

User Guide

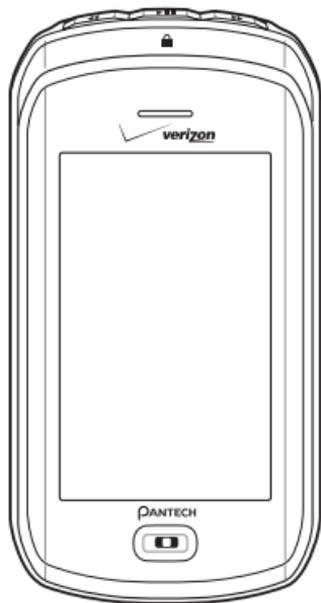
PANTECH | CRUX™

 **verizon**wireless

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User Guide

CRUX™



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BEFORE USING 1

This chapter provides important information about using the

CRUX™ including:

INSIDE THE PACKAGE

HANSET DESCRIPTIONS

KEY DESCRIPTIONS

DISPLAY INDICATORS

INSTALLING THE BATTERY

REMOVING THE BATTERY

CHARGING THE BATTERY

BATTERY HANDLING INFORMATION



INSIDE THE PACKAGE

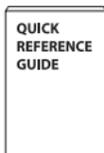
This package should include all items pictured below. If any are missing or different, immediately contact the retailer where you purchased the phone.



Handset



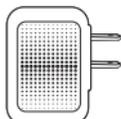
Standard Battery

Pre-installed 1 GB
microSD™ Card

QRG

Product Safety &
Warranty Guide

Battery Cover

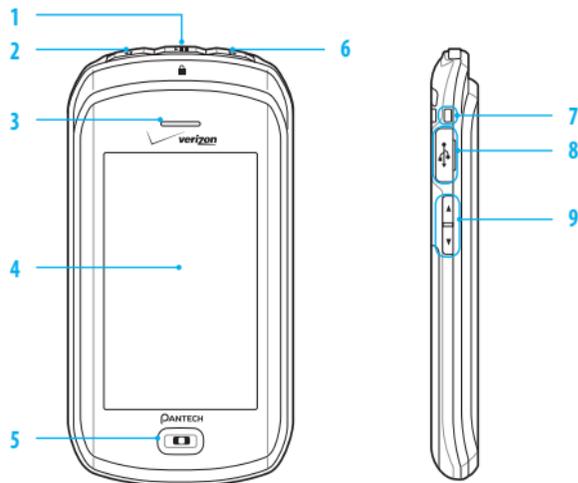


Wall/USB Adapter



USB Cable

HANDSET DESCRIPTIONS



1. Play/Pause Key
2. Rewind Key
3. Earpiece
4. Touch Screen
5. Home Key

6. Fast-Forward Key
7. Wrist Strap Eyelet
8. Charging/Data Jack
9. Volume Keys

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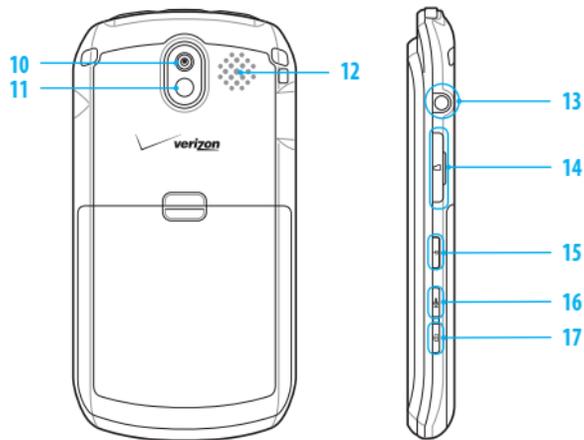
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HANDSET DESCRIPTIONS



- 10. Camera Lens
- 11. Self-Portrait Mirror
- 12. Speaker
- 13. Headset Jack

- 14. MicroSD™ Card Slot
- 15. Power Key
- 16. Voice Commands Key
- 17. Camera Key

KEY DESCRIPTIONS

The following list correlates to the previous page's phone illustration.

1. **Play/Pause Key:** With the phone in either the locked or unlocked position, press and hold the Play/Pause Key  to launch the music player. In the music player, press to start or pause playback.
2. **Rewind Key:** During playback, press to skip backward. Press and hold to scan backward in a file.
3. **Earpiece:** Allows you to hear the other caller.
4. **Touch Screen:** Tap the touch screen to access the menu or perform phone functions.
5. **Home Key:** Tap to return to the Menu mode screen. In Menu mode, tap to view the touch screen in 3D view. Tap and hold to open the Task Manager screen.
6. **Fast-Forward Key:** During playback, press to skip forward. Press and hold to scan forward in a file.
7. **Wrist Strap Eyelet:** Accessory eyelet (attach optional straps and lanyards – purchased separately).
8. **Charging/Data Jack:** Connects to the USB cable for data transferring or charging when attached to the Wall/USB Adapter.
9. **Volume Keys:** With the phone in the unlocked position, from the Menu mode, press to adjust the phone's volume. When a call comes in, press to silence the call ringtone. During a call, press to adjust the earpiece volume. In Speakerphone mode, press to adjust the speaker volume. During playback, press to adjust the music volume.
10. **Camera Lens:** The lens of your built-in camera and camcorder.

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- 11. Self-Portrait Mirror:** Displays your reflection when taking photos or recording videos.
- 12. Speaker:** Music, ringtones, and sounds are played through the external speaker.
- 13. Headset Jack:** Plug in an optional headset for convenient handsfree conversations or for listening to music.
- 14. microSD™ Card Slot:** A 1 GB microSD™ card is pre-installed to increase memory capacity.
- 15. Power Key:** Press and hold to turn the phone on or off.
- 16. Voice Commands Key:** With the phone in the unlocked position, from the Menu mode, press to launch the Voice Commands menu.
- 17. Camera Key:** With the phone in the unlocked position, from the Menu mode, press to turn on the camera; Press and hold to turn on the camcorder. In Camera mode, press to take a photo, or in Camcorder mode, press to record a video.

DISPLAY INDICATORS

Icon	Icon Descriptions
	D Signal Strength: Indicates your phone is in the digital network. More bars indicate a stronger signal.
	3G Signal Strength: Indicates your phone is in the EVDO (3G) network. More bars indicate a stronger signal.
	1X Signal Strength: Indicates your phone is in the CDMA 1X network. More bars indicate a stronger signal.
	3G & 1X Signal Strength: Indicates your phone is in the EVDO (3G) and CDMA 1X networks. More bars indicate a stronger signal.

Icon	Icon Descriptions
	3G & D Signal Strength: Indicates your phone is in the EVDO (3G) and digital networks. More bars indicate a stronger signal.
	Airplane Mode: Transmitting and receiving information is restricted.
	Music Only Mode: Indicates your phone is in Music Only mode.
	Roaming: Indicates your phone is outside of the home service area.
	Femto Cell: Indicates that this area has enhanced service coverage indoors.
	SSL (Secured Socket Layer): Indicates that secure communication between client and server has been established during data communication using encryption.
	Voice Privacy: Indicates Voice Privacy mode is active.
	Data Call: Indicates a data call is in progress.
	Dormant: Indicates phone is in a dormant state during a data call. Phone reverts to Dormant mode when there hasn't been activity on a page for some time - the connection is still active and you can make and receive calls.
	No Service: Indicates no phone service is available.
	TTY: Indicates TTY mode is active.
	Voice Call: Indicates a voice call is in progress.
	E911: Location (GPS) service is set to E911 Only for emergency calls.
	Location On: Location (GPS) service is set to Full Detection.
	Bluetooth: Indicates Bluetooth® mode.

Icon	Icon Descriptions
	Bluetooth Active: Indicates Bluetooth Active mode.
	Bluetooth Connected: Indicates a Bluetooth device is paired with your phone.
	Music Pause Mode: Indicates that music playback is paused.
	Music Playing Mode: Indicates that music is playing.
	AVR Active: Advanced Voice Command feature is active.
	AVR Listening: Indicates your phone recognizes your voice command.
	Battery Level: Indicates the battery charging level - the more bars, the stronger the power.
	All Sounds Off: Indicates phone sounds are set to off.
	Alarm Only: Indicates the phone will alert you only with an alarm tone.
	Vibrate On: Indicates Alert Vibrate for incoming calls is set to on.
	Voicemail: Indicates you have a new voicemail.
	Alert Voicemail: Indicates a new voicemail.
	Missed Calls: Indicates you have missed calls.
	Message: Indicates you have new messages.
	Alert Messages: Indicates a new message.
	Calendar Appointment: Indicates an alarm for your appointment is active.

Icon	Icon Descriptions
	Alarm On: Indicates an alarm is set.
	Speakerphone: Indicates Speakerphone mode is active.

Recent Call Icons	
	Dialed Call
	Missed Call
	Received Call

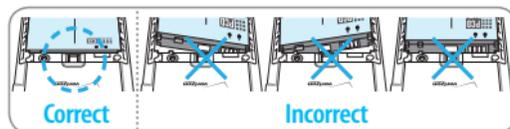
New Contact Icons	
	Mobile
	Mobile 2
	Home
	Business
	Fax
	Personal E-mail
	Business E-mail
	IM Screen Name
	AIM
	Yahoo!
	WL Messenger
	Address
	Ringtone
	Group
	Speed Dial
	Title
	Company
	Birthday
	Note

Message Icons

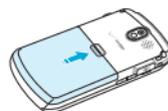
 Unread Message	 Received Read Message
 Read Message	 Multiple Message Sent
 Unread EMS	 Message Delivered
 Read EMS	 Multiple Message Delivered
 Unread MMS Notification	 Sent Message Delivery Failed
 Read MMS Notification	 Multiple Message Failed
 Unread Corrupt Message	 Pending Message Send
 Read Corrupt Message	 Multiple Message Pending
 Unread Wap Push	 Incomplete Delivery
 Read Wap Push	 Multiple Message Incomplete
 Unread MMS	 Text Message Draft
 Read MMS	 Picture Message Draft
 Sent Message	 Priority
 Received Unread Message	 Message Locked

INSTALLING THE BATTERY

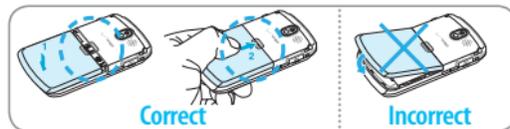
- Slide the battery into the slot (1) by aligning the contacts and push down (2) until you hear the "click."



- Align the cover tabs with the slots on the back of the phone and slide the battery cover onto the unit until it snaps into place.



 If the battery is not correctly placed in the compartment, the phone will not turn on and/or the battery may detach during use.



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REMOVING THE BATTERY

1. To remove the battery cover, insert your finger tip into the slot (1), then push down on the top of the battery cover and slide it off (2).
2. Insert your fingernail into the slot and lift the battery from the compartment.
3. Align the cover tabs with the slots on the back of the phone and slide the battery cover onto the unit until it snaps into place.

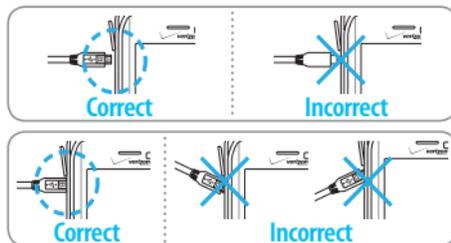


CHARGING THE BATTERY

1. Connect the USB data cable into the cableless wall adapter.
2. Plug the USB data cable into the phone's charging/data jack (making sure to align the connector as it appears in the image to the right) and the wall adapter end into an electrical outlet.



If the battery connector is not properly aligned, damage could occur to the charging connector and the phone may not be charged.



3. To remove the wall charger, unplug the USB data cable from the phone's charging/data jack.

- When you charge the battery with the handset powered off, you will see a charging status screen. After charging is completed, the Charge Complete message appears and you cannot operate the phone until it is powered on. To turn your phone on, press and hold the Power Key  until your display turns on.
- The battery may not be fully charged at the time of purchase. Fully charge the battery before using.
- It is more efficient to charge the battery with the handset powered off.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.



BATTERY HANDLING INFORMATION

DO'S

- Only use the battery and charger approved for use with the CRUX™.
- Only use the battery for the system for which it is specified.
- Only use or replace the battery with a charging system or another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Only use the battery for its original purpose. As an improper battery use may result in a fire, explosion or other hazard.
- Try to keep batteries in a temperature between 41°F (5°C) and 95°F (35°C). If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly and promptly dispose of the battery according to local laws.
- Battery usage by children should be supervised.

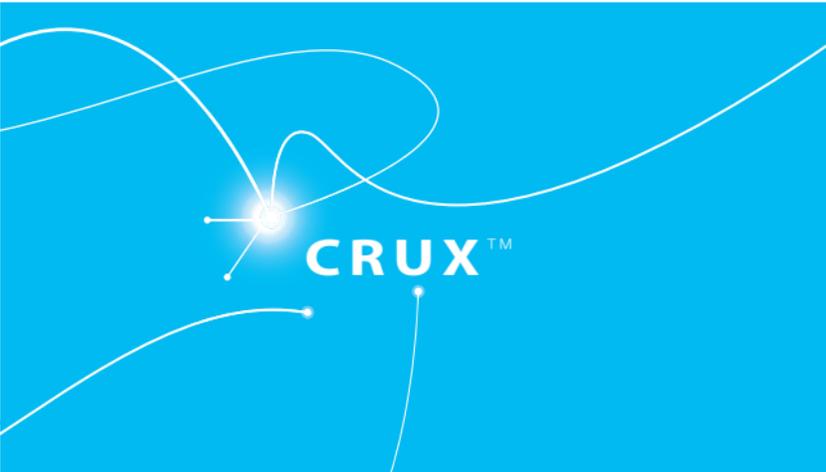
DON'TS

- Don't attempt to disassemble or open the battery – it is a sealed unit with no serviceable parts.
- Don't crush, bend or deform, puncture or shred the battery.
- Don't drop the phone or battery. If the phone or battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- Don't leave the battery in extremely hot or cold temperatures. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, expose to fire, explosion or other hazard.
- Don't accidentally short-circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't short-circuit a battery or allow metallic conductive objects to contact battery terminals.
- Don't dispose of the battery by placing into a fire.

BASIC OPERATION 2

This chapter addresses and explains the basic features for CRUX™ including:

- TURNING THE PHONE ON AND OFF
- USING THE TOUCH SCREEN
- USING THE HOME SCREEN
- LOCKING OR UNLOCKING THE TOUCH SCREEN AND KEYS
- USING THE TASK MANAGER
- MENU SUMMARY
- MAKING A CALL
- ANSWERING A CALL
- MISSED CALL NOTIFICATION
- WAIT/PAUSE FEATURE
- MAKING AN INTERNATIONAL CALL
- 3-WAY CALLING
- CALL WAITING FUNCTION
- CALLING A NUMBER FROM CONTACTS
- ADJUSTING THE MASTER VOLUME
- SPEAKERPHONE MODE
- AVAILABLE OPTIONS DURING A CALL
- MAKING AN EMERGENCY CALL
- USING THE DIRECTORY SERVICE



CRUX™

TURNING THE PHONE ON AND OFF

TURNING THE PHONE ON

1. Press and hold the Power Key  until the touch screen turns on.
2. Enter your 4-digit lock code if the phone is locked.

 The default lock code is the last 4 digits of your phone number.

TURNING THE PHONE OFF

1. When the phone is closed, slide the phone up to unlock the keys.
2. Press and hold the Power Key  until the touch screen turns off.

-  • Immediately change or recharge the battery when “BATTERY LOW” appears on the display. Memory may possibly be damaged if the phone turns off due to the battery completely draining.
- Turn the phone off before removing or replacing the battery. If the phone is on, unsaved data may be lost.

USING THE TOUCH SCREEN

The touch screen of your phone allows you to select items and perform functions. The following finger actions help you easily understand how to use the touch screen.

CAUTION:

- Do not use sharp tools to avoid scratching the touch screen.
- Do not allow the touch screen to come in contact with water or chemicals. The touch screen may malfunction in humid conditions or in chemicals.
- Do not sit on your phone to prevent from damaging the touch screen.

Tap: Tap once to select or access a menu or an option.



Tap and hold: Tap an item and hold it for more than 2 seconds to perform functions.



Scroll: Tap and drag your finger up, down, left, or right to scroll through items on lists.



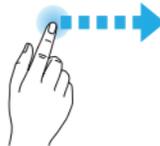
Drag: Tap and hold your finger on an item and move your finger without losing contact with the screen to move the item.



Drag and drop: Tap and drag your finger on an item to select and move it, then lift your finger to drop the item into place.



Swipe: Tap and drag your finger repeatedly to quickly move to a list or screen.



USING THE HOME SCREEN

Your phone's home screen has three different screens which allow you to access main menus, widgets, and multimedia shortcuts.

To access the home screen in 3D view, slide the phone up and tap the Home Key. To access another screen, swipe left or right and then tap the desired screen.



ACCESSING MENUS

1. To access Menu mode from the idle screen, slide the phone up. The Menu mode screen automatically appears.
2. Tap the menu you want.
3. Tap **Back** to move back one level. Tap the Home Key to return to the Menu mode screen.

USING WIDGETS

With widgets, you can conveniently use web services, such as social network and messenger services.

1. Slide the phone up.
2. From the Menu mode screen, swipe the screen left to move to the widget screen.
3. Drag your finger up or down to view more widgets.
4. Tap the widget icon you want to access.
5. When the phone is connected to the corresponding website, follow the on-screen prompts.

 For service availability, contact your service provider.

USING MULTIMEDIA SHORTCUTS

Multimedia shortcuts allow you to quickly access your favorite items such as music, pictures, and videos.

ACCESSING A SHORTCUT ITEM

1. Slide the phone up.
2. From the Menu mode screen, swipe the screen right to move to the multimedia shortcut screen.
3. Tap the item you want to access.

ADDING AN ITEM

1. From the multimedia shortcut screen, tap **+/-**.
2. Tap **Add** and then tap either **My Music**, **My Pictures**, or **My Videos**.
3. Select an item and tap **Add**. The selected item is shown on the screen.
4. Tap **Done**.

DELETING AN ITEM

1. From the multimedia shortcut screen, tap .
2. Tap **Remove**.
3. Tap the item to delete and then tap **Remove**.
4. Tap **Yes** to confirm.

LOCKING OR UNLOCKING THE TOUCH SCREEN AND KEYS

When your phone is closed or idle, the touch screen and keys are automatically locked to prevent any unwanted phone operations. To unlock, slide the phone up. Or, press one of the side keys and tap **Touch to Unlock** if the phone is open and idle.

USING THE TASK MANAGER

You can manage multiple applications that are running at the same time. Switch to other applications without closing the current application you are using.

1. Slide the phone up.
2. Tap and hold the Home Key to open the Task Manager screen. The list of applications appears.
3. Use the following functions to control applications:
 - To switch to another application, tap the desired application from the list.
 - To close all applications, tap **Close All**.
 - To return to Menu mode, tap **Main Menu**.
 - To return to the previous menu, tap **Back**.

MENU SUMMARY

Main Menu	2 ND Depth	3 RD Depth
1. My Verizon		
2. Tools	1. Voice Commands 2. Calculator 3. Tip Calculator 4. Calendar 5. Alarm Clock 6. Stop Watch 7. World Clock 8. Unit Converter 9. Notepad 10. USB Mass Storage	
3. Settings	1. Airplane Mode 2. Bluetooth 3. Music Only Mode 4. Bluetooth Settings 5. Sound Settings	1. Master Volume 2. Ringtones 3. Caller ID Readout 4. Emergency Tone 5. Alert Vibrate 6. Alerts Reminder 7. Power On/Off Sound 8. Open/Close Sound 9. Service Alerts 10. Touch Audio Feedback 11. Digit Dial Readout 12. Device Connect

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Main Menu	2 nd Depth	3 rd Depth
	6. Display Settings	1. Wallpaper 2. Banners 3. Main Menu Settings 4. Backlight Timer 5. Backlight Brightness 6. Display Theme 7. Font Type 8. Dial Fonts 9. Menu Font Size 10. Clock Format
	7. Touch Settings	1. Touch Vibrate
	8. Phone Settings	1. Voice Commands Settings 2. Language 3. Location 4. Current Country 5. Security 6. System Select 7. NAM Select
	9. Call Settings	1. Auto Answer with Handsfree 2. Slide Close to End Call 3. Auto Retry 4. TTY Mode 5. Voice Privacy 6. DTMF Tones 7. Assisted Dialing
	10. Memory	1. Save Options 2. Phone Memory 3. Card Memory
	11. USB Mode	1. USB Mode set to 2. Change to
	12. Phone Info	1. My Number 2. SW / HW Version 3. Icon Glossary 4. Software Update 5. Operating System

Main Menu	2 nd Depth	3 rd Depth
	1. Search	
	2. Music & Tones	1. V Cast Music/Rhapsody 2. Shop Ringtones 3. Shop Ringback Tones 4. My Ringtones 5. My Music 6. My Sounds 7. Sync Music
4. Media Center	3. Picture & Video	1. V CAST Videos 2. Shop Pictures 3. My Pictures 4. My Videos 5. Take Picture 6. Record Video 7. Online Album
	4. Games	
	5. Browser	
	6. Browse & Download	
	7. Extras	
	5. Browser	
	6. Directions	
	7. Games	
	8. Search	
	9. V CAST Videos	

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Main Menu	2 nd Depth	3 rd Depth
10. My Music	1. Play All Songs	
	2. All Songs	
	3. Playlists	
	4. Artists	
	5. Genres	
	6. Albums	
	7. Manage My Music	1. Move To Card 2. Move To Phone 3. Erase
	8. Sync Music	
	9. Music Alert	
	10. Sound Effect	
	11. Airplane Mode	
	12. Music Only Mode	
11. Message		
12. Email & IM	1. Mobile Email	
	2. Mobile Web Mail	
	3. Mobile IM	

MAKING A CALL

- Slide the phone up and tap **Keypad** .
- Enter an area code and a phone number.
 - To erase one digit at a time, tap .
 - To erase the entire number, tap and hold .
- Tap **Call** to dial the number.
To access menus during a call, tap the Home Key.
- To end the call, tap **END** or slide the phone down.



If **Auto Retry** is set to on, the phone will automatically re-dial the number (Refer to page 74).

You can also make a call by using the Voice Commands feature. Please refer to page 50 for more details.

ANSWERING A CALL

- When a call comes in, slide the phone up and tap **ANSWER**.
 - To ignore the incoming call, tap **IGNORE**.
 - To silence the call ringtone, tap **QUIET**.
- To end the call, tap **END** or slide the phone down.



If **Auto Answer with Handsfree** is set to on, an incoming call is answered automatically after about a few seconds (Refer to page 74).

MISSED CALL NOTIFICATION

When an incoming call is not answered, the missed call icon appears on the touch screen.

TO DISPLAY THE MISSED CALL ENTRY FROM THE NOTIFICATION SCREEN:

- Tap **View Now**.
- To check the missed call notification at another time, tap **View Later**.

TO DISPLAY A MISSED CALL ENTRY FROM RECENT CALLS:

1. Slide the phone up and tap **Recent Calls** .
2. Tap **Missed Calls**.
3. Select an entry from the list.
4. To dial the phone number, tap **Call**. Or, to send a Text, Picture, Video or Voice Message to the caller, tap **Send Message**.

WAIT/PAUSE FEATURE

Pauses are used for automated systems (i.e., voice mail or calling cards). Insert a pause after a phone number and then enter another group of numbers. The second set of numbers is dialed automatically after the pause. This feature is useful for dialing into systems that require a code.

Wait (W)

The phone pauses dialing and resumes dialing the next number when you tap **SEND**.

1. Slide the phone up and tap **Keypad** .
2. Enter a phone number.
3. Tap **More** and then tap **Wait**.
4. Enter the additional number(s).
5. Tap **Call** to dial or **Save** to save the number.

2-Sec Pause (P)

The phone waits 2 seconds before sending the next string of digits automatically.

1. Slide the phone up and tap **Keypad** .
2. Enter a phone number.
3. Tap **More** and then tap **2-Sec Pause**.
4. Enter additional number(s) (pin number or credit card number).
5. Tap **Call** to dial or **Save** to save the number.

MAKING AN INTERNATIONAL CALL

1. Slide the phone up and tap **Keypad** .
2. Tap and hold ***+**. The + required for international calls appears.
3. Enter the country code, area code, and phone number, then tap **Call**.
4. To end the call, tap **END**.

3-WAY CALLING

With 3-Way Calling, you can talk to two people at the same time. When using this feature, normal airtime rates will be applied for each of the two calls.

1. Slide the phone up and tap **Keypad** .
2. Enter a phone number and tap **Call**.
3. Once you have established the connection, tap **Keypad** and enter the second phone number you wish to call, and tap **Call**.
4. When you're connected to the second party, tap **MERGE CALLS** to begin your 3-way call.
5. To end the last dialed call, tap **END LAST DIALED CALL**.
To end all calls, tap **END ALL CALLS**.



If one of the people you called hangs up during your call, you and the remaining caller stay connected. If you initiated the call and are the first to hang up, all three calls will be disconnected.

CALL WAITING FUNCTION

If you are on a call and you receive another incoming call, you will hear a beep and the caller's phone number will appear on the display. With Call Waiting, you may put the active call on hold while you answer the other incoming call.

1. To answer another call while on the phone, tap **HOLD CALL AND ANSWER INCOMING**.
This places the first call on hold.

2. To switch back to the first caller, tap **SWAP CALLS**.
3. To end all calls, tap **END ALL CALLS**.

CALLING A NUMBER FROM CONTACTS

1. With the phone in the unlocked position, from the Menu mode, tap **Contacts** .
2. Tap the first letter of the contact name you want, or tap  and scroll to a contact from the contact list.
3. Tap  to dial the contact number.

 If the contact has more than two numbers, the default number of the contact will be dialed.

ADJUSTING THE MASTER VOLUME

1. With the phone in the unlocked position, from the Menu mode, press the Volume Keys up  or down .
2. Tap  or , or press the Volume Keys up  or down  to adjust the volume level.
To hear the phone's volume, tap **Play** on the Master Volume menu.
3. Tap **Set** to save the setting.

 Press the Volume Keys up or down  /  to adjust the earpiece volume during a call.

SPEAKERPHONE MODE

The Speakerphone feature lets you hear audio through the phone speaker and talk without holding the phone.

1. During a call, tap **Speaker** to activate Speakerphone mode.
2. To switch back to Phone mode, tap **Speaker** again.

AVAILABLE OPTIONS DURING A CALL

During a phone call, you can access the following options:

- **Mute:** Allows you to turn off your phone's microphone so that the other person cannot hear you.
- **Speaker:** Allows you to talk and hear through the phone's speaker.
- **Noise Free:** Removes noise from your background so that the other person can hear you more clearly.
- **Bluetooth:** Allows you to use the Bluetooth feature.
- **Keypad:** Opens the dial screen.

MAKING AN EMERGENCY CALL

The E911 feature automatically places the phone in Emergency call mode when you dial the preprogrammed emergency number, "911." It also operates in Lock mode and out of the service area.

E911 IN LOCK MODE

When you lock the phone by using the **Lock Phone Now** setting (refer to page 72) or you are out of the service area, to make an emergency call:

1. When "**Enter Code**" appears, tap **E911**.
2. Tap **Yes** to dial.

The phone maintains Emergency mode for about 5 minutes. When the call ends, the phone returns to Lock mode.

E911 USING ANY AVAILABLE SYSTEM

To make an emergency call using any available system:

1. With the phone in the unlocked position, from the Menu mode, tap **Keypad** .
2. Enter "**911**" and tap **Call**.
3. The phone will stay in Emergency mode for about 5 minutes. While the phone is in Emergency mode you can receive an incoming call from any available system or you can make outgoing calls even in Emergency callback mode.

USING THE DIRECTORY SERVICE

You can make a call to the directory service to find out your local numbers.

1. With the phone in the unlocked position, from the Menu mode, tap **Keypad** .
2. Enter “411” and tap **Call**.

MEMORY FUNCTION 3

This chapter addresses memory functions including:

ENTERING TEXT

STORING A PHONE NUMBER

EDITING CONTACT ENTRIES

DEFAULT NUMBERS

BACKUP ASSISTANT™

SENDING A NAME CARD

SPEED DIALING

A graphic for the CRUX logo on a blue background. It features a central glowing white dot with several thin white lines radiating outwards. Some of these lines curve and loop back towards the center, creating a dynamic, abstract shape. The word "CRUX" is written in a white, bold, sans-serif font to the right of the central dot, with a small "TM" trademark symbol to its upper right.

CRUX™

ENTERING TEXT

Learn to enter text by using the virtual keypad on your touch screen.

CHANGING THE TEXT INPUT MODE

1. In text entry mode, tap the **Add Text** field to display the virtual keypad.
2. Change the text input mode - see the chart below.
3. Tap the virtual keys to enter text.



Number	Function
1	Switches to T9 Word or ABC mode. When T9 Word mode is activated, the key turns to show the line in a red color.
2	Switches to Number mode.
3	Inserts a space.
4	Changes case.
5	Switches to Symbol mode.
6	Clears the entered characters.

ENTERING TEXT USING INPUT MODES

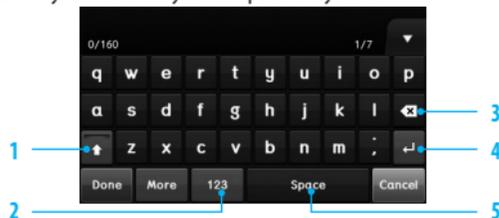
When entering text with the keypad, you can use the following modes:

Mode	Function
T9 Word	1. Tap the appropriate virtual keys to enter an entire word. 2. When the word displays correctly, tap Space to insert a space and enter the next word. If the correct word does not display, tap the pop-up window and select an alternate word.
abc	Tap the appropriate virtual keys until the character you want appears on the display.
123	Tap the appropriate virtual keys to enter a number.
Symbol	Tap the appropriate virtual keys to enter a symbol.

ENTERING TEXT USING THE QWERTY KEYBOARD

You can enter text by using the virtual QWERTY Keyboard.

1. Tap the **Add Text** field.
2. Rotate the phone counter-clockwise to landscape view. The QWERTY Keyboard screen appears.
3. Enter text as you would use your computer's keyboard.



Number	Function
1	Changes case.
2	Switches to Number mode.
3	Clears the entered characters.
4	Starts a new line.
5	Inserts a space.

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STORING A PHONE NUMBER

The Contact list stores up to 1000 entries.

ADDING A NEW CONTACT

1. With the phone in the unlocked position, from the Menu mode, tap **Keypad**



2. Enter a phone number and tap **Save**.

3. Tap **Add New Contact**.

 Use **Update Existing** to add another phone number to a contact that is already stored in memory.

4. Select a number type (**Mobile/Home/Business/Mobile 2/Fax**).
5. Tap the **Name** field.
6. Enter the contact name and tap **Done**.
7. Enter additional contact information, if necessary.
8. Tap **Save** to save the contact.
9. The contact number re-appears on the screen, tap **Call** to dial the number.

EDITING A CONTACT

Once the basic phone number and name information is stored in your Contacts, you can edit the contact information.

1. Slide the phone up and tap **Contacts** 
2. Tap the desired contact and then tap **Edit**.
3. Tap the information field you want to edit.
4. Change the data as necessary, then tap **Save** to update the contact entry.

ADDING OR CHANGING GROUPS

To organize your Contacts into groups:

1. Slide the phone up and tap **Contacts** 
2. Tap the desired contact and then tap **Edit**.
3. Scroll down and tap the **Group** field.

4. Tap a group and then tap **Done**. To create a new group, tap **New Group** and then enter the name and tap **Done**.
5. Tap **Save** to update the contact entry.

CHANGING THE CALL RINGTONE

To identify who is calling by setting different ringtones for different phone numbers in your Contacts:

1. Slide the phone up and tap **Contacts** 
2. Tap the desired contact and then tap **Edit**.
3. Scroll down and tap the **Ringtone** field.
4. Select a ringtone by tapping the ringtone name in the **Change to** field.
5. Tap **Save** to update the contact entry.

SETTING A PICTURE CALLER ID

Picture caller ID displays the picture of the person calling when your phone rings. If the caller's identity is stored with a picture in Contacts, the name and picture appear on the screen.

To select a picture to assign to a contact:

1. Slide the phone up and tap **Contacts** 
2. Tap the desired contact and then tap **Edit**.
3. Tap the picture frame on the **Name** field.
4. Tap a picture.
5. Tap **Set Picture ID**.
6. Tap **Save** to update the contact entry.

ADDING AN EMAIL ADDRESS

To add an email address to a contact entry:

1. Slide the phone up and tap **Contacts** 
2. Tap the desired contact and then tap **Edit**.
3. Scroll down, and tap **Personal Email** or **Business Email**.

4. Enter an email address and tap **Done**.
5. Tap **Save** to update the contact entry.

ADDING A SPEED DIAL ENTRY

To add an entry to speed dial:

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.
3. Scroll down and tap the **Speed Dials** field.
4. Tap the contact's number you would like to assign, if applicable.
5. Enter the speed dial number you want to set and tap the entered number from the list.

 You can also tap  and select a speed dial number directly from the list.

6. Tap **Save** update the contact entry.

EDITING CONTACT ENTRIES

You can edit a contact by changing or deleting a phone number, name, and speed dial number.

EDITING A PHONE NUMBER FROM THE DIAL SCREEN

1. Slide the phone up and tap **Keypad** .
2. Enter the phone number you want to save (up to 32 digits) and tap **Save**.
3. Tap **Update Existing**.
4. Tap an existing contact entry.
5. Tap a number type.
6. If the number is already assigned to the type you selected, tap **Yes** to overwrite the existing entry.

ADDING A PHONE NUMBER FROM THE CONTACT LIST

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.

3. Tap the number type you want to add.
4. Enter a phone number and tap **Done**.
5. Tap **Save** to update the contact entry.

EDITING A STORED PHONE NUMBER

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.
3. Tap the number type you want to edit.
4. Tap  and enter a new number, and tap **Done**.
5. Tap **Save** to update the contact entry.

EDITING A STORED NAME

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.
3. Tap the **Name** field.
4. Tap  and enter a new name, and tap **Done**.
5. Tap **Save** to update the contact entry.

DELETING A PHONE NUMBER FROM A CONTACT

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.
3. Select a number type to be deleted.
4. Tap and hold  and tap **Done** to delete the number.
5. Tap **Save** to update the contact entry.

DELETING A CONTACT ENTRY

1. Slide the phone up and tap **Contacts** .
2. Tap the contact to be deleted.
3. Tap **Erase** and then tap **Yes**.

DELETING A SPEED DIAL NUMBER

1. Slide the phone up and tap **Contacts** .
2. Tap **More** and then tap **Speed Dials**.
3. Tap the speed dial number to be deleted.
4. Tap **Remove** and then tap **Yes**.

DEFAULT NUMBERS

You can set each default number for your contacts.

SETTING THE DEFAULT NUMBER

1. Slide the phone up and tap **Contacts** .
2. Tap the desired contact and then tap **Edit**.
3. Scroll down and tap the **Default Number** field.
4. From the **Change to** field, tap the phone number to set as the default number.
5. Tap **Save** to update the contact entry.

BACKUP ASSISTANT™

Backup Assistant™ is a wireless service that stores a copy of your Contact list to a secured website.

1. Slide the phone up and tap **Contacts** .
2. Tap **More** and then tap **Backup Assistant**.
3. Follow the on-screen prompts.

SENDING A NAME CARD

You can send a contact as the name card via message or Bluetooth.

1. Slide the phone up and tap **Contacts** .
2. Tap **More** and then tap **Send Name Card**.

3. Select one of the following sending options:

- **Send via Bluetooth:** Allows you to send a name card via Bluetooth.
- **Send via Text Msg:** Allows you to send a name card via Text Message.
- **Send via Picture Msg:** Allows you to send a name card via Picture Message.
- **Send via Video Msg:** Allows you to send a name card via Video Message.
- **Send via Voice Msg:** Allows you to send a name card via Voice Message.

4. Tap the desired contact(s) and then tap **Done**.

5. Tap **Add Recipient** and select one of the following sending options:

- **From Contacts**
- **From Favorites**
- **From Recent Calls**
- **Enter Number**
- **Groups**

6. Tap the desired recipient(s) and then tap **Done**.

7. Tap **Send** to send the contact as a name card via the selected sending option.

SPEED DIALING

Ideal for frequently dialed numbers, this feature allows contact entries to be dialed via the virtual keypad with only one or two key tapping.

To open the dial screen from Menu mode, tap **Keypad** .

- **2-9:** Tap and hold the number you wish to connect to for more than 1 second. **1** is already assigned for your voicemail box.
- **10-94:** Tap the first digit and tap and hold the second digit of the number to dial.
- **95, 96, 97, 98 and 99:** Speed Dial entries **95 (#Warranty Center)**, **96 (#DATA)**, **97 (#BAL)**, **98 (#MIN)** and **99 (#PMT)** are already assigned for Verizon Wireless Account Information.

MENU FUNCTION 4

This chapter addresses accessing the menu and using its functions and features to customize your CRUX™.

RECENT CALLS

MY VERIZON

TOOLS

VOICE COMMANDS
CALCULATOR
TIP CALCULATOR
CALENDAR
ALARM CLOCK
STOP WATCH
WORLD CLOCK
UNIT CONVERTER
NOTEPAD
USB MASS STORAGE

SETTINGS

AIRPLANE MODE
MUSIC ONLY MODE
BLUETOOTH
SOUND SETTINGS
DISPLAY SETTINGS
TOUCH SETTINGS
PHONE SETTINGS
CALL SETTINGS
MEMORY
USB MODE
PHONE INFO
EASY SETUP



CRUX™

RECENT CALLS

The **Recent Calls** menu is a list of the recent phone numbers or Contact entries for calls you placed, accepted, missed, or blocked. It is continually updated as new numbers are added to the beginning of the list and the oldest entries are removed from the bottom of the list.

MISSED CALLS

Displays information about the most recently missed calls. Place a call to a missed call by simply tapping .

1. Slide the phone up, tap **Recent Calls**  and then tap **Missed Calls**.
2. Tap the desired call log to view details or tap **More** to access the options by referring to **All Calls**.
3. Tap **Call** to dial, or tap **Send Message** to send a message to the number. If the number is not stored in Contacts, tap **Save to Contacts** to save the number.

RECEIVED CALLS

Displays information about the most recently received calls. Place a call to a received call by simply tapping .

1. Slide the phone up, tap **Recent Calls**  and then tap **Received Calls**.
2. Tap the desired call log to view details or tap **More** to access the options by referring to **All Calls**.
3. Tap **Call** to dial, or tap **Send Message** to send a message to the number. If the number is not stored in Contacts, tap **Save to Contacts** to save the number.

DIALED CALLS

Displays information about the most recently dialed numbers. Place a call to a dialed call by simply tapping .

1. Slide the phone up, tap **Recent Calls**  and then tap **Dialed Calls**.

2. Tap the desired call log to view details or tap **More** to access additional options.
3. Tap **Call** to dial, or tap **Send Message** to send a message to the number. If the number is not stored in Contacts, tap **Save to Contacts** to save the number.

BLOCKED CALLS

This menu appears only when incoming calls are restricted in the **Restrictions** menu.

1. Slide the phone up and tap **Recent Calls** .
2. Tap **More** and then tap **Blocked Calls**.
3. Enter the 4-digit lock code.

 The default lock code is the last 4 digits of your phone number.

4. Select a call log to view details.

ALL CALLS

Displays information about all of the most recent calls you have received, dialed, and missed.

1. Slide the phone up, tap **Recent Calls** . The **All Calls** log is displayed.
2. Tap the desired call log to view details or tap **More** to access the following options:
 - **Sort by**: Changes the sort order of call logs.
 - **Erase**: Deletes a call log or multiple call logs.
 - **Erase All**: Deletes all call logs.
 - **View Timers**: Allows you to view the call timers by call type.
 - **Blocked Calls**: Allows you to view blocked calls, if applicable.
3. From the desired call log, tap **Call** to dial, or tap **Send Message** to send a message to the number. If the number is not stored in Contacts, tap **Save to Contacts** to save the number.

MY VERIZON

My Verizon allows you to check your account information and get available Verizon services.

1. Slide the phone up and tap **My Verizon**.
2. When the phone is connected to the My Verizon page, follow the on-screen prompts.

VOICE COMMANDS

Your phone is equipped with an Advanced Voice Commands (AVC) feature. This feature allows you to make calls or use the phone's functions by simply using your voice. All you have to do is talk into the phone and then the phone will recognize your voice and perform tasks by itself.

1. Slide the phone up, tap **Tools** and then tap **Voice Commands**.

 **Shortcut**: Slide the phone up and press the Voice Commands Key .

2. The phone displays the Voice Commands menu and prompts you to say the name of the command you want to use. To complete your task, simply follow the voice prompts. You can speak the name of the command after you hear a beep.
 3. Say or select one of the following commands;
Call <Name or #> / **Send <MSG Type>** / **Go To <Menu>** / **Check <Item>**
/ Contact <Name> / **Search / Redial / Play <Playlist>** / **My Verizon / Help**
-  To view information about each option, tap **Info**. Tap **Settings** to access voice commands settings. Please refer to [page 68](#) for more details on **Voice Commands Settings**.
4. When it recognizes one of these commands, the phone launches the associated application. If the phone does not hear a command within a specified time, AVC mode will turn itself off.

CALL <NAME OR #>

Use the Call command to voice dial a name from your Contacts or a phone number. When dialing a number, pronounce each digit, but do not pause noticeably between the digits.

1. You will hear **"Please say a command"** and the Voice Commands menu will be displayed.
2. If calling a contact from your Contact List, say **"Call <Name>."** Your phone will ask you to confirm the name you said. Say **"Yes"** if it was repeated correctly. That phone number will be dialed. If there is more than one number saved for that contact, you will be asked to confirm which number to dial.

Examples: Call John Work

SEND <MSG TYPE>

Use the Send command to send a text or other type of message to a specified name or number.

1. You will hear **"Please say a command"** and the Voice Commands menu will be displayed.
2. Say **"Send"** followed immediately by one of the following items:
Text / Picture / Video / Voice
3. Say the desired contact or group name, or the number of the message recipient.

GO TO <MENU>

Use the Go To command to open an application on your phone. You can say **"Go To"** by itself and be prompted to say the application name, or you can skip the prompt by saying **"Go To"** followed by the application name.

1. You will hear **"Please say a command"** and the Voice Commands menu will be displayed.
2. Say **"Go To"** followed immediately by one of the menus in the list.
 Examples: "Go To Calendar". If no menu option is stated, a list of options will be provided.

CHECK <ITEM>

The Check command lets you check status information for your phone. You can say “Check” or “Check Status” to see and hear all status information.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Check” followed immediately by one of the following items:
Status / Voicemail / Messages / Missed Calls / Time / Signal Strength / Battery Level / Volume / Balance / Minutes / Payment / My Number

CONTACT <NAME>

Use the Contact command to retrieve and display information for any name stored in your Contact List.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Contact <Name>” to retrieve and display the contact information:
Call / Readout / Create New / Modify / Erase
 Examples: Contact Bob Smith and follow the voice prompts.

SEARCH

Use the Search command to search for information over the Internet.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Search.” Your phone will make a web connection.

REDIAL

Use the Redial command to make a call to the last number you dialed.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Redial.” Your phone will make a call to the last number you dialed.

PLAY <PLAYLIST>

Say “Play” followed by a playlist title and then your phone will play back the recognized playlist for you.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Play <Playlist>” to play back individual playlist or say “Play All Songs” to play back all songs saved in your phone.

MY VERIZON

Use the My Verizon command to access information about your Verizon account.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “My Verizon.” Your phone will make a web connection.

HELP

Use the Help command to view how to use the Voice Commands.

1. You will hear “Please say a command” and the Voice Commands menu will be displayed.
2. Say “Help.” The Help guide will be displayed on your phone.

CALCULATOR

The Calculator allows you to perform simple mathematical calculations. To access the calculator:

1. Slide the phone up, tap **Tools** and then tap **Calculator**.
2. Use the virtual keys that correspond to the calculator display to perform basic mathematical operations.
3. To reset the calculator, tap **Clear All**.

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TIP CALCULATOR

Allows you to calculate the tip and determine how much each person should pay for the bill.

1. Slide the phone up, tap **Tools** and then tap **Tip Calculator**.
2. Enter the amount in the **Total Bill** field by using the number keypad.
3. Scroll to the percentage of tip in the **% Tip** field. The amount of a tip will be displayed in the **Tip (\$)** field.
4. Scroll to the number of attendees in the **People** field. The tip amount per each person is shown in the **Each** field.
5. To reset the tip calculator, tap **Reset**.

CALENDAR

The Calendar tool provides easy and convenient access to your schedule. Simply store your appointments and your phone will alert you.

CREATING A NEW EVENT

1. Slide the phone up, tap **Tools** and then tap **Calendar**.
2. Tap **New**.
3. Tap the **Subject** field.
4. Enter the subject and tap **Done**.
5. Enter the event information by using the following options:
 - **Start Date:** Enters the starting date of the event.
 - **Start Time:** Enters the starting time of the event.
 - **End Date:** Enters the ending date of the event.
 - **End Time:** Enters the ending time of the event.
 - **Recurrence:** Sets the recurrence of the event (**None/Daily/Every X Days/Weekly/Monthly/Yearly**).
 - **Alert Tone:** Selects a ringtone for the event alarm.
 - **Vibrate:** Sets the phone to vibrate for alerting you to the event.

- **Alert Time:** Sets the alert time before the event takes place (**On Time/15 minutes before/30 minutes before/45 minutes before/1 hour before/3 hours before/5 hours before/1 day before**).
 - **Reminder:** Sets the phone to remind you of the event (**Off/Once/Every 2 minutes/Every 15 minutes**).
6. Tap **Save** to save the event. The date of the event will be marked as the yellow triangle on your calendar.

VIEWING AN EVENT

1. Slide the phone up, tap **Tools** and then tap **Calendar**.
2. Tap a date with a scheduled event.
3. Tap an event to view details.

DELETING AN EVENT

1. Slide the phone up, tap **Tools** and then tap **Calendar**.
2. Tap a date with a scheduled event.
3. Tap an event to be deleted.
4. Tap **More** and then tap **Erase**.
5. Tap **Yes** to confirm.

DELETING ALL PAST EVENTS

Allows you to delete all past events from today.

1. Slide the phone up, tap **Tools** and then tap **Calendar**.
2. Tap **More** and then tap **Erase All**.
3. Tap **Yes** to confirm.

ALARM CLOCK

The Alarm Clock tool allows you to set up to three alarms. When you set an alarm, the current time is displayed at the top of the screen. When the alarm goes off, **ALARM** will be displayed on the screen and the alarm will sound.

SETTING AN ALARM

1. Slide the phone up, tap **Tools** and then tap **Alarm Clock**.
2. Tap an alarm (1, 2, or 3).
3. Set the following options:
 - **Set Time:** Sets the alarm time.
 - **Repeat:** Selects an alarm frequency (**Once / Daily / Mon - Fri / Weekends**).
 - **Ringtone:** Selects a ringtone for the alarm.
4. Tap **Save** to save the alarm.
The Alarm icon appears on the Menu mode display area.

STOPPING AN ALARM

When an alarm sounds,

- Tap **Snooze** to delay the alarm for an additional 5 minutes.
- Tap **Dismiss** to stop the alarm.

DEACTIVATING AN ALARM

1. Slide the phone up, tap **Tools** and then tap **Alarm Clock**.
2. Tap **ON** next to the alarm you want to deactivate. You will see the indicator slide to **OFF**.

RESETTING AN ALARM SETTING

1. Slide the phone up, tap **Tools** and then tap **Alarm Clock**.
2. Tap an alarm to reset.
3. Tap **Reset**.
4. Tap **Yes** to confirm.

RESETTING ALL ALARM SETTINGS

1. Slide the phone up, tap **Tools** and then tap **Alarm Clock**.
2. Tap **Reset All**.
3. Tap **Yes** to confirm.

STOP WATCH

Simultaneously times up to twenty different events. To operate the stopwatch:

1. Slide the phone up, tap **Tools** and then tap **Stop Watch**.
2. Tap **Start** to start the stopwatch.
3. Tap **Lap** to record lap times.
4. Tap **Stop** to the stop recording lap times.
5. Tap **Resume** to restart recording lap times or tap **Reset** to clear recorded times.

WORLD CLOCK

World Clock allows you to view the time in another country and city.

VIEWING WORLD CLOCKS

1. Slide the phone up, tap **Tools** and then tap **World Clock**.
2. Scroll through the world map and tap a continent.
3. Tap a city. You can also select a city from the list by tapping **Cities**.

SETTING DAYLIGHT SAVING TIME (DST)

1. Slide the phone up, tap **Tools** and then tap **World Clock**.
2. Scroll through the world map and tap a continent.
3. Tap a city. You can also select a city from the list by tapping **Cities**.
4. Tap **DST** to set the city as Daylight Saving Time.

UNIT CONVERTER

The Unit Converter allows you to convert units of measurement from one to another.

1. Slide the phone up, tap **Tools** and then tap **Unit Converter**.
2. Scroll up or down to select the measurement and units of the measurement in the appropriate fields.
3. Enter the value you want to convert from in the **From** field. As you enter the value, the converted value is shown in the **To** field.

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NOTEPAD

Your phone includes an internal notepad that can be used to compose and store reminders and notes.

CREATING A NEW NOTE

1. Slide the phone up, tap **Tools** and then tap **Notepad**.
2. Tap **Yes** to create a new note. If there are already saved notes, tap **New**.
3. Enter the note text and tap **Done**.

VIEWING A NOTE

1. Slide the phone up, tap **Tools** and then tap **Notepad**.
2. Tap the desired a note to view details.

DELETING A NOTE

1. Slide the phone up, tap **Tools** and then tap **Notepad**.
2. Tap  next to the note you want to delete.
3. Tap **Yes** to confirm.

DELETING ALL NOTES

To delete all saved memos:

1. Slide the phone up, tap **Tools** and then tap **Notepad**.
2. Tap **Erase All**.
3. Tap **Yes** to confirm.

USB MASS STORAGE

USB Mass Storage allows you to transfer files to or from your PC. In order to use this function, you must insert a microSD™ card. Use this function with the 1GB microSD™ card that is pre-installed in your phone.

1. Connect your phone to a PC with the USB cable.
2. Slide the phone up, tap **Tools** and then tap **USB Mass Storage**.

3. When a pop-up window appears on your PC, open a folder to view files.
4. Copy files from the PC to the memory card.

AIRPLANE MODE

In Airplane mode, all menu functions can be accessed except making calls, receiving calls, data connection and Bluetooth®. Activating Airplane mode will disable all wireless communications including Location service.

1. Slide the phone up and tap **Settings** .
2. Tap **OFF** next to **Airplane Mode**. You will see the indicator slide to **ON**.

MUSIC ONLY MODE

Music Only mode allows you to disable all wireless functions of your phone, such as calls and messages while playing music.

1. Slide the phone up and tap **Settings** .
2. Tap **OFF** next to **Music Only Mode**. You will see the indicator slide to **ON**.

BLUETOOTH

Bluetooth® technology connectivity enables wireless connections between electronic devices. If connected with a Bluetooth handsfree device, you can use your phone more freely. Since devices with Bluetooth connectivity communicate using radio waves, your phone and the other device do not need to be in direct line-of-sight. The two devices only need to be within 10 meters (30 feet) of each other. The connection can be subject to interference from obstructions such as walls or other electronic devices. This device is compliant with Bluetooth specification 2.1, supporting the following profiles: Dial Up Networking, Handsfree, Headset, Sync, Basic Imaging, Basic Printing, File Transfer, Object Push for vCard and Stereo. To ensure interoperability between other devices supporting Bluetooth technology, use approved enhancements for this model. Check with the manufacturers of other devices to determine their compatibility with this phone. There may be restrictions on using Bluetooth technology in some locations. Check with your local authorities or Verizon Wireless.

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If you want more information on this function, visit the Bluetooth Technology organization Web site: <https://www.bluetooth.org/>.

 **Important:** Features using Bluetooth technology, or allowing such features to run in the background while using other features, increase the demand on battery power and reduce the battery life.

TURNING ON THE BLUETOOTH FEATURE

1. Slide the phone up and tap **Settings** .
2. Tap **OFF** next to **Bluetooth**. You will see the indicator slide to **ON**.

ADDING A NEW DEVICE

Pairing is the process that allows your phone to locate, establish and register a 1-to-1 connection with the target device.

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap **Add New Devices**.
3. The phone will prompt you with the following message on the screen: **“Place device you are connecting to in discoverable mode.”** Tap **Next**.
4. The device will appear in the **Search for Devices** menu. Tap the device you wish to pair with and tap **Pair Device**.
5. The handset may prompt you for the passkey. Consult the Bluetooth accessory (sold separately) instructions for the appropriate passkey (typically “0000” — 4 zeroes). Enter the passkey and tap **Yes**.
 - You may not need to input the passkey for pairing when the passkey of the Bluetooth headset or hands-free kit is 0000.
 - If the Bluetooth version of your headset is the same as your phone’s Bluetooth version, tap **Yes** without entering the passkey.
6. Tap **Always Ask Before Connect** if you want the phone to ask you before connecting to the device.
7. Once connected, you will see the device listed in the **Bluetooth Settings** menu.

TRANSFERRING FILES

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap the paired device in the list.
3. With Discovery Mode On for the paired device, select one of the following options:
 - **Send Name Card:** Allows you to send a contact as the name card.
 - **Send Picture:** Allows you to send photos to the device.
 - **Send Video:** Allows you to send videos to the device.
 - **Send Calendar Event:** Allows you to send calendar events to the device.
 - **Get Name Card:** Allows you to get name cards from the device.
 - **Exchange Name Card:** Allows you to send your name card and receive a name card from the device.
 - **Browse/Get Files:** Allows you to search and get files from the device.
 - **Transfer Image:** Allows you to transfer images to the device.
4. Tap the desired file(s) to transfer to or from the device and tap **Done**, if necessary.

BLUETOOTH SETTINGS

MY PHONE NAME

To edit the Bluetooth® name of your phone:

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap **Settings**.
3. Tap **My Phone Name**.
4. Tap  and enter a name.
5. Tap **Done** to save the name.

DISCOVERY MODE

To set whether your device is able to be searched for by other Bluetooth devices in the area:

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap **Settings**.

3. Tap **OFF** next to **Discovery Mode**. You will see the indicator slide to **ON**.

 If Bluetooth is not on, it will be turned on automatically.

SUPPORTED PROFILES

To view brief descriptions of the profiles supported by the phone:

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap **Settings**.
3. Tap **Supported Profiles**.
4. Scroll to the profile information you want to view.

AUTO PAIR HANDSFREE

To set your phone to pair with a handsfree device automatically:

1. Slide the phone up, tap **Settings**  and then tap **Bluetooth Settings**.
2. Tap **Settings**.
3. Tap **OFF** next to **Auto Pair Handsfree**. You will see the indicator slide to **ON**.

SOUND SETTINGS

Allows you to customize the sound settings of your phone.

MASTER VOLUME

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Tap the volume level below **Master Volume**.
3. Tap **+** or **-** to adjust the volume level.
To hear the volume level, tap **Play**.
4. To set to vibrate when your phone rings, tap **OFF** next to **Vibrate While Ringing**.
5. Tap **Set**.

RINGTONES

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.

2. From the **Ringtones** menu, select one of the following settings:

- **Incoming Call**: Selects a ringtone for incoming calls.
- **Text Msg.**: Selects a ringtone for new text messages.
- **Multimedia Msg.**: Selects a ringtone for new picture or video messages.
- **Voicemail**: Selects a ringtone for new voicemails.
- **Missed Call**: Selects a ringtone for missed call notifications.

3. To play a ringtone, tap the  **Key**.
4. To select a ringtone, tap the name of the tone in the **Change to** field.

CALLER ID READOUT

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Scroll down and tap the option next to **Caller ID Readout**.
3. Tap an option in the **Change to** field to select.

EMERGENCY TONE

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Scroll down and tap **Off** next to **Emergency Tone**.
3. Tap an alert type in the **Change to** field to select.

ALERT VIBRATE

Allows you to set the phone to vibrate when calls or messages come in.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. From the **Alert Vibrate** menu, tap **OFF** next to the setting you want to change to **ON**.

ALERTS REMINDER

Allows you to set the phone to remind you of new messages and missed calls.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. From the **Alerts Reminder** menu, tap **Off** next to the setting you want to change.
3. Tap a reminder option in the **Change to** field to select.

POWER ON/OFF SOUND

Allows you to set the phone to play sounds when the phone is turned on and off.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Scroll down, then tap **ON** or **OFF** next to **Power On** or **Power Off**.

OPEN/CLOSE SOUND

Allows you to set the phone to play sounds when you slide your phone up and down.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Scroll down and tap the option next to **Slide Open** or **Slide Close**.
3. To select a ringtone, tap the name of the tone in the **Change to** field.

SERVICE ALERTS

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. From the **Service Alerts** menu, select one of the following settings:
 - **ERI**: Allows you to set the phone to sound when the phone is connected to the network, calls are connected, or the service is not available.
 - **Minute Beep**: Allows you to set the phone to sound every minute during a call.
 - **Call Connect**: Allows you to set the phone to sound when an outgoing call is connect.
 - **Software Update**: Allows you to set the phone to sound when your phone's software is updated.
3. Tap **ON** or **OFF** next to the desired option to adjust to the other setting.

TOUCH AUDIO FEEDBACK

Allows you to set the phone to play sounds when you tap the touch screen.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Tap **ON** or **OFF** next to **Touch Audio Feedback**.

DIGIT DIAL READOUT

Allows you to set the phone to read digits when you enter a phone number from the dial screen.

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.

2. Scroll down and tap **OFF** next to **Digit Dial Readout**. You will see the indicator slide to **ON**.

DEVICE CONNECT

1. Slide the phone up, tap **Settings**  and then tap **Sound Settings**.
2. Scroll down, then tap **ON** or **OFF** next to **Device Connect**.

DISPLAY SETTINGS

Allows you to customize the display of your touch screen.

WALLPAPER

To select a wallpaper to be displayed on the phone:

1. Slide the phone up, tap **Settings**  and then tap **Display Settings**.
2. Tap **Wallpaper**.
3. Tap **Select Picture** or **Select Video**.
4. Tap a picture or video.
 - To download other available pictures, tap **Shop Pictures**.
5. Tap **Set As Wallpaper**.

BANNERS

To set your Personal or ERI banner:

PERSONAL BANNER

The Personal Banner can be up to 16 characters and is displayed on your phone's display screen from idle mode.

1. Slide the phone up, tap **Settings**  and then tap **Display Settings**.
2. Tap **None** next to **Personal**.
3. Enter the banner text (up to 16 characters) and tap **Save**.

ERI BANNER

If you use ERI Service, ERI text is shown on the sub banner.

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Tap **OFF** or **ON** next to **ERI**.

MAIN MENU SETTINGS

To change Main Menu layout and type:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down to **Main Menu Settings**.
3. Select one of the following options and change the setting:
 - **Position Menu Items**: Allows you to move menus to a different position.
 - **Replace Menu Items**: Allows you to replace menus with desired menus.
 - **Change Menu Layout**: Allows you to change the menu layout.
 - **Reset Menu Settings**: Allows you to reset Main Menu Settings.
4. Tap **Save** to save the desired Main Menu layout and type.

BACKLIGHT TIMER

To set the duration of the backlight:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Backlight Timer**.
3. Tap a backlight time in the **Change to** field to select.

BACKLIGHT BRIGHTNESS

To adjust the brightness of the backlight:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Backlight Brightness**.
3. To adjust the brightness automatically, tap **OFF** in the **Auto Brightness** menu.
To adjust the brightness manually, tap the brightness level you want to change.
4. Tap **Done**.

DISPLAY THEME

To choose the background screen:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap **Display Theme**.
3. Tap a theme in the **Change to** field.
4. Tap **Set As Display Theme**.

FONT TYPE

To set the font type:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Font Type**.
3. Tap a font type in the **Change to** field to select.

DIAL FONTS

To set the dial font size:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Dial Fonts**.
3. Tap a font size in the **Change to** field to select.

MENU FONT SIZE

To set the menu font size:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Menu Font Size**.
3. Tap a font size in the **Change to** field to select.

CLOCK FORMAT

To set the clock type to be displayed on the idle screen:

1. Slide the phone up, tap **Settings** and then tap **Display Settings**.
2. Scroll down and tap the option next to **Clock Format**.
3. Tap a clock format in the **Change to** field.
4. Tap **Set Clock Format**.

TOUCH SETTINGS

Allows you to set the phone to vibrate when you touch the screen and set the vibration level.

1. Slide the phone up, tap **Settings**  and then tap **Touch Settings**.
2. Tap **OFF** or **ON** to set the phone to vibrate at your touch.
3. If you set to **ON**, tap the option next to **Vibrate Level**. Tap a vibrate level in the **Change to** field to select.

PHONE SETTINGS

Allows you to customize the phone settings of your phone.

VOICE COMMANDS SETTINGS

Allows you to set options for Voice Commands.

CONFIRM CHOICES

When the phone does not recognize your voice command, it will ask you to repeat your voice command. If it does not recognize the name or number, it will display a list of up to three choices and speak each one in turn. You can control how often the phone asks you to confirm the recognized name or number.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Voice Commands Settings** and then tap **Confirm Choices**.

 To view information about each option, tap **Info**.

3. Tap a confirmation choice in the **Change to** field to select.

SENSITIVITY

The Sensitivity setting allows you to adjust the sensitivity monitoring of voice tones. If you frequently experience the messages “Please try again” or “COMMAND NOT RECOGNIZED Try again?”, adjust the sensitivity toward **Less Sensitive**. If you frequently experience false activations (when the phone recognizes a name you didn't say), adjust the sensitivity toward **More Sensitive**.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Voice Commands Settings** and then tap **Sensitivity**.
3. Tap **Automatic**, **More Sensitive**, or **Less Sensitive** in the **Change to** field.

ADAPT VOICE

Voice Commands are speaker independent, which means that no training or adaptation is required. Some users with heavy accents or unusual voice characteristics may find difficulty in achieving high accuracy with speaker independent Voice Commands, so the Adapt Voice feature allows users to dramatically improve the recognition accuracy after adapting their voices. Users who get acceptable recognition accuracy will find no additional benefit to performing the Adapt Voice feature.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Voice Commands Settings** and then tap **Adapt Voice**.
3. Tap **Train Voice**.
 - **Train Voice**: Requires that you make recordings of your voice to customize the voice recognition system. It will take a few minutes.
 - **Reset Voice**: Once you finish the adaptation process, you can reset the adaptation to the factory default. The Reset Voice option only appears after you finish the Train Voice process.
4. Tap **OK** to begin.
5. Wait for the beep, and then repeat the sentences using a normal tone of voice.
6. When you are finished with a full session, you will reach a screen that reads “Adaptation complete.”

PROMPTS

Allows you to select voice command system characteristics.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Voice Commands Settings** and then tap **Prompts**.

3. Tap one of the following options and then tap the desired submenu option in the **Change to** field to select:

- **Mode:** Tap the voice command system mode from the following:
 - **Prompts:** For handset to prompt for required information.
 - **Tones Only:** For handset to provide beeps only for audio guidance.
- **Audio Playback:** Allows audio playback to play through the speakerphone or earpiece. Tap **Speakerphone** or **Earpiece**.
- **Timeout:** Tap a period of time either **5 seconds** or **10 seconds** which the system listens for a command before timing out.

ABOUT

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Voice Commands Settings** and then tap **About**.
3. View the version information about Nuance.

LANGUAGE

To set the language of the display:

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Language**.
3. Tap a language in the **Change to** field to select.

LOCATION

The Location (GPS) service allows the network to detect and find your current location.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Location**.
3. Tap **Full Detection** to allow the network to detect your location.
To detect your location only in E911 mode, tap **E911 Only**.

 When **Lock Setting** is set for **Location Setting** under **Restrictions** on the **Security** menu, you will need to enter a lock code. The default lock code is the last 4 digits of your phone number.

CURRENT COUNTRY

Allows you to set the country of your current location so that your phone works properly while you travel.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Current Country**.
3. Tap a country in the **Change to** field to select.

SECURITY

The Security menu allows you to electronically secure the phone. To access this menu, you must enter the 4-digit lock code. The default lock code is the last 4 digits of your phone number.

EDIT CODES

To change the lock code:

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Security**.
3. Enter the 4-digit lock code.
4. Tap **Edit Codes**.
5. Tap one of the following settings:
 - **Phone Only:** Allows you to edit the lock code for Security.
 - **Calls & Services:** Allows you to edit the lock code for Restrictions.
6. If you selected **Phone Only**, enter the new 4-digit lock code. Enter the new 4-digit lock code again to confirm your input.
If you selected **Calls & Services**, enter the new 4-digit lock code. Enter the new 4-digit lock code again to confirm your input.

RESTRICTIONS

Use the following procedure to configure Location Setting, Calls and Messages restrictions.

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **Security**.

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- Enter the 4-digit lock code.
- Tap **Restrictions**.
- Tap one of the following settings to select:
 - Location Setting:** **Unlock Setting/Lock Setting**.
 - Calls:** **Incoming Calls/Outgoing Calls**.
For Incoming Calls, set **Allow All**, **Contacts Only**, or **Block All**.
For Outgoing Calls, set **Allow All**, **Contacts Only**, or **Block All**.
 - Messages:** **Incoming Messages/Outgoing Messages**.
For Incoming Messages, set **Allow All** or **Block All**.
For Outgoing Messages, set **Allow All** or **Block All**.
 - Dial-Up Modem:** **Allow/Block**

PHONE LOCK SETTING

This setting specifies whether the phone should be locked whenever it is turned on. Lock mode prevents the unauthorized use of your phone. Once the phone is locked, it is in restricted mode until the lock code is entered. You can still make emergency calls.

- Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
- Tap **Security**.
- Enter the 4-digit lock code.
- Tap **Phone Lock Setting**.
- Tap one of the following settings to select:
 - Unlocked:** Phone is unlocked.
 - On Power Up:** Phone will be locked when it is turned on.

LOCK PHONE NOW

Allows you to lock your phone immediately.

- Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
- Tap **Security**.
- Enter the 4-digit lock code.
- Tap **Lock Phone Now**.
- To unlock the phone, enter the 4-digit lock code.

RESTORE PHONE

To delete all user data and restore all settings to their default values:

- Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
- Tap **Security**.
- Enter the 4-digit lock code.
- Tap **Restore Phone**.
- Tap **Yes** to confirm.
- Tap **Next**.
- Enter the 4-digit lock code. The phone will turn off and then back on automatically.

SYSTEM SELECT

You can set your phone to search or roam on another network when you are not in your home area. Leave this setting as default unless you want to alter the system selection as instructed by your service provider.

- Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
- Tap **System Select**.
- Tap one of the following settings to select:
 - Automatic:** Scans radio channels based on the automatic setting.
 - Home Only:** Network is available only within your home area or home affiliated area.

NAM SELECT

Enables Auto NAM (Number Assignment Modules) or selects a NAM manually.

AUTO NAM

Automatically switches the phone to proper NAM when you have multiple NAM registrations.

- Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
- Tap **NAM Select**.
- Tap **OFF** next to **Auto NAM**. You will see the indicator slide to **ON**.

CHANGE NAM

1. Slide the phone up, tap **Settings**  and then tap **Phone Settings**.
2. Tap **NAM Select**.
3. Tap the option next to **Change NAM**.
4. Tap one of the following settings to select:
 - **NAM1**: Set the phone to save the phone information that is set by default.
 - **NAM2**: Set the phone to save the phone information that is set for the other phone number.

 This setting is available only when you register two cell phone numbers on your phone.

CALL SETTINGS

Allows you to customize the call settings of your phone.

AUTO ANSWER WITH HANDSFREE

Allows you to answer incoming calls via handsfree. This feature is available only when the phone is connected to a headset or handsfree device.

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **OFF** next to **Auto Answer with Handsfree**. You will see the indicator slide to **ON**.

SLIDE CLOSE TO END CALL

Allows you to set the phone to end calls when you slide the phone down.

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **OFF** next to **Slide Close to End Call**. You will see the indicator slide to **ON**.

AUTO RETRY

To set a period of time the phone waits before automatically redialing when an attempted call fails:

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **Off** next to **Auto Retry**.
3. Tap one of the following settings to select: **Off** / **10 Seconds** / **30 Seconds** / **60 Seconds**

TTY MODE

You can attach a TTY device to your phone enabling you to communicate with parties also using a TTY device. A phone with TTY support is able to translate typed characters to voice. Voice can also be translated into characters and then displayed on the TTY.

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **TTY Off** next to **TTY Mode**.
3. Tap one of the following settings to select: **TTY OFF** / **TTY Full** / **TTY + Talk** / **TTY + Hear**

VOICE PRIVACY

Voice Privacy provides advanced voice encryption to prevent eavesdropping.

To turn the voice privacy feature on or off:

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **OFF** next to **Voice Privacy**. You will see the indicator slide to **ON**.

DTMF TONES

To set the key tone length:

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap the option next to **DTMF Tones**.
3. Tap one of the following settings to select:
 - **Normal**: Sends out a tone for a fixed period of time even if you continue to press the key.
 - **Long**: Sends out a continuous tone for the duration the key is pressed and held.

ASSISTED DIALING

Assisted Dialing allows you to easily make international calls just by entering an international call code “+” and a phone number without a country code.

1. Slide the phone up, tap **Settings**  and then tap **Call Settings**.
2. Tap **OFF** next to **Assisted Dialing**. You will see the indicator slide to **ON**.
3. Tap an option next to **Reference Country**.
4. Tap a country where you frequently make international calls.
5. Tap **Set**.

MEMORY

Allows you to customize the memory settings of your phone.

SAVE OPTIONS

To select whether to save to the phone memory or to the card memory when saving files:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap the option next to **Pictures**, **Videos**, or **Sounds** in the **Save Options** menu.
3. Tap **Phone Memory** or **Card Memory** to select.

PHONE MEMORY

Allows you to manage the memory usage for media files and contacts on your phone's memory.

PHONE MEMORY USAGE

To check the memory usage for the phone memory:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Phone Memory** and then tap **Phone Memory Usage**.
3. View the details for the memory usage.

MANAGING FILES

To copy, move, or delete files from the phone memory:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Phone Memory**.
3. Tap **My Pictures**, **My Videos**, **My Ringtones**, **My Music**, **My Sounds**, or **My Contacts**.
4. Tap **More**.
5. Tap one of the following options to select:
 - **Move To Card**: Allows you to move files from the phone memory to the memory card.
 - **Copy To Card**: Allows you to copy files from the phone memory to the memory card, if applicable.

- **Erase**: Allows you to delete files in the phone memory.



The Copy To Card option is available only when you copy contacts.

MOVING ALL FILES

To move all files saved in the phone memory to the card memory:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Phone Memory** and then tap **Move All to Card**.
3. Tap **Yes** to confirm.



Do not remove the memory card from the phone while files are being moved to the card memory.

CARD MEMORY

Allows you to manage the memory usage for media files and contacts on your card memory. The microSD™ card must be inserted to the phone to perform these functions. Use these functions with the 1GB microSD™ card that is pre-installed in your phone.

CARD MEMORY USAGE

To check the memory usage for the memory card:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Card Memory** and then tap **Card Memory Usage**.
3. View the details for the memory usage.

To format the memory card, tap **More** and then tap **Format card**.

MANAGING FILES

To copy, move, or delete files from the memory card:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Card Memory**.
3. Tap one of **My Pictures**, **My Videos**, **My Ringtones**, **My Music**, **My Sounds**, and **My Contacts**.
4. Tap **More**.
5. Select one of the following options:

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- **Move To Phone:** Allows you to move files from the memory card to the phone memory.
- **Copy To Phone:** Allows you to copy files from the memory card to the phone memory, if applicable.
- **Erase:** Allows you to delete files in the card memory.

 The Copy To Phone option is available only when you copy contacts.

MOVING ALL FILES

To move all files saved in the card memory to the phone memory:

1. Slide the phone up, tap **Settings**  and then tap **Memory**.
2. Tap **Card Memory**.
3. Tap **Move All to Phone**.
4. Tap **Yes** to confirm.

 Do not remove the memory card from the phone while files are being moved to the card memory.

USB MODE

USB mode allows you to transfer data between the phone and a PC.

 **Important:** To activate your device for data transfer, select **USB Mode** before connecting the USB data cable.

1. Slide the phone up, tap **Settings**  and then tap **USB Mode**.
2. Tap one of the following settings to select:
 - **Media Sync Mode:** Allows you to sync your music files with the Windows Media Player.
 - **Modem Mode:** Allows you to use your phone as a modem.
 - **Mass Storage:** Allows you to connect your phone to a PC as a removable disk via the USB cable. Use this option to move files to and from your phone. This setting is only available when a memory card is installed.
 - **Ask On Plug:** Allows you to select USB Mode whenever the USB data cable is connected between the PC and your phone.

 • Even if **Ask On Plug** is set for **USB Mode**, you may not be asked to select **USB Mode** while receiving/making a call, using Bluetooth®, transferring data, etc.

• To use End User Upgrade Tool, tap **Modem Mode** for **USB Mode**.

PHONE INFO

MY NUMBER

To view your phone number:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **My Number**.

SW/HW VERSION

To view your hardware and software version information:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **SW/HW Version**.
3. View the version information of your phone.

ICON GLOSSARY

To view all the icons and their meanings:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **Icon Glossary**.

 Please refer to **Display Indicators** on page 12 for more details about the icons.

SOFTWARE UPDATE

The Software Update allows you to download and update the software in your phone automatically. Only the internal software is updated; Contacts entries or other information saved to your phone will NOT be deleted.

STATUS

To check the latest software download/update status:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **Software Update**.
3. Tap **Status**.

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CHECK NEW

To check the download server for new software updates:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **Software Update**.
3. Tap **Check New**.

OPERATING SYSTEM

To view information about your phone's operating system:

1. Slide the phone up, tap **Settings**  and then tap **Phone Info**.
2. Tap **Operating System**.

EASY SETUP

The Easy Setup allows you to easily customize settings for sounds, display, or together.

1. Slide the phone up and tap **Settings** .
2. Tap **Easy Set Up** on the bottom.
3. Tap **Sounds** or **Display**.

 To set up sound and display options all together, tap **Set-up Wizard**.

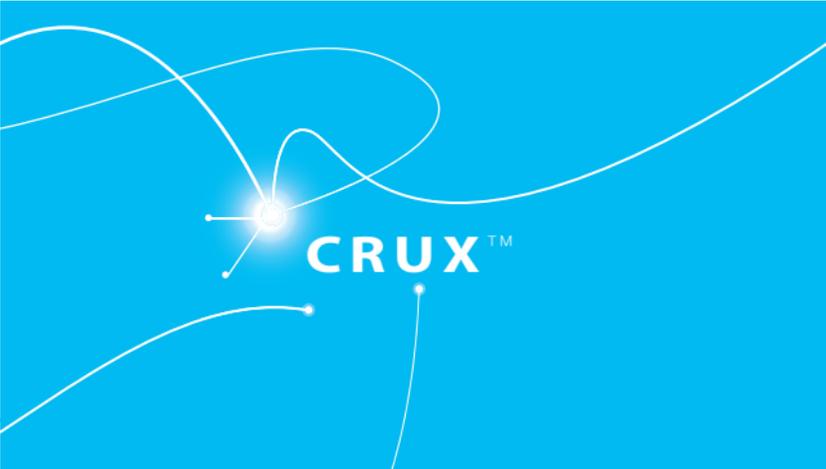
4. Customize the settings for your preferences.

CAMERA 5

Your phone has the built-in camera that allows you to take photos and record videos.

This chapter addresses the camera and camcorder functions:

- TAKING A PHOTO
- RECORDING A VIDEO
- TAKING A PHOTO IN SMILE SHOT MODE
- VIEWING VIDEOS
- LINKING A CAPTURED PHOTO TO YOUR CONTACT
- USING VIDEO OPTIONS
- TAKING A PHOTO WITH A FUN EFFECT
- USING CAMERA AND CAMCORDER SETTINGS
- VIEWING PHOTOS
- USING PHOTO OPTIONS



CRUX™

TAKING A PHOTO

1. Slide the phone up and press the Camera Key  to turn on the camera.
2. Rotate the phone counter-clockwise to landscape view, if necessary.
3. Aim the lens at the subject and make any necessary adjustments.



Number	Function
1	Allows you to view the memory location for saving photos.
2	Allows you to view the number of photos you can take. The number of photos may differ depending on the picture resolution.
3	Switches to the camcorder.
4	Allows you to view photos in the My Pictures menu.
5	Zooms in or out. This function is only available when the picture resolution is set under 2048x1536 (1536x2048).
6	Allows you to check the camera status and settings such as resolution, camera view mode, and multi-shot number.
7	Adjusts the brightness.
8	Allows you to change the camera settings.

4. Press the Camera Key  to take a photo. The photo is automatically saved.

-  If **Auto Save** is set to off, the following options are available after taking a picture:
- **Erase:** Deletes the captured photo.
 - **Save:** Saves the captured photo.
 - **Set As:** Sets the captured photo as wallpaper or picture ID image.
 - **Send:** Sends the captured photo.

TAKING A PHOTO IN SMILE SHOT MODE

1. Slide the phone up and press the Camera Key  to turn on the camera.
2. Tap .
3. Tap **OFF** next to **Smile Shot**.
4. Tap **Save**.
5. Rotate the phone counter-clockwise to landscape view, if necessary.
6. Aim the lens at your subject.

Your phone recognizes people in an image and detects their smiles. When the subject smiles, the phone automatically takes a photo.

LINKING A CAPTURED PHOTO TO YOUR CONTACT

With Face Tag, you can take a photo and link it to your contact to make calls or send messages from photos.

1. Slide the phone up and press the Camera Key  to turn on the camera.
2. Tap .
3. Tap **OFF** next to **Face Tag**.

 If **Auto Save** is set to on, deactivate it before using the face tag function.

4. Tap **Save**.
5. Rotate the phone counter-clockwise to landscape view, if necessary.
6. Aim the lens at your subject and make any necessary adjustments.
7. Press the Camera Key  to take a photo.

- Tap **Add**.
- When “**ADD FACE TAG?**” appears on the display, tap **Yes**.
- Tap the name of the contact from the contact list.

TAKING A PHOTO WITH A FUN EFFECT

- Slide the phone up and press the Camera Key  to turn on the camera.
- Tap .
- Tap **None** next to **Face Filter**.
- Tap an effect in the **Change to** field to select.
- Tap **Save**.
- Rotate the phone counter-clockwise to landscape view, if necessary.
- Aim the lens at your subject and make any necessary adjustments.
- Press the Camera Key  to take a photo. The photo is automatically saved.

 If **Auto Save** is set to off, tap **Save** to save the captured photo.

VIEWING PHOTOS

- Slide the phone up and press the Camera Key  and then tap .
- Tap the photo you want to view.
- Drag your finger left or right to view other photos saved recently.
- To send the photo, tap **Send**.
To set the photo as wallpaper or picture ID image, tap **Set As**.

USING PHOTO OPTIONS

While viewing a photo, tap **More** to use the following options:

- Move To Card / Move To Phone:** Moves the photo to the memory card or the phone memory.
- Lock:** Locks the photo. This option is available only for the photos saved in phone memory.
- Erase:** Deletes the photo.

- Camera:** Switches to the camera.
- Shop Pictures:** Allows you to purchase pictures on the website.
- File Info:** Allows you to view the properties of the photo.

RECORDING A VIDEO

- Slide the phone up, press and hold the Camera Key  to turn on the camcorder.
- Rotate the phone counter-clockwise to landscape view, if necessary.
- Aim the lens at the subject and make any necessary adjustments.



Number	Function
1	Allows you to view the memory location for saving videos.
2	Switches to the camera.
3	Mutes or unmutes the audio.
4	Allows you to view videos in the My Videos menu.
5	Zooms in or out.
6	Allows you to check the camcorder status and settings such as resolution, camcorder view mode, and video quality.
7	Adjusts the brightness.
8	Allows you to change the camcorder settings.

- Press the Camera Key  to start recording.
- When you are finished, press the Camera Key  to stop recording. The video is automatically saved.

-  If **Auto Save** is set to off, the following options are available after recording a video:
- Erase:** Deletes the recorded video.
 - Save:** Saves the recorded video.
 - Set As Wallpaper:** Sets the recorded video as wallpaper.
 - Send:** Sends the recorded video.

VIEWING VIDEOS

- After recording a video, tap .
- Tap the video you want to view and tap  to play.
- After viewing the video, drag your finger left or right to view other videos saved recently.
- To send the video, tap **Send**.
To set the video as wallpaper, tap **Set As Wallpaper**.

USING VIDEO OPTIONS

While viewing a video, tap **More** to use the following options:

- Move To Card / Move To Phone:** Moves the video to the memory card or phone memory.
- Lock:** Locks the video. This option is available only for the videos saved in the phone memory.
- Erase:** Deletes the video.
- Camera:** Switches to the camcorder.
- File Info:** Allows you to view the properties of the video file.

USING CAMERA AND CAMCORDER SETTINGS

While using the camera or camcorder, tap  to access the following settings:

Camera		
Setting		Description
Capture mode		Changes the display view in the camera (Auto / Landscape / Portrait).
White Balance	—	Adjusts the color balance according to your lighting conditions (Auto / Sunny / Cloudy / Tungsten / Fluorescent / Darkness).
Self Timer		Selects the length of the time delay before the camera takes a photo (Off / 3 Seconds / 5 Seconds / 10 Seconds).
Multi-shot		Selects a number of photos for taking a multi-shot photo. This function is only available when the picture resolution is set to 640x480, 320x240, and 160x120 (0 / 3 / 6 / 9).
Shutter Sound	—	Selects the shutter release sound (Shutter / Silent / Say Cheeze / Ready! 123).
Picture Resolution		Changes the image resolution (2048X1536 / 1600X1200 / 1280x960 / 640x480 / 320x240 / 160x120).
Color Effects	—	Changes the color effect (Normal / Antique / Black & White / Negative).
Save Options		Selects the default memory location for saving photos (Phone Memory / Card Memory).
Auto Save	—	Allows you to set the phone to automatically save photos after taking them (ON / OFF).
Smile Shot		Allows you to set the phone to recognize and capture smiling faces (ON / OFF).
Face Tag		Sets the phone to tag faces in your photos and link them with your contacts to make calls or send messages from photos (ON / OFF).
Face Filter	—	Sets the phone to detect faces in your photos and allow you to apply fun effects to the faces (None / Big Head / Facial Color / Out Focusing / Mosaic / Snow / Fisheye / Concave).
Restore Factory Settings	—	Restores all camera settings to their default values (YES / NO).

Camcorder	
Setting	Description
Display Mode	 Changes the display view in the camcorder (Auto / Landscape / Portrait).
White Balance	— Adjusts the color balance according to your lighting conditions (Auto / Sunny / Cloudy / Tungsten / Fluorescent / Darkness).
Video Quality	 Changes the video resolution (High / Medium / Low).
Recording Time	— Allows you to set the video recording time (For Send / For Save).
Color Effects	— Changes the color effect (Normal / Antique / Black & White / Negative).
Save Options	 Selects the default memory location for saving videos (Phone Memory / Card Memory).
Auto Save	— Allows you to set the phone to automatically save videos after recording them (ON / OFF).
Shutter Sound	— Selects the shutter release sound (Shutter / Silent).
Video Resolution	 Changes the video resolution (176X144 / 640x480 / 320x240).
Restore Factory Settings	— Restores all camcorder settings to their default values (YES / NO).

MEDIA CENTER 6

Your phone provides a unique feature - Media Center - that enables you to download ringtones, wallpapers, games and more from your network to your phone. Please contact your service provider for the availability of these services.

USING A microSD™ CARD

SEARCH

MUSIC & TONES

PICTURE & VIDEO

GAMES

BROWSER

BROWSE & DOWNLOAD

EXTRAS

DIRECTIONS



USING A microSD™ CARD

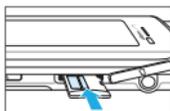
A microSD™ card stores sounds, videos, images, photos, music, and other files.

 A 1GB microSD™ card is pre-installed in your phone.

INSTALLING A microSD™ CARD

To install your microSD™ card:

1. Open the microSD™ card cover, and insert the microSD™ card into the slot with the gold contacts facing down.
2. Press the microSD™ card into the slot until you hear the “click”, then close the microSD™ card cover.
3. Then, “**SET MEMORY CARD AS DEFAULT STORAGE LOCATION?**” will appear on the display.
4. Tap **Yes** to confirm.

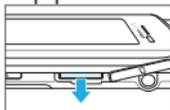


 To prevent possible damages, please keep the microSD™ card slot closed at all times regardless of whether a microSD™ card is inserted or not.

REMOVING A microSD™ CARD

To remove the microSD™ card:

1. Open the microSD™ card cover, and use your thumb to press and release the microSD™ card. Press the memory card inward, gently, until it pops out.
2. Remove the microSD™ card and close the microSD™ card cover.



- Do not remove the microSD™ card while reading or writing files. Otherwise it could be damaged.
- To ensure the proper function of removable memory, please use a microSD™ card.

SEARCH

With the BING search engine, you can search for information or pages on the BING website. Accessing the web may incur additional charges.

1. Slide the phone up and tap **Search**.
2. Enter a keyword in the search field and find information.

MUSIC & TONES

Music & Tones allows you to manage ringtones, music and sounds files. It also allows you to get new ringtones.

V CAST MUSIC / RHAPSODY®

V CAST Music with Rhapsody® — V CAST Music with Rhapsody® is a digital music service that lets you listen to millions of songs from thousands of artists. Discover new and old favorites in an extensive music catalog. Download V CAST Music with Rhapsody® to sync tracks, albums and playlists to your new compatible phone, while managing your existing PC music library all in one place.

PURCHASE SONGS ON YOUR WIRELESS DEVICE *

When you purchase music from your wireless device, you also get a second copy that can be downloaded to your PC from the V CAST with Rhapsody® software.

*Per-song charges apply.

PURCHASE SONGS ON YOUR WIRELESS DEVICE *

- Pentium III 1.0 GHz or higher
- 128 MB RAM
- 380 MB available hard disk space (This is the minimum disk space required to install the program. Additional disk space is necessary for downloading music files.)
- Windows Media Player 10

DOWNLOAD MUSIC TO YOUR PC

1. Open V CAST Music with Rhapsody®. Don't have V CAST Music with Rhapsody®? Download it for free at www.verizonwireless.com/music.
2. Log in.
3. For each V CAST Music track you've downloaded to your phone, you can download a copy to your computer at no additional charge. Song tracks available for download will pop-up upon log in completion.
4. Check the boxes of songs you wish to download.
5. Tap **Download Tracks**.

V CAST MUSIC WITH RHAPSODY®

V CAST Music with Rhapsody is a digital music service that lets you listen to millions of songs from thousands of artists. Discover new and old favorites in an extensive music catalog. Download V CAST Music with Rhapsody to sync tracks, albums, and playlists to your new compatible phone, while managing your existing PC music library all in one place.

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **V Cast Music/Rhapsody** and then tap **OK** to accept the Terms & Conditions.
3. Navigate through the sub-menus and find a song you can download.
4. Scroll to the song you want and use the following options:
 - **Preview:** Hear a 20 second preview of the song.
 - **Buy:** Buy the song. If “**CONFIRM PURCHASE**” prompts, tap **Buy This Song** to accept the terms.
5. Tap **Download Now** to download the song.
To download the song at another time, tap **Download Later**.
6. Tap **Phone Memory** or **Memory Card** to select a memory location for saving the song.
7. Tap **Play This Song** to play the song.
To return to the previous screen, tap .

DOWNLOADING SOUNDS

To connect to Media Center and download new ringtones:

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **V Cast Music/Rhapsody**, **Shop Ringtones**, or **Shop Ringback Tones**.
3. Follow the on-screen prompts and download sound files.

MY RINGTONES

To play downloaded tunes or tones:

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **My Ringtones**.
3. Scroll to the tune or tone you want to play and tap .
4. To stop, tap .

To delete downloaded tunes or tones:

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **My Ringtones**.
3. Tap **More** and then tap **Erase All**.
4. Tap **Yes** to confirm.

To assign downloaded tunes or tones:

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **My Ringtones**.
3. Tap the tune or tone you want.
4. Tap one of the following options to select:
 - **Set As Ringtone:** Sets the tune or tone as the call ringtone.
 - **Set As Contact ID:** Sets the tune or tone as a caller ID ringtone.
 - **Set As Alert Sound:** Sets the tune or tone as one of **All Messages / Text Messages / Multimedia Messages / Voicemail**.

MY MUSIC

The My Music menu allows you to play back and manage music files stored on a memory card.

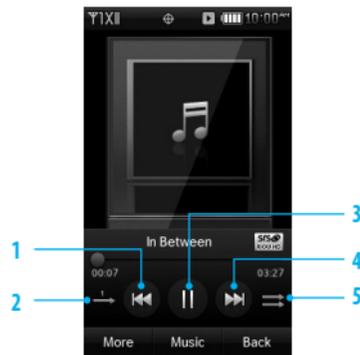
- Slide the phone up and tap **My Music**. You can also press and hold .
- Tap one of the following options to select:
 - Play All Songs:** Allows you to play all songs.
 - All Songs:** Allows you to view or play all songs.
 - Playlists:** Allows you to create or view playlists. Once you have created playlists, you can play songs by playlist.
 - Artists:** Allows you to view or play your songs by artist.
 - Genres:** Allows you to view or play your songs by genre.
 - Albums:** Allows you to view or play your songs by album.
 - Manage My Music:** Allows you to manage your music files.
 - Sync Music:** Synchronizes music files with a PC.
 - Music Alert:** Allows you to set the music alert.
 - Sound Effect:** Changes the sound effects.
 - Airplane Mode:** Activates Airplane mode. Refer to [page 59](#).
 - Music Only Mode:** Activates Music Only mode. Refer to [page 59](#).

PLAYING MUSIC

- Slide the phone up and tap **My Music**. You can also press and hold .
- Tap a music category.
- Tap a music file from the category.

During playback, rotate the phone counter-clockwise and scroll left or right to an album. Tap the desired album to view the music file list or to play a music file.

- Control playback with the following keys:



Number	Function
1	Skips backward. Scans backward in a file (tap and hold).
2	Changes the repeat mode (Repeat Off, Repeat All, Repeat Track).
3	Pauses playback. Tap  to resume playback.
4	Skips forward. Scans forward in a file (tap and hold).
5	Turns Shuffle mode on or off.

- Tap **More** and adjust the following options during playback:

- Shop Music:** Connects to Media Center and download a variety of music files.
- Song Info:** Displays the information about the currently playing music file.
- Sound Effect:** Changes the sound effects (**SRS WOW HD** / **Normal** / **SRS CS Headphone**).
- Airplane Mode:** Activates Airplane mode (**ON** / **OFF**). Refer to [page 59](#).
- Music Only Mode:** Activates Music Only mode (**ON** / **OFF**). Refer to [page 59](#).

CREATING A PLAYLIST

1. Slide the phone up and tap **My Music**. You can also press and hold  .
2. Scroll down and tap **Playlists**.
3. Tap **Yes** to create a new playlist.
If there are saved playlists, tap **Create New**.
4. Enter a title for your playlist and tap **Done**.
5. Tap the music files you want to include and tap **Done**.

MY SOUNDS

To select a desired sound:

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **My Sounds**.
3. Tap  next to the sound you want to play. To stop, tap .
4. Tap a sound file. The following options are available:
 - **Send**: Allows you to send the sound as a picture message.
 - **To Online Album**: Allows you to upload the selected tone to the online server.
 - **Rename**: Renames the sound.
 - **Move To Card / Move To Phone**: Allows you to move the selected sound to the memory card or to the phone memory.
 - **Lock / Unlock**: Locks or unlocks the sound.
 - **Erase**: Deletes the sound.
 - **File Info**: Allows you to view the properties of the sound.

 The preloaded sounds cannot be renamed, locked, or deleted.

RECORDING NEW SOUNDS

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **My Sounds**.
3. Tap **More** and then tap **Record New**.
4. Tap **Record** to begin recording.
5. Tap **Stop** to finish recording. The recording is automatically saved to the **My Sounds** menu.

SYNC MUSIC

Allows you to synchronize your music files from PC to your phone. In order to use this option, you must insert a microSD™ card and plug in the USB cable (included inbox) to your phone and connect it to a USB port on your PC.

1. Slide the phone up, tap **Media Center** and then tap **Music & Tones**.
2. Tap **Sync Music**.
3. Drag and drop the song(s) you want to sync from your PC to corresponding folders. Once synchronization is complete, tap **Cancel** or the Home Key, and disconnect the USB cable (included inbox).
4. Under **Music & Tones** menu, open **My Music** to view and play your music files.

PICTURE & VIDEO

SHOP PICTURES

To connect to Media Center and download a variety of pictures:

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **Shop Pictures**.
3. Follow the on-screen prompts and download pictures to your phone.

MY PICTURES

The My Pictures menu allows you to view all the pictures you have taken, store selected images in your phone, send pictures to the Online Album, delete images and access additional picture options.

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **My Pictures**.
3. Tap the desired picture and then tap **More** to access to the following options:
 - **Move To Card / Move To Phone**: Allows you to move the selected photo to the memory card or to the phone memory.
 - **Lock/Unlock**: Locks or unlocks the photo.
 - **Erase**: Deletes the photo.

- **Camera:** Capture a new photo.
- **Shop pictures:** Connects to Media Center and download a variety of pictures.
- **File Info:** Displays the following information about the selected photo:
[File Name](#) / [Date](#) / [Time](#) / [Resolution](#) / [File Size](#)

DELETING A PICTURE

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **My Pictures**.
3. Tap **More** and then tap **Erase**.
4. Tap the picture to be deleted and tap **Erase**.
5. Tap **Yes** to confirm.

V CAST VIDEOS

V CAST Videos is a service that provides various kinds of video clips such as TV show, sports, and other entertainments. You can enjoy videos by downloading them to your phone.

1. Slide the phone up, from Menu mode, tap **V CAST Videos**.
2. Navigate through the sub-menus and find a video you can download (not all videos are available for downloading).
3. Scroll to the video clip you want, then read the description of the video clip and tap the picture on right .
4. Tap **Save Video**.
5. Tap **Yes** to accept the charges. Tap **Phone Memory** or **Memory Card** to select a memory location for saving the video and the video clip will begin downloading.
6. When the video is finished downloading, a message will appear on your phone.
7. Tap **Yes** and the video clip will begin playing and will be automatically saved in **My Videos**.

MY VIDEOS

The My Videos menu allows you to view all the videos you have recorded, store selected videos in your phone, send videos to the Online Album, delete videos, and access additional video options.

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **My Videos**.
3. Tap the desired video and then tap **More** to access the following options:
 - **Move To Card / Move To Phone:** Allows you to move the selected video to the memory card or to the phone memory.
 - **Lock/Unlock:** Locks or unlocks the video.
 - **Erase:** Deletes the video.
 - **Camera:** Records a new video.
 - **File Info:** Displays the following information about the selected video:
[Name](#) / [Date](#) / [Time](#) / [Duration](#) / [File Size](#)

TAKE PICTURE

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **Take Picture**.
3. Take a picture. Refer to [page 82](#) for taking a picture.

RECORD VIDEO

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **Record Video**.
3. Record a video. Refer to [page 85](#) for recording a video.

ONLINE ALBUM

To access Online Album:

1. Slide the phone up, tap **Media Center** and then tap **Picture & Video**.
2. Tap **Online Album**.
3. Follow the on-screen prompts.

GAMES

DOWNLOADING NEW GAMES

To download games and applications:

1. Slide the phone up and tap **Games**.
2. Tap **Shop Application**.
3. Follow the on-screen prompts and download games to your phone.

PLAYING DOWNLOADED GAMES

1. Slide the phone up and tap **Games**.
2. Select the game you want and tap **Play**.

DELETING A DOWNLOADED GAME

1. Slide the phone up and tap **Games**.
2. Tap **More** and then tap **Erase**.
3. Tap the application to be deleted and then tap **Erase**.
4. Tap **Yes** to confirm.

 Applications may vary by wireless device model.

BROWSER

The Browser allows you to connect to the Internet and navigate web pages. Accessing the web may incur additional charges.

1. Slide the phone up and tap **Browser** .
2. Follow the on-screen prompts.

BROWSE & DOWNLOAD

DOWNLOADING NEW APPLICATIONS

To download tools that can help you navigate to entertainment spots, restaurants, and provide you with up-to-date weather information:

1. Slide the phone up, tap **Media Center** and then tap **Browse & Download**.

2. Tap **Shop Application**.
3. Follow the on-screen prompts.

DOWNLOADING CITY ID

The City ID application allows you to view the city and state information of the currently connected phone number while making or receiving a call or during a call.

1. Slide the phone up, tap **Media Center** and then tap **Browse & Download**.
2. Tap **City ID**.
3. Follow the on-screen prompts.



The free trial is available when you use the application for the first time. If the free trial period expires, the subscribe notification will appear.

EXTRAS

DOWNLOADING NEW APPLICATIONS

To download Applications:

1. Slide the phone up, tap **Media Center** and then tap **Extras**.
2. Follow the on-screen prompts.

DIRECTIONS

The Directions menu allows you to find locations, search local information, and get directions while on the move.

1. Slide the phone up and tap **Directions**.
2. To download the application, tap **Purchase** and follow the on-screen prompts.

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MESSAGING MENU 7

This chapter addresses messaging functions that allow you to send and receive messages.

Messaging functions including:

- NEW MESSAGE NOTIFICATION
- CREATING A NEW MESSAGE
- VIEWING RECEIVED AND SENT MESSAGES
- DELETING RECEIVED AND SENT MESSAGES
- VIEWING DRAFT MESSAGES
- DELETING DRAFT MESSAGES
- MANAGING THE TEMPLATE BOX
- CHANGING THE MESSAGE SETTINGS
- ACCESSING YOUR VOICEMAILS
- ACCESSING VISUAL VOICEMAILS
- EMAIL & IM



NEW MESSAGE NOTIFICATION

When a new message notification appears on the screen, tap **View Now** to view the message, or tap **View Later** to review at another time.

CREATING A NEW MESSAGE

You can create text messages, picture messages, video messages, and voice messages.

TEXT MESSAGE

1. Slide the phone up and tap **Message** .
2. Tap **New Message** and then tap **Text Message**.
3. Tap the **Add Recipient** field and tap the option you want to retrieve a number from. To enter a number manually, tap **Enter Number**.
4. Select or enter a phone number or an email address, and tap **Done**.
5. Tap the **Add Text** field.
6. Enter the message text and tap **Done**.
While entering text, you can add a template, graphic, sound, name card, or change formatting of text or language by tapping **More**.

 To use the virtual QWERTY Keyboard, rotate the phone counter-clockwise.

7. Tap **More** and use the following options:
 - **Save as Draft:** Saves the message in the draft box.
 - **Priority Level:** Changes the priority level of the message.
8. Tap **Send** to send the message.

PICTURE MESSAGE

1. Slide the phone up and tap **Message** .
2. Tap **New Message** and then tap **Picture Message**.
3. Tap the **Add Recipient** field and tap the option you want to retrieve a number from. To enter a number manually, tap **Enter Number**.
4. Select or enter a phone number or an email address, and tap **Done**.

5. Tap the **Add Picture** field.
6. Tap a picture and then tap **Add to Message**.
7. Tap the text field.

 When **Callback #** is set to on, the callback number is automatically inserted to the text field.

8. Enter the message text and tap **Done**.
-  To use the virtual QWERTY Keyboard, rotate the phone counter-clockwise.
9. Tap the **Add Sound** field and then tap a sound file.
10. Tap the **Add Subject** field.
11. Enter the message subject and tap **Done**.
12. If necessary, tap the name card field and then tap **My Name Card** or **From Contacts**. If **From Contacts** is chosen, tap the desired contact.
13. Tap **More** and use the following options:
 - **Preview:** Allows you to preview the message.
 - **Save as Draft:** Saves the message in the draft box.
 - **Add Slide:** Adds another slide to the message.
 - **Remove Picture / Sound / Slide:** Deletes the added picture, sound or slide.
 - **Priority Level:** Changes the priority level of the message.
14. Tap **Send** to send the message.

VIDEO MESSAGE

1. Slide the phone up and tap **Message** .
2. Tap **New Message** and then tap **Video Message**.
3. Tap the **Add Recipient** field and tap the option you want to retrieve a number from. To enter a number manually, tap **Enter Number**.
4. Select or enter a phone number or an email address, and tap **Done**.
5. Tap the **Add Video** field.
6. Tap a video and then tap **Add to Message**.

7. Tap the text field.

 When **Callback #** is set to on, the callback number is automatically inserted to the text field.

8. Enter the message text and tap **Done**.

 To use the virtual QWERTY Keyboard, rotate the phone counter-clockwise.

9. Tap the **Add Subject** field.10. Enter the message subject and tap **Done**.11. If necessary, tap the name card field and then tap **My Name Card** or **From Contacts**. If **From Contacts** is chosen, tap the desired contact.12. Tap **More** and use the following options:

- **Preview**: Allows you to preview the message.
- **Save as Draft**: Saves the message in the draft box.
- **Remove Video**: Deletes the added video.
- **Priority Level**: Changes the priority level of the message.

13. Tap **Send** to send the message.

VOICE MESSAGE

1. Slide the phone up and tap **Message** .2. Tap **New Message** and then tap **Voice Message**.3. Tap **Record** to start recording your voice.4. When you are finished, tap **Stop** to stop recording.5. Tap **Add to Message** to add it to the message.6. Tap the **Add Recipient** field and then tap the option you want to retrieve a number from. To enter a number manually, tap **Enter Number**.7. Select or enter a phone number or an email address, and tap **Done**.

8. Tap the text field.

 When **Callback #** is set to on, the callback number is automatically inserted to the text field.

9. Enter the message text and tap **Done**.

 To use the virtual QWERTY keyboard, rotate the phone counter-clockwise.

10. Tap the **Add Subject** field.11. Enter the message subject and tap **Done**.12. If necessary, tap the name card field and then tap **My Name Card** or **From Contacts**. If **From Contacts** is chosen, tap the desired contact.13. Tap **More** and use the following options:

- **Preview**: Allows you to preview the message.
- **Save as Draft**: Saves the message in the draft box.
- **Remove Voice Recording**: Deletes the added voice recording.
- **Priority Level**: Changes the priority level of the message.

14. Tap **Send** to send the message.

VIEWING RECEIVED AND SENT MESSAGES

When you access the Message menu, received and sent messages are displayed in the list. All stored messages are sorted and listed by time order.

To view a received or sent message:

1. Slide the phone up and tap **Message** .

2. Tap the message you want to view.

3. While viewing the message, tap **More** to access the following options:

- **Reply with Picture Msg**: Allows you to send a reply as picture message.
- **Reply with Video Msg**: Allows you to send a reply as video message.
- **Reply with Voice Msg**: Allows you to send a reply as voice message.
- **Erase**: Deletes the message.
- **Erase All Messages**: Delete all stored messages in the list.
- **Lock/Unlock**: Locks or unlocks the message.

DELETING RECEIVED AND SENT MESSAGES

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Erase**. To delete all messages, tap **Erase All Messages**.
3. Select the messages you want to delete and tap **Erase**.
4. Tap **Yes** to confirm.

VIEWING DRAFT MESSAGES

Draft messages are the messages you saved for editing and sending later.

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Drafts**.
3. Tap a draft message.
4. If necessary, edit and send the message. Tap **More** to use other editing options.

DELETING DRAFT MESSAGES

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Drafts**.
3. From the list, tap **More** and then tap **Erase**. To delete all messages, tap **Erase All Drafts**.
4. Tap the messages you want to delete and then tap **Erase**.
5. Tap **Yes** to confirm.

MANAGING THE TEMPLATE BOX

With the **Quick Text** menu, you can create, edit, and delete text templates. The stored templates are retrieved into a new message.

CREATING A NEW TEMPLATE

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Quick Text**.
3. Tap **New**.

4. Enter the message text and tap **Save**. The saved template is displayed on the top of the list.

EDITING A TEMPLATE

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Quick Text**.
3. Tap the template you want to edit.
4. Change the text and tap **Save**.

DELETING A TEMPLATE

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Quick Text**.
3. Tap **X** next to the template you want to delete.
4. Tap **Yes** to confirm.

CHANGING THE MESSAGE SETTINGS

You can customize the default settings for sending and receiving messages.

1. Slide the phone up and tap **Message** .
2. Tap **More** and then tap **Settings**. The following message settings are available:
 - **Inbox View**: Changes the display sort order of received messages.
 - **Language**: Changes the language for the display text.
 - **Entry Mode**: Changes the default text input mode.
 - **Auto Save Sent**: Allows you to set the phone to automatically save messages after sending them.
 - **Auto Erase Inbox**: Allows you to set the phone to automatically delete old messages when the message inbox is full.
 - **TXT Auto View**: Allows you to set the phone to display the message text when a new text message comes in.
 - **Multimedia Auto Receive**: Allows you to set the phone to automatically download media attachments when a picture, video, or voice message comes in.
 - **Voicemail #**: Allows you to change the voicemail number.
 - **Callback #**: Allows you to insert the callback number to the text input field.
 - **Signature**: Allows you to insert a signature to the end of the message.

- **Messaging Font Size:** Allows you to change the message font size.
- **Delivery Receipt:** Allows you to set the network to inform you when your messages are delivered.

ACCESSING YOUR VOICEMAILS

The Voicemail menu allows you to access your voicemail box and listen to voicemails.

1. Slide the phone up, tap **Voicemail**  and then tap **Call Voicemail**.
2. When you hear a system greeting, tap **Keypad** and tap # to interrupt it, if applicable.

 If you are registered for Visual Voice Mail (VVM), VVM application will be performed.

3. Follow the prompts to enter your password and retrieve your voicemails.

 The speed dial number **1** is assigned for your voicemail box. From the dial screen, tap and hold **1** as a speed dial to your voicemail.

ACCESSING VISUAL VOICEMAILS

The Visual Voicemail service provides you with a new way of accessing voicemails. You can view the list of voicemails and read voicemails, instead of listening to. You may be charged to use this service.

1. Slide the phone up and tap **Voicemail** .
2. Tap **Subscribe Visual Voicemail for \$2.99/month**.
3. After the voice prompts, tap **Purchase** to download the Visual Voicemail application and use the service.

EMAIL & IM

The Email & IM menu allows you to use email services and messenger service. You may be charged to use this service.

MOBILE EMAIL

The Mobile Email menu allows you to send and receive emails on your phone.

1. Slide the phone up, tap **Email & IM** and then tap **Mobile Email**.
2. Log into the website and use the email service.

MOBILE WEB MAIL

The Mobile Web Mail menu allows you to send and receive emails on the popular websites preset by your service provider.

1. Slide the phone up, tap **Email & IM** and then tap **Mobile Web Mail**.
2. Log into the webmail account and use the webmail service.

MOBILE IM

With Mobile IM, you can use the internet messenger service on your phone.

1. Slide the phone up, tap **Email & IM** and then tap **Mobile IM**.
2. Log into the mobile messenger and chat with your friends.

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SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Before operating your phone, please be aware of all the safety details. This chapter contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

SAFETY INFORMATION FOR WIRELESS
HANDHELD PHONES

HEARING AID COMPATIBILITY (HAC) FOR
WIRELESS TELECOMMUNICATIONS DEVICES

SAFETY INFORMATION FOR FCC RF EXPOSURE
SAR INFORMATION

FDA CONSUMER UPDATE
AVOID POTENTIAL HEARING LOSS
FCC COMPLIANCE INFORMATION
12 MONTH LIMITED WARRANTY



CRUX™

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

READ THIS INFORMATION BEFORE USING YOUR HANDHELD PORTABLE CELLULAR TELEPHONE

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *

NCRP Report 86 (1986) *

ICNIRP (1996) *

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C951).

The design of your phone complies with the FCC guidelines (and those standards).

1*: American National Standards Institute.

2*: National Council on Radiation Protection and Measurements.

3*: International Commission on Nonionizing Radiation Protection.

ANTENNA SAFETY

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Please contact your local dealer for replacement antenna.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

DRIVING SAFETY

Talking on the phone while driving is extremely dangerous and is illegal in some states. Remember, safety comes first. Check the laws and regulations on the use of phones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

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

If you must use the phone while driving, please use one-touch, speed dialing, and auto answer modes.

An airbag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the airbag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.



WARNING: Failure to follow these instructions may lead to serious personal injury and possible property damage.

ELECTRONIC DEVICES

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Therefore, use of your phone must be restricted in certain situations.

PACEMAKERS

The Health Industry Manufacturers Association recommends that a minimum separation of six (6") inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers:

- ALWAYS keep the phone more than six inches from your pacemaker when the phone is turned on.
- Do not carry the phone in a breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

HEARING AIDS

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider (or call the customer service line to discuss alternatives).

OTHER MEDICAL DEVICES

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy.

Your physician may be able to assist you in obtaining this information. Turn your phone OFF in healthcare facilities when any regulations posted in these areas instruct you to do so. Hospitals or healthcare facilities may be using equipment that could be sensitive to external RF energy.

VEHICLES

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft. Always request and obtain prior consent and approval of an authorized airline representative before using your phone aboard an aircraft.

Always follow the instructions of the airline representative whenever using your phone aboard an aircraft, to prevent any possible interference with airborne electronic equipment.

BLASTING AREAS

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

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Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle's engine.

PRECAUTIONS

Your Handheld Portable Telephone is a high quality piece of equipment. Before operating, read all instructions and cautionary markings on (1) USB AC Adapter (2) Battery and (3) Product Using Battery.

Failure to follow the directions below could result in serious bodily injury and/or property damage due to battery liquid leakage, fire or rupture.

- DO NOT use this equipment in an extreme environment where high temperature or high humidity exists.
- DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using, lay down the unit to avoid possible damage due to instability.
- DO NOT expose this equipment to rain or spilled beverages.
- DO NOT use unauthorized accessories.
- DO NOT disassemble the phone or its accessories. If service or repair is required, return unit to an authorized PCD cellular service center. If unit is disassembled, the risk of electric shock or fire may result.
- DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE

WARNING! READ THIS INFORMATION BEFORE USING

CAUTIONS

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2 cm. from the body. To maintain compliance requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm separation distance between the user's Body and the back of the phone, including the antenna.

The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



For more information about RF exposure, please visit the FCC website at <http://www.fcc.gov>

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SAR INFORMATION

THIS MODEL 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 the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. 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 and 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 is 1.6 W/kg. * Tests for SAR are conducted 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 antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model.

The highest SAR value for this model phone when tested for use at the ear is 1.25 W/Kg and when worn on the body, as described in this user guide, is 0.61 W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The SAR testing for Body-worn operation was performed with a belt clip that provided a 2.0 cm separation. The User's Manual indicates that any holsters/clips used with this device should contain no metallic components.

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines.

SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea> after searching on JYC_TOUCH.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.ctia.org>.

* 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.

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HEARING AID COMPATIBILITY (HAC) FOR WIRELESS TELECOMMUNICATIONS DEVICES

PCD'S COMMITMENT

PCD believes that all of our customers should be able to enjoy the benefits of digital wireless technologies.

We are committed to providing a selection of compatible devices for our customers who wear hearing aids.

THIS PHONE HAS A HAC RATING OF M4

WHAT IS HEARING AID COMPATIBILITY?

The Federal Communications Commission has implemented rules and a rating system designed to enable people who wear hearing aids to more effectively use these wireless telecommunications devices. The standard for compatibility of digital wireless phones with hearing aids is set forth in American National Standard Institute (ANSI) standard C63.19. There are two sets of ANSI standards with ratings from one to four (four being the best rating): an "M" rating for reduced interference making it easier to hear conversations on the phone when using the hearing aid microphone, and a "T" rating that enables the phone to be used with hearing aids operating in the telecoil mode thus reducing unwanted background noise.

HOW WILL I KNOW WHICH WIRELESS PHONES ARE HEARING AID COMPATIBLE?

The Hearing Aid Compatibility rating is displayed on the wireless phone box.

A phone is considered Hearing Aid Compatible for acoustic coupling (microphone mode) if it has an "M3" or "M4" rating.



A digital wireless phone is considered Hearing Aid Compatible for inductive coupling (telecoil mode) if it has a "T3" or "T4" rating.

HOW WILL I KNOW IF MY HEARING AID WILL WORK WITH A PARTICULAR DIGITAL WIRELESS PHONE?

You'll want to try a number of wireless phones so that you can decide which works the best with your hearing aids. You may also want to talk with your hearing aid professional about the extent to which your hearing aids are immune to interference, if they have wireless phone shielding, and whether your hearing aid has a HAC rating.

FOR MORE INFORMATION ABOUT HEARING AIDS AND DIGITAL WIRELESS PHONE

- FCC Hearing Aid Compatibility and Volume Control – <http://www.fcc.gov/cgb/dro/hearing.html>
- Hearing Loss Association of America – <http://www.hearingloss.org/learn/cellphonetech.asp>
- CTIA – <http://www.accesswireless.org/hearingaid/>
- Gallaudet University, RERC – <http://tap.gallaudet.edu/voice>

FDA CONSUMER UPDATE



U.S. FOOD AND DRUG ADMINISTRATION - CENTER
FOR DEVICES AND RADIOLOGICAL HEALTH
CONSUMER UPDATE ON WIRELESS PHONES

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1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the idle mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists. Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function;

and

- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some inter-agency working group activities, as well. FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term “wireless phone” refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head.

These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be predisposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health. Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures.

However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

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The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects. Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fda.gov> (under "c" in the subject index, select **Cell Phones > Research**)) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance.

For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna. Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones.

This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was

completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a “compatible” phone and a “compatible” hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones (<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>)
- Federal Communications Commission (FCC) RF Safety Program (<http://www.fcc.gov/oet/rfsafety>)
- International Commission on Non-Ionizing Radiation Protection (<http://www.icnirp.de>)
- World Health Organization (WHO) International EMF Project (<http://www.who.int/peh-emf/en/>)
- National Radiological Protection Board (UK) (<http://www.hpa.org.uk/radiation/>)

AVOID POTENTIAL HEARING LOSS

Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as portable music players and cellular telephones, at high volume settings for long durations may lead to permanent noise-induced hearing loss. This includes the use of headphones (including headsets, earbuds and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound and distorted hearing. Individual susceptibility to noise-induced hearing loss and other potential hearing problems varies.

The amount of sound produced by a portable audio device varies depending on the nature of the sound, the device, the device settings and the headphones. You should follow some commonsense recommendations when using any portable audio device:

- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise.
- Limit the amount of time you listen. As the volume increases, less time is required before your hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.

- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

YOU CAN OBTAIN ADDITIONAL INFORMATION ON THIS SUBJECT FROM THE FOLLOWING SOURCES:

AMERICAN ACADEMY OF AUDIOLOGY

11730 Plaza American Drive, Suite 300

Reston, VA 20190

Voice: 800-AAA-2336

Email: infoaud@audiology.org

Internet: <http://www.audiology.org>

NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS NATIONAL INSTITUTES OF HEALTH

31 Center Drive, MSC 2320

Bethesda, MD USA 20892-2320

Voice: (301) 496-7243

Email: nidcdinfo@nidcd.nih.gov

Internet: <http://www.nidcd.nih.gov/health/hearing>

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

1600 Clifton Rd

Atlanta

GA 30333. USA

Voice: 1-800-CDC-INFO (1-800-232-4636)

Internet: <http://www.cdc.gov/niosh/topics/noise/default.html>

- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.



CAUTION: Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

FCC COMPLIANCE INFORMATION

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

INFORMATION TO THE USER

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

- Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.

12 MONTH LIMITED WARRANTY

Personal Communications Devices, LLC. (the "Company") warrants to the original retail purchaser of this handheld portable cellular telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

The antenna, keypad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

This Warranty extends only to consumers who purchase the product in the United States or Canada and it is not transferable or assignable.

This Warranty does not apply to:

- (a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- (b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced;

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- (c) Damage from exposure to moisture, humidity, excessive temperatures or extreme environmental conditions;
- (d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- (e) Defects in appearance, cosmetic, decorative or structural items such as framing and nonoperative parts;
- (f) Product damaged from external causes such as fire, flooding, dirt, sand, weather conditions, battery leakage, blown fuse, theft or improper usage of any electrical source.

The Company disclaims liability for removal or reinstallation of the product, for geographic coverage, for inadequate signal reception by the antenna or for communications range or operation of the cellular system as a whole.

When sending your wireless device to Personal Communications Devices for repair or service, please note that any personal data or software stored on the device may be inadvertently erased or altered. Therefore, we strongly recommend you make a back up copy of all data and software contained on your device before submitting it for repair or service. This includes all contact lists, downloads (i.e. third-party software applications, ringtones, games and graphics) and any other data added to your device. In addition, if your wireless device utilizes a SIM or Multimedia card, please remove the card before submitting the device and store for later use when your device is returned, Personal Communications Devices is not responsible for and does not guarantee restoration of any third-party software, personal information or memory data contained in, stored on, or integrated with any wireless device, whether under warranty or not, returned to Personal Communications Devices for repair or service.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of Warranty coverage (e.g. dated bill of sale), the consumer's return address, daytime phone number and/or fax number and complete description of the problem, transportation prepaid, to the Company at the address shown below or to the place of purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you may telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 416-695-3060).

THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR AN SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states or provinces do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitation or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to province.

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