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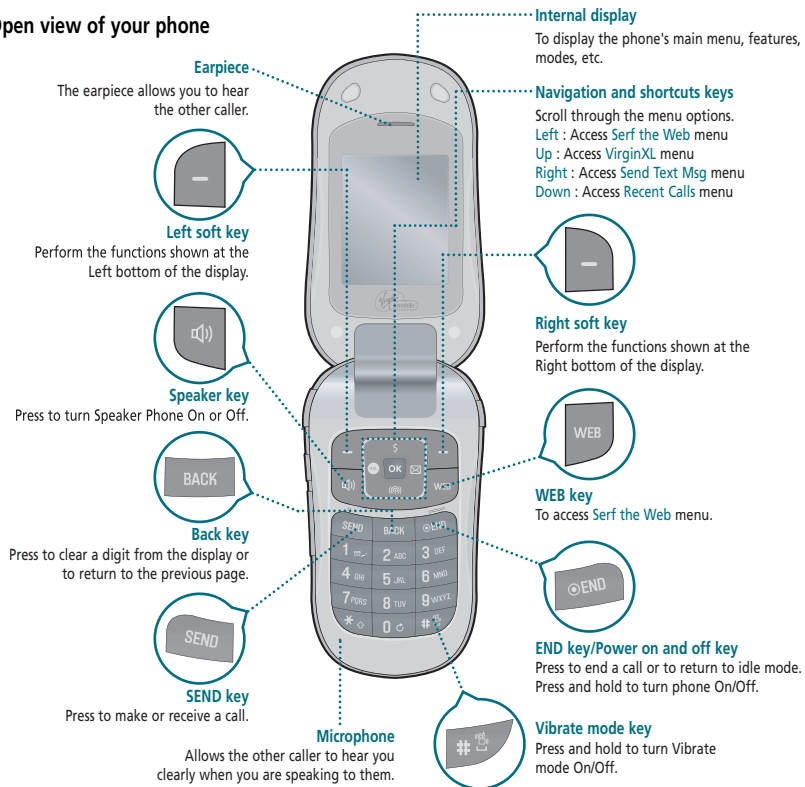
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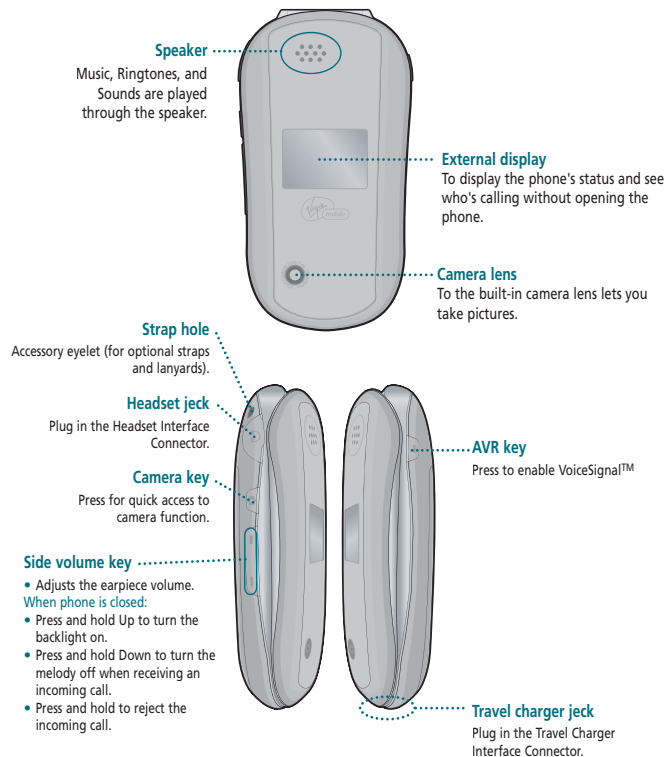
- Phone overview
- Menu overview
- Charging the battery
- Turn on/off the phone
- Display icons
- Entering text
- Activating your Virgin Mobile account
- Finding your phone's serial number
- Programming your phone

PHONE OVERVIEW

Open view of your phone



Closed view of your phone



MANU OVERVIEW

MAIN MENU	2ND DEPTH	3RD DEPTH
1. Messaging	<ul style="list-style-type: none"> 1. Send text msg 2. Send pic msg 3. Send email msg 4. Send IM 5. Inbox 6. Virgin Alerts 7. Voicemail 8. Sent 9. Saved 10. Msg settings 11. Erase msgs 	
2. Contacts	<ul style="list-style-type: none"> 1. Find name 2. Add new 3. Groups 4. Speed dial 5. My phone number 	
3. Recent Calls	<ul style="list-style-type: none"> 1. Missed calls 2. Received calls 3. Outgoing calls 4. All calls 5. Call timers 	
4. My Account		
5. VirginXL		
6. My Stuff	<ul style="list-style-type: none"> 1. My ringtones 2. My graphics 3. My games 4. My themes 5. My other stuff 	
7. Pictures	<ul style="list-style-type: none"> 1. Take a picture 2. My pictures 3. Send pic msg 4. Help 	
8. Surf the Web		

MAIN MENU	2ND DEPTH	3RD DEPTH
9. Tools&Settings	<ul style="list-style-type: none"> 1. Tools 2. Display 3. Sounds 4. Call options 5. Security 6. Msg settings 7. Game settings 	<ul style="list-style-type: none"> 1. Calendar 2. Alarm clock 3. Tip calculator 4. Calculator 5. World clock 6. Stopwatch 7. Voice command 8. Voice memo 1. Graphics 2. Menu style 3. Greeting banner 4. Contrast 5. Backlight 6. Themes 1. My ringtones 2. Msg tones 3. Service alerts 4. Volume 5. Power tone 6. Key tone 1. Call reminder 2. Call answer 3. Auto answer 1. Lock phone 2. Change lock code 3. Special numbers 4. Erase contacts 5. Erase downloads 6. Reset phone 1. Msg tones 2. Reminder 3. Text entry 4. Auto text 5. Save to sent 6. Signature 7. Groups 8. Auto erase 1. Volume 2. Backlight 3. Messaging

MAIN MENU	2ND DEPTH	3RD DEPTH
9. Tools & Settings	<ul style="list-style-type: none"> 8. Bluetooth 9. Others 10. Phone info 	<ul style="list-style-type: none"> 1. Language 2. Airplane mode 3. TTY mode 4. Location 1. My phone number 2. Version info

CHARGING THE BATTERY

About your battery

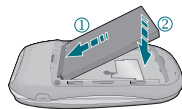
Your phone uses a Li-Ion battery. Make sure to use an authorized battery and charger only. For more details, please ask your nearest dealer.

To install/remove your battery

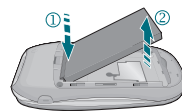
1. Remove the battery cover from the unit.



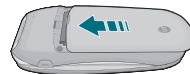
2. Slide the battery into the slot located at the bottom of the unit and press until you hear the "click".



3. To remove the battery, push down on the top of the battery and slide it out.



4. Slide the battery cover back into the unit.

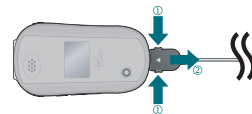


To charge your battery

1. To charge open the protective cover on the bottom and connect the charger adapter.



2. To remove the adapter connection press the adapter's side buttons(1) and pull.



■ TURN ON/OFF THE PHONE

To turn on

1. Press and hold [END].

To turn off

1. Press and hold [END].

■ DISPLAY ICONS

Display indicators

Icon	Name
	Signal strength or Airplane
	Calling/No Service/Emergency/ Speaker/Data*
	Ring type (Ringtone/Vibrate_Ring/ Silent/Vibrate)
	Text, Voice, Picture, WAP, Multi, Email, IM (Instant Message)
	Alarm/Schedule
	Bluetooth (On/Connected/Pairing)
	TTY/GPS (Location)/Lock Mode
	Battery (Strength/Charging)

* Network dependent

■ ENTERING TEXT

The input mode (Alpha editor) will automatically be activated when necessary to enter letters and numbers. As shown below, there are 4 available modes ; Standard input mode (Abc), Input mode (T9Abc), Numeric mode (123) and Symbols. The input mode indicator appears on the upper right of the display when letters and numbers are entered. To select the desired input mode among the 5 modes below, press *Options* and then select input mode.

Useful keys

Key	Function
	Press to accept a word and add a space.
	In T9Abc Mode, press to view the next matching word if the highlighted word is not the word you intended.
BACK	Press to delete a character to the left of the cursor.
OK	Confirm the letters and numbers you entered.
	Press to select a letter case of the standard text input or text input mode. and indicate the standard text input. and indicate the predictive text input.

To enter text using the keypad

Key	English	Spanish
1 Key	. @ ? ! - , & : ' / 1	
2 Key	a b c 2	a á b c 2
3 Key	d e f 3	d e é f 3
4 Key	g h i 4	g h i i 4
5 Key	j k l 5	
6 Key	m n o 6	m n ñ o ó 6
7 Key	p q r s 7	
8 Key	t u v 8	
9 Key	w x y z 9	
0 Key	0	

Predictive mode (T9Abc)

T9 mode automatically compares your keystrokes with an internal dictionary to determine the correct word. The most commonly used word will appear first. To use T9Abc mode, press *Options* > T9Abc.

1. Press *Options* > change the mode T9Abc.
2. Press [2 ABC] to [9 WXYZ] to input text.
For example, to write 'hello' press [4 GH]
[3 DEF] [5 JKL] [5 JKL] [6 MNO].
3. Press [/] key to search for the word.

Multi-tap input mode

Press the key labeled with the target letter once for the first letter; press it twice for the second letter, and so on.

1. Press *Options* > change the mode *Abc*.
2. Press [2 ABC] to [9 WXYZ] to input text repeatedly.
To write the letter "C", press [2 ABC] 3 times.

Numeric mode

You can input numbers in this mode.

1. Press *Options* > change the mode 123.
2. Press [1 =, -] to [9 WXYZ] to input numbers.

Symbol mode

Allows you to enter symbols.

1. Press *Options* > change the mode *Symbols*.
2. Press the number for the symbol, and the symbol appears in the text input screen.
3. To display more symbols, press [/].

■ ACTIVATING YOUR VIRGIN MOBILE ACCOUNT

Before you can start talking, messaging, or downloading, you need to activate service with Virgin Mobile. You need your phone's serial number to activate your Virgin Mobile account. To activate your account online go to www.virgin-mobileusa.com and click on Activate. Or call Virgin Mobile at 1-888-322-1122.

■ FINDING YOUR PHONE'S SERIAL NUMBER

To activate your Virgin Mobile account, you need your phone's serial number.

1. In standby mode, select *Menu > Tools&Settings > Phone info > My phone number*.
2. The serial number is under the letters MEID. It has 18 digits.

■ PROGRAMMING YOUR PHONE

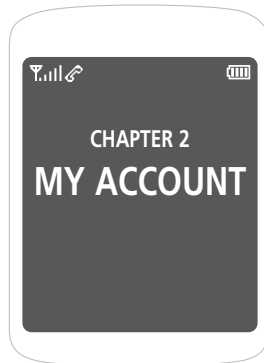
Once your account is active, you'll receive your Virgin Mobile phone number. When you are ready, follow these steps to program it into your phone:

1. Turn on your phone and wait for it to power up.
2. Dial **##VIRGIN#** (that's #-#-8-4-7-4-4-6-#)
3. You are now in the Programming menu. Scroll down to *Activate Phone > Select*.
4. Your screen will say, "Do you want to activate your phone?" > *Yes*.

5. Your phone will connect to the network, and then the screen will say "Hi. Press Start to continue the activation process". Scroll down to *Start > OK*.
6. Your phone will say "We're getting your phone number for you," then your phone will display your new Virgin Mobile phone number. Write it down.
7. Scroll down to *Finish > OK* to complete the activation process. Your phone will turn off and back on by itself.

That's it:

It might take a couple of hours to get you set up on our network, but we'll send a text message to your phone to let you know you can start talking. Also, it may take up to 4 hours for VirginXL, voicemail, and Top-Up features to come online. But it will be worth the wait. Enjoy!




My account
Checking your account balance
Top-Up your account
For more information

■ MY ACCOUNT

You can manage your Virgin Mobile account directly from your phone. The basic tasks are summarized in this chapter. For more information about your account, go to www.virginmobileusa.com.

■ CHECKING YOUR ACCOUNT BALANCE

You can check your Virgin Mobile account status two ways: In standby mode, press [] key or in standby mode, select *Menu > My Account*. Your account information appears with Top-Up information relative to your selected plan. When your account is low or empty, you receive a notification to Top-Up.


■ TOP-UP YOUR ACCOUNT

Top-Up is how you add money to your Virgin Mobile account. You can Top-Up your Virgin Mobile account right from your phone. First, buy a Top-Up card at the thousands of retailers that carry them or register your debit card, credit card, or PayPal account at www.virginmobileusa.com. When your balance is low, you can Top-Up your account from your phone.

Note:

Additional charges may apply for multiple balance checks in one day. Visit www.virginmobileusa.com for more details.

Top-Up with a Top-Up Card


1. In standby mode, press *Menu > My Account*.
2. Scroll down to the *Top-Up* link and press *OK* key.
3. Enter your Account Pin (vKey) and press *OK* key.
4. Scroll down to select *Login* and press *OK* key.
5. Enter your Top-Up card's PIN number and press *OK* key.
6. Scroll down to select *Top-Up Now* and press *OK* key.
7. You are now topped up. Press [] to exit.

Top-Up with a Debit Card, Credit Card, or PayPal Account

Before you can Top-Up from your phone with a debit card, credit card, or PayPal account, you need to register the card or PayPal account at www.virginmobileusa.com.

1. In standby mode, press *Menu > My Account*.
2. Scroll down to the *Top-Up* link and press *OK* key.
3. Enter your Account Pin (vKey) and press *OK* key.
4. Scroll down to select *Login* and press *OK* key.
5. Scroll down and select *Credit Card* or *PayPal*.
6. Enter the amount you want to Top-Up and press *OK* key. You can *Top-Up* in amounts of \$20, \$30, \$50, or \$90.
7. Scroll down to select *Top-Up Now* and press

OK key.

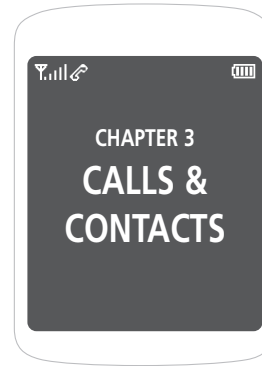
8. At the confirmation screen, select *Yes*.
9. You are now topped up. Press [] to exit.

Note:

You can also Top-Up at www.virginmobileusa.com.

■ FOR MORE INFORMATION

For more information about your Virgin Mobile account or Virgin Mobile service, visit www.virginmobileusa.com.



- Making, receiving & ending a call
 - Caller identification
 - Call waiting function
 - Speaker phone
 - Vibrate on/off mode
- Making an emergency call
 - Options during call
 - Call setting
- Checking all calls
 - Speed dialing
 - Using contacts
- Voice commands (AVR)
 - Using your headset

■ MAKING, RECEIVING & ENDING A CALL

To make a call

1. Enter the area code and phone number.
2. Press [**SEND**] key.

To answer a call

1. Press [**SEND**].

To end a call

1. Press [**END**].

Once the call is completed, a call summary is displayed.

To reject a call

1. Press [**END**] or *Ignore*.

To make a call using call list

Your phone logs up to 270 outgoing, received and missed call numbers.

1. In standby mode, press [**SEND**] to display the *Recent Calls* list.
2. Select a number.
3. Press [**SEND**] to dial the selected number.

Note:

- To redial the last number in the *Recent Calls* list, press [**SEND**].
- After 270 received, outgoing or missed calls, the oldest call will automatically be erased from the history.

To make a call using contacts

1. In standby mode, press *Contacts* to access the contacts list. Select the desired phone number and press [**SEND**].

To make a call during a call

1. Enter the phone number or look it up in *Contacts*.
2. Press [**SEND**] to dial the second call. The first call is automatically put on hold.

To adjusting the call volume

1. In standby mode, press *Side volume* key up or down to adjust the earpiece volume.

To insert a Time/Hard Pause feature



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.

1. Enter a phone number and then press *Options*. Select either *Hard Pause ("P")* or a *Time Pause ("T")*.

To switch between two calls

1. Press [**SEND**].

To reply to a missed call**

1. Press *View* to display the list of missed calls.
2. Select a number to call by pressing the [ / ] key.
3. Press [**SEND**].

To answer a second call**

1. Press [**SEND**]. The first call is automatically put on hold.
2. Press [**END**] to end the second call.

The call on hold is automatically reconnected.

■ CALLER IDENTIFICATION

Identifies caller by displaying their phone number. If the caller's name and number are already stored in your contact list, name will appear. The caller ID is stored in the Recent Calls Menu.

■ CALL WAITING FUNCTION

Notifies you of an incoming call when you are already on a call by sounding a beep tone and displaying the caller's phone number.


To answer another call while on the phone, press [**SEND**]. This places the first call on hold. To switch back to the first caller, press [**SEND**] again.

■ SPEAKER PHONE

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

To activate the Speaker Phone in idle mode or while on a call, press [].

■ VIBRATE ON/OFF MODE

In standby mode, press and hold #  to turn vibrate mode On/Off.

■ MAKING AN EMERGENCY CALL

The 911 feature automatically places the phone in Emergency Call Mode when you dial the preprogrammed emergency number, 911.

To making an call 911 in lock mode

1. Enter "911" and then press [**SEND**].
2. The phone maintains the Emergency Mode for 5 minutes.

To making an call 911 using any available system

1. Enter "911" and then press [**SEND**].
2. The phone will stay in Emergency Mode for 5 minutes. While the phone is in Emergency Mode for 5 minutes, the phone can receive an incoming call from any available system or you can make outgoing calls even in the Emergency Callback Mode.

■ OPTIONS DURING A CALL

Microphone off and on

To switch your phone's microphone off

1. Press *Mute*.

To switch your phone's microphone back on

1. Press *Unmute*.

To talk on speaker

1. Press *Speaker*.

To put a call on hold and return**

To put a call on hold

1. Press [*SEND*].

To return to a held call

1. Press [*SEND*] again.

To save a number in contacts list during a call

1. Press *Options* > *Save*.

To search a number in contact list during a call

1. Press *Options* > *Contacts* > *Contact List*.
2. Select a number > [*SEND*].

To search for a name or group in contact list

Enter the first letters of the name for Name Search. The entries are displayed starting with the first entry matching your input.

To find a name manually in contact list

1. Press the [ / ] key.

To view the details of highlighted entry in contact list

1. Press *OK*.

For contacts, see page 20.

To search a number in recent calls during a call

1. Press *Options* > *Recent Calls*.

To read a message during a call

1. Press *Options* > *Messaging* > *Inbox* > select a message.

To write a text message during a call

1. Press *Options* > *Messaging* > *Send Text Msg*.

For creating message, see page 28.

Note:

During the call, you can only send text messages.

Multimedia messages cannot be sent, but can be saved.

■ CALL SETTING

To set call reminder

1. In standby mode, press *Menu* > *Tools&Settings* > *Call options* > *Call reminder*.
2. Select *Every 2 Minutes*, *Every 10 Minutes* or *Off* > *Select*.


To set auto answer

1. In standby mode, press *Menu* > *Tools&Settings* > *Call options* > *Auto answer*.
2. Select *5 Seconds*, *10 Seconds*, *20 Seconds* or *Off* > *Select*.

To answer with any key press

1. In standby mode, press *Menu* > *Tools&Settings* > *Call options* > *Call answer*.
2. Select *Flip open + any Key* > *Select*.

Note:

You can answer with any key except [] and *Reject*.

■ CHECKING ALL CALLS

You can view information about all *Recent Calls*. For more options for all, missed, received and outgoing calls press *Options*.

To view all calls

1. In standby mode, press *Menu* > *Recent Calls* > *All calls*.
2. Select the call list and press *OK* to view the details.

To view missed calls

1. In standby mode, press *Menu* > *Recent Calls* > *Missed calls*.
2. Select the missed call and press *OK* to view the details.

To view received calls

1. In standby mode, press *Menu* > *Recent Calls* > *Received calls*.
2. Select the received call and press *OK* to view the details.

To view outgoing calls

1. In standby mode, press *Menu* > *Recent Calls* > *Outgoing calls*.
2. Select the outgoing call and press *OK* to view the details.

To send a message with recent call list

1. Press *Options*.
2. Select *Send text msg* or *Send pic msg*.
3. Write the message > *Send*.

To delete call logs

1. Press *Options* > *Erase* > *Yes*.

Note:

If no logs exist, the message "No Call exist" appears.

To view total call time

1. In standby mode, press *Menu* > *Recent Calls* > *Call timers*.
2. Select *Last call* or *Recent calls* > *Select*.
3. Displays usage time of last call or recent calls > *Done*.

■ SPEED DIALING

You can dial quickly using speed dialing. Nineteen numbers from 2 to 10 can be saved.

To set speed dial

1. In standby mode, press *Menu* > *Contacts* > *Speed dial*.
2. Select an empty entry > *Assign*.
3. Select a person > Select phone number > *Done*.

To update speed dial

1. Select a number and press *Reassign* > *Yes*.
2. Select a person > Select phone number > *Done*.

To remove from speed dial

1. Select a number and press *Erase* > *Yes*.

■ USING CONTACTS

You can save names, phone numbers, and up to 500 contacts in the phone.

To add a contact

1. In standby mode, press *Menu* > *Contacts* > *Add new*.
2. To edit a new contact > *Save*.

To view contact list

1. In standby mode, press *Menu* > *Contacts* > *Find name*.

To search for a phone number

1. In standby mode, press *Menu* > *Contacts* > *Find name*.
2. Input a name.
3. Press *OK* to view the details.

To call from contact list

1. In standby mode, press *Menu* > *Contacts* > *Find name*.
2. Select a contact > [*SEND*].

To forward contact details

1. In standby mode, press *Menu* > *Contacts* > *Find name*.
2. Select a contact > *Send msg*.
3. You can send the information via *Send text msg* or *Send pic msg*.
4. Write the message > *Send*.

To delete a contact

1. In standby mode, press *Menu* > *Contacts* > *Find name*.
2. Select a contact > *Options* > *Erase*.

To make groups

1. In standby mode, press *Menu* > *Contacts* > *Groups*.
2. Select an empty entry > *Edit*.

3. To edit a group options > *Save*.

To send a group message

1. In standby mode, press *Menu* > *Contacts* > *Groups*.
2. Select an existing group and press *Options* > *Send text msg* or *Send pic msg* > *OK*.
3. Write the message > *Send*.

To add member in group

1. In standby mode, press *Menu* > *Contacts* > *Groups*.
2. Select an existing group and press *Options* > *Add member*.
3. Select wish to add member > *Select*.

To erase a group

1. In standby mode, press *Menu* > *Contacts* > *Groups*.
2. Select an existing group and press *Options* > *Erase* > *Yes*.

To view your phone number

1. In standby mode, press *Menu* > *Contacts* > *My phone number*.

■ VOICE COMMANDS (AVR)

Your phone is equipped with an AVR (Advanced Voice Recognition) 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 the phone will recognize your voice and complete tasks by itself.

To using AVR (Advanced Voice Recognition)

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice command*. Or, in standby mode, press the *Side AVR* Key.
2. The phone displays the Command 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 say the name of the command after you hear a beep.

Call <Name or #>

1. 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.

Send text <Name or #>

1. Say *Send Text <Name>*.
(Examples: - Send Text Tom Smith)

Follow instructions for sending a new message on page 26.

Send picture <Name or #>

1. Say *Send Picture <Name>*.
(Examples: - Send Picture Tom Smith)

Follow instructions for sending a new message on page 26.

Lookup <Name>

1. Say *Lookup <Name>*.
(Examples: - Lookup Tom Jones)
2. The View Contact page will be displayed for that contact name.

Go to <Menu>

1. Say *Go To* followed immediately by one of the items: (Recent Calls, Contacts, Messaging, Virgin XL, Surf the Web, My Stuff, Pictures, Tools&Settings)

Check <Item>

1. Say *Check* followed immediately by one of the items: (Status, Voicemail, Messages, Missed Calls, Time, Signal Strength, Network, Battery, My Phone Number, Volume)

Tutorial

1. Press *Tutorial*. Tutorial will provide you with additional information on using Advanced Voice Recognition (AVR).

To set AVR settings

To set AVR confirmation

1. Press *Settings > Confirmation*.
2. You can control whether the system asks you to confirm a name or number.
3. Select *Automatic, Always Confirm* or *Never Confirm > OK*.

To set AVR adaptation

1. Press *Settings > Adaptation > Adapt Voice*.
2. Adaptation will take a couple of minutes to complete. Always use adapt voice feature in a quiet room.
3. Press *Start*.

To set AVR modes

1. Press *Settings > Modes*.
2. Use modes to set the level of audio assistance.
3. Select *Expert Mode, Prompt Mode* or *Readout Mode > OK*.

To set AVR speakerphone

1. Press *Settings > Speakerphone*.
2. You can control the speakerphone behavior when voice recognition is started.
3. Select *Automatic, Always On* or *Always Off > OK*.

To set AVR about

1. Press *Settings > About*.
2. The VoiceSignal version appears.

■ USING YOUR HEADSET

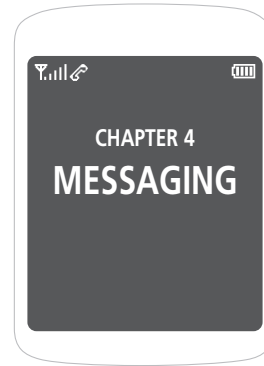
You can send or receive a call using your headset. When you connect your headset to the jack the button on the headset works as follows.

While in standby mode

1. Press the button once to list recent calls.
2. Press the button twice to redial the last call.

While the phone is closed

1. Press the button once to receive a call.
2. Press the button once to end the call.



- Messaging
 - Receive message
 - Voicemail
 - Sent message
 - Creating and send new message
 - Message templates
 - Create and send new multimedia message
 - Create and send new email message
 - Create and send new instant message
 - Virgin alerts
 - Erase messages
 - Messaging setting

■ MESSAGING

You can send, receive and save text messages and multimedia messages. Your phone supports unified messaging system. Unified messaging is the handling of voice, fax, and regular text messages as objects in a single mailbox. You can attach objects to message as multimedia message.

To delete message in each mailbox

1. Select a message > *Options* > *Erase* > *Yes*.

To reply the message

1. Select a message > *Select* > *View* > *Reply*.

■ RECEIVED MESSAGE

To view new received message

1. Press *View* or press *OK*.

To read message using inbox

1. In standby mode, press *Menu* > *Messaging* > *Inbox* > *OK*.
2. Select a received message > *OK*.

To save new numbers from received message

1. Select the new number of the received message.
2. Press *Options* > *Save Contact*.
3. Select *New entry* or *Existing entry*.
4. Edit contacts list > *Save*.

To launch email address from the received message

1. Open the message with email address is in.
2. Select the email address in the message.
3. Press *Options* > *Launch URL*.

To save the object in the received multimedia message

1. Open the multimedia message.
2. Select the object > *Options* > *Save attached*.

Note:

It will be saved in one of the categories in *My Stuff*.
For *My Stuff*, see page 33.

To listen to receive voice message

1. In standby mode, press *Menu* > *Messaging* > *Voicemail*.

It will automatically call the voice-mail center.

■ VOICEMAIL

New voicemail alerts are sent via an SMS text message. These messages indicate how many new and urgent voicemails are in your voicemail box. Open the text message to view the number of new voice messages in your voicemail. If a caller leaves a callback number, this number will also be sent via an SMS text message. Displays the number of voice mails and accesses them by pressing and holding the [*SEND*]

To setup your voicemail

Before your phone can receive voicemail messages, you must set up a 4-10 digit passcode and record a personal

voicemail greeting. When you have set up your voicemail, all unanswered calls to your phone are automatically transferred to voicemail, even if your phone is in use or turned off.

1. In standby mode, press *Menu* > *Messaging* > *Voicemail* or press and hold [*1* *msg.*].
2. Follow the system prompts to setup your password and record a greeting.

To access your voicemail box

1. In standby mode, press *Menu* > *Messaging* > *Voicemail* or press and hold [*1* *msg.*].
2. Follow the system prompts to enter your password and retrieve your messages.

■ SENT MESSAGE

To resend a sent message

1. In standby mode, press *Menu* > *Messaging* > *Sent*.
2. Select a sent message > *View* > *Send*.

To edit a sent message

1. In standby mode, press *Menu* > *Messaging* > *Sent*.
2. Select a sent message > *View* > *Options* > *Edit*.
3. To edit a message > *Send*.

To call with a sent message

1. In standby mode, press *Menu* > *Messaging* >

Sent.

2. Select a sent message > *View* > *Options* > *Call* or [*SEND*].

To forward message to other recipient number

1. In standby mode, press *Menu* > *Messaging* > *Sent*.
2. Select a sent message > *View* > *Options* > *Forward*.
3. Enter phone number > *Done* > *Send*.

To save sent message

1. In standby mode, press *Menu* > *Messaging* > *Sent*.
2. Select a sent message > *View* > *Options* > *Save msg.*

Note:

It will be saved in *Saved* folder.

To save new numbers from sent message

1. In standby mode, press *Menu* > *Messaging* > *Sent*.
2. Select a sent message > *View* > *Options* > *Save Contact*.
3. Select *New entry* or *Existing entry*.
4. Edit contacts list > *Save*.

■ CREATING AND SEND NEW MESSAGE

To send new text message

1. In standby mode, press *Menu* > *Messaging* > *Send text msg.*
2. Enter phone number or press *Options* > *Contacts.*
3. Find the recipient and check the box by pressing *Mark* > *OK* > *Done.*
4. Write the message > *Send.*
5. To view sent message press *Menu* > *Messaging* > *Sent.*

Note:

All successful or failed messages will be saved in *Sent.*

To find all sent messages

1. In standby mode, press *Menu* > *Messaging* > *Sent.*

■ MESSAGE TEMPLATES

When you often use same phrases you can save the message as a template message.

To save the message as a template

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Auto text* > *Options* > *New.*
2. Write a message > *Save.*

To edit the saved template message

1. In standby mode, press *Menu* > *Messaging* >

Msg settings > *Auto text.*

2. Select the message.
3. Press *Options* > *Edit.*
4. Edit a message > *Save.*

■ CREATE AND SEND NEW MULTIMEDIA MESSAGE

You can add picture, sound and other file to text message. When you add the object it will change to multimedia message. If message exceeds 300Kb an error message will pop up.

To send new multimedia message

1. In standby mode, press *Menu* > *Messaging* > *Send pic msg.*
2. Enter phone number or press *Options* > *Contacts.*
3. Find the recipient and check the box by pressing *Mark* > *OK* > *Done.*
4. Write the *Subject* > *Text* > *Image* > *Audio* > *Send.*
5. To view sent message press *Menu* > *Messaging* > *Sent.*

Note:

All successful or failed messages will be saved in *Sent.*

To add saved picture in the message

1. Press Navigation Key down to select under *Image* window.
2. Press *Pictures.*

3. Select a saved image > *Select.*

To add new picture in the message

1. Press Navigation Key down to select under *Image* window.
2. Press *Pictures* > *Camera.*
3. Take the picture.

To add saved sound in the message

1. Press Navigation Key down to select under *Audio* window.
2. Press *Audio.*
3. Select a saved sound > *Select.*

To add new sound in the message

1. Press Navigation Key down to select under *Audio* window.
2. Press *Audio* > *Record.*
3. Record the sound.

■ CREATE AND SEND NEW EMAIL MESSAGE

You can send and receive email messages from your phone. Check Virgin Mobile's web site at www.virginmobileusa.com for availability and pricing.

To send new email message

1. In standby mode, press *Menu* > *Messaging* > *Send email msg.*

To launch mobile email

1. In standby mode, press *Menu* > *My Stuff* > *My other stuff* > *Mobile Email.*

■ CREATE AND SEND NEW INSTANT MESSAGE

You can send and receive instant messages (IMs) from your phone. Check Virgin Mobile's Web site at www.virginmobileusa.com for availability and pricing.

To send new instant message

1. In standby mode, press *Menu* > *Messaging* > *Send IM.*

To launch instant message

1. In standby mode, press *Menu* > *My Stuff* > *My other stuff* > *Mobile IM.*
2. Scroll through items and highlight to select one.

To end instant message

1. In standby mode, press *Menu* > *My Stuff* > *My other stuff* > *Mobile IM.*
2. Press [⊙END].

■ VIRGIN ALERTS

To review the Virgin Alerts you've received

1. In standby mode, press *Menu* > *Messaging* > *Virgin Alerts* > *Go to.*

■ ERASE MESSAGES

To erase old messages to free up memory in your phone.

To erase all messages in each folders

1. In standby mode, press *Menu* > *Messaging* > *Erase msgs.*
2. Select *Inbox*, *Sent*, *Saved* or *All* > *Yes*.

■ MESSAGE SETTING

Before you can send or receive messages using your phone, you must configure their settings first. This information is normally pre-configured in the phone by your service provider.

To set message tones

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Msg tones*.
 2. Select *My ringtones* or *Vibrate Mode*.
 - **My ringtone:** Select desired ringtone > *Assign*.
- Note:**
To play ringtone, press *Play*.
- **Vibrate Mode:** Select *On* or *Off* > *Select*.

To set reminder message

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Reminder*.
2. Select *On* or *Off* > *Select*.

To set text entry mode

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Text entry*.
2. Select *Alpha* or *T9* > *Select*.

To set save to sent message

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Save to sent*.
2. Select *Auto*, *Off* or *User confirmation* > *Select*.

To set signature message

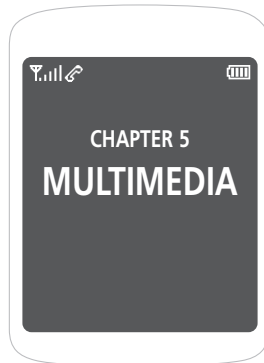
1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Signature*.
2. Check *Use signature* > Enter your signature in the text field > *Done*.

To create and edit the message group

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Groups*.
2. For instructions on how to create a group, see page 20.

To set auto erase message

1. In standby mode, press *Menu* > *Messaging* > *Msg settings* > *Auto erase*.
2. Select *Yes* or *No* > *Select*.



Camera
Pictures and image album
Music and sound album
Themes album
Other files
Playing game

■ CAMERA

You can take pictures using built-in camera. The photos can be saved and sent using multimedia message.



To set camera settings

1. In standby mode, press *Menu* > *Pictures* > *Take a picture*.
2. Press *Options* before you take a picture.

Icons for camera

Icon	Menu	Options
	Resolution	Display photo resolution 640x480, 320x240, 160x120, 128x96
	Zoom	1x, 2x, 4x
	Brightness	+2, +1 0 -1, -2

Settings for camera

Menu	Sub Menu	Options
Self portrait		
Self timer		Off, 5 Seconds, 10 Seconds, 15 Seconds
Fun frames		None, I love you, Clown, Mona Lisa, I miss you, Punch, Happy bus, Frame, Happy birthday, Monkey, Rabbit
Image controls	White balance	Auto, Sunny, Cloudy, Tungsten, Fluorescent
	Contrast	Level -2 ~ +2
	Color effect	Normal, Gray, Sepia, Negative
Settings	Resolution	640x480, 320x240, 160x120, 128x96
	Picture Quality	High, Medium, Low
	Shutter sound	Off, Default, Say "Cheese", "Ready! 123"

To increase or decrease the brightness

1. Press [/].

To zoom in and out

1. Press [/].

To take a picture

1. In standby mode, press *Menu* > *Pictures* > *Take a picture*.
2. Focus on the object > *OK*.

Note:

Your picture will be saved automatically to *My Stuff* > *My graphics* > *My pictures* or *Menu* > *Pictures* > *My pictures*.

To view the taken picture

1. In standby mode, press *Menu* > *Pictures* > *My pictures*.
2. Select the picture > *View*.
3. To use options > *Options*.

After taking pictures

Functions	Process
Set a photo for a specific contact	<i>Options</i> > <i>Assign</i> > <i>Caller ID</i>
Set as screensaver	<i>Options</i> > <i>Assign</i> > <i>Screensaver</i>
Set as standby screen	<i>Options</i> > <i>Assign</i> > <i>Wallpaper</i>
To upload web site	<i>Options</i> > <i>Upload to web</i>
Delete the picture	<i>Options</i> > <i>Erase</i>
Take a new picture	<i>Options</i> > <i>Take Pic</i>
Rename the picture	<i>Options</i> > <i>Rename</i>
Lock/Unlock the picture	<i>Options</i> > <i>Lock/Unlock</i>

View the information	<i>Options</i> > <i>File Info</i>
Delete all pictures	<i>Options</i> > <i>Erase All</i>

To send pictures using multimedia message

1. In standby mode, press *Menu* > *Pictures* > *Send pic msg*.
2. Select a picture.
3. Write the message, press *Send*.

■ PICTURES AND IMAGE ALBUM

You can view, assign, delete the saved pictures. The supported formats are JPEG, GIF, BMP, WBMP and PNG.

To view the downloaded or saved image and pictures

1. In standby mode, press *Menu* > *My Stuff* > *My graphics* > *My pictures*.
2. Select the picture > *View*.

To set as wallpaper in the display

1. In standby mode, press *Menu* > *My Stuff* > *My graphics* > *Wallpaper*.
2. Select a picture > *Assign*.
3. Select *Caller ID*, *Wallpaper* or *Screensaver* > *Select*.

To set as screensaver in the display

1. In standby mode, press *Menu > My Stuff > My graphics > Screensaver*.
2. Select a picture > *Assign*.
3. Select *Caller ID, Wallpaper* or *Screensaver > Select*.

■ MUSIC AND SOUND ALBUM

You can play, delete to phone the saved sounds. The supported formats are MIDI, SMAF, iMelody, MP3, WAV and AMR.

To listen the recorded sound

1. In standby mode, press *Menu > My Stuff > My ringtones*.
2. Select a sound > *Options > Play*.

To set as a ringtone

1. In standby mode, press *Menu > My Stuff > My ringtones*.
2. Select a sound > *Assign*.
3. Select *Contact, Group, All contacts* or *All callers > Select*.

■ THEMES ALBUM

To set as the theme

1. In standby mode, press *Menu > My Stuff > My themes*.
2. Select an image > *Select*.

■ OTHER FILES

You can manage files in unsupported formats saved on your phone. It also lists files received via Bluetooth from other devices.

To view the list of the files

1. In standby mode, press *Menu > My Stuff > My other stuff*.

To save the event to the calendar

1. In standby mode, press *Menu > My Stuff > My other stuff*.
2. Select the .vcs file (V-Calendar) > *Options > Save to calendar*. You can check the event in the calendar.

For calendar, see page 38.

To save the contact to the contacts

1. In standby mode, press *Menu > My Stuff > My other stuff*.
2. Select the .vcs file (V-Calendar) > *Options > Save to contact*. You can check the address in the contacts.

For contacts, see page 20.

To send sound file using multimedia message

1. In standby mode, press *Menu > My Stuff > My other stuff*.
2. Select a file > *Options > Send by > MMS*.

■ PLAYING GAME

Your phone contains game to play.

To play the game

1. In standby mode, press *Menu > My Stuff > My games*.
2. Select a game > *Run*.

To end the game

1. Press [] > *Yes*.

To set the game options

To set the game volume

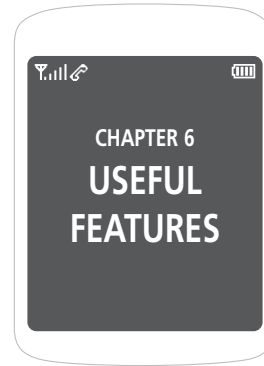
1. In standby mode, press *Menu > Tools&Settings > Game settings > Volume*.
2. Select *Silent* or *Level 1 ~ Level 5 > Select*.

To set the game backlight

1. In standby mode, press *Menu > Tools&Settings > Game settings > Backlight*.
2. Select *Disabled, 5 Seconds, 10 Seconds, 30 Seconds* or *Always On > Select*.

To display a receive messaging during a playing game

1. In standby mode, press *Menu > Tools&Settings > Game settings > Messaging*.
2. Select *Icon & Message* or *Icon only > Select*.



Calendar
Alarm
Calculator, Tip calculator, Stopwatch & World Clock
Voice memo

■ CALENDAR

Calendar helps you manage your schedule including your time for calls or special days. You can set alarm service on a set date with this function.





To view calendar

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Calendar*.

Note:

Monthly view is displayed as default.

In the monthly view

To	Press
Move to another day	[] for Previous [] for Next
Move to another week	[] for Previous [] for Next

To create a new event

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Calendar*.
2. Select a day > *New*.
3. On the *Edit schedule* screen, select and input an event item by item for registration > *Save*.

To edit a event

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Calendar*.
2. Select a saved event > *Edit*.

3. On the *Edit schedule* screen, select and edit an event item by item for registration > *Save*.

To erase a saved event

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Calendar*.
2. Select a saved event > *Erase* > *Yes*.

■ ALARM CLOCK

To set an alarm

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Alarm clock*.
2. Select location > *Select* > Edit a new alarm > *Save*.

To view the saved alarms

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Alarm clock*.

To edit existing alarms





1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Alarm clock*.
2. Select an existing alarm > *Select* > Edit an alarm > *Save*.

■ CALCULATOR, TIP CALCULATOR, STOPWATCH & WORLD CLOCK





To use the calculator

Use the Calculator for basic mathematical equations.

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Calculator*.

2. Enter the first number and use [ /  /  / ].

3. Enter the second number and press *OK* to calculate.

Use [ ] to use the decimal point, [ ] to use the change positive or negative.

To use tip calculator

The Tip Calculator helps you calculate how much tip to include with a bill.

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Tip calculator*.
2. Enter the amount of your bill and move the next field *Tip(%)*.
3. Enter the percentage amount to tip and move the next field *Split*.
4. Enter the amount of split number. The new bill amount is shown.





To use the stopwatch

The Stopwatch counts the time your spend for an activity.

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Stopwatch*.
2. Press *Start* to start stopwatch.
3. Press *Cont* to save Lap time (Max eight Lap time).

4. Press *Stop* to stop stopwatch.
5. Press *Reset* to reset stopwatch.

To use world clock

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *World clock*.
2. Use [ /  /  / ] to select different cities.
3. To set daylight saving, press *DST*.
4. Edit a DST item by item for registration > *Save*.

■ VOICE MEMO

To record voice memo

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice memo* > *New*.
2. To stop recording, press *Save*.

To listen to the recording voice memo

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice memo*.
2. Select recorded voice memo > *OK*.

To send voice memo using multimedia message

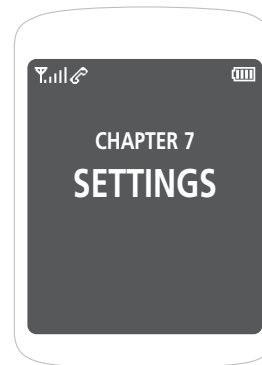
1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice memo*.
2. Select a voice memo > *Options* > *Send Message*.
3. Write the message > *Send*.

To rename saved voice memo

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice memo*.
2. Select a voice memo > *Options* > *Rename*.
3. Edit name > *Save*.

To erase saved voice memo

1. In standby mode, press *Menu* > *Tools&Settings* > *Tools* > *Voice memo*.
2. Select a voice memo > *Options* > *Erase* > *Yes*.



Ringtones, Alerts & Tones
Decorating the display
Call options
Security
Msg settings
Game settings
Bluetooth
To set other options
Phone info

■ RINGTONES, ALERTS & TONES

To set my ringtones

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *My ringtones*.
2. Select ringtones > *Assign*.

Note:

To play/stop sound, press *Play* or *Stop*.

To set msg tones

To set my ringtone

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Msg tones* > *My ringtones*.

2. Select ringtone > *Assign*.

Note:

To play/stop sound, press *Play* or *Stop*.

To set vibrate mode

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Msg tones* > *Vibrate Mode*.
2. Select *On* or *Off* > *Select*.

To set service alerts

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Service alerts*.
2. Select *Minute beep* or *Call connect* > *On* or *Off* > *Select*.

To set volume

To set the ringer volume

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Volume* > *Ringer volume*.
2. Select *Silent All*, *Vibrate*, *Low*, *Medium*, *High* or *High + Vibrate* > *Select*.

To set the voice call volume

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Volume* > *Voice call*.

2. Select *Level 1 ~ Level 5* > *Select*.

To set the speakerphone volume

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Volume* > *Speakerphone*.

2. Select *Level 1 ~ Level 5* > *Select*.

To set power tone on/off

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Power tone*.
2. Select *Power On Tone* or *Power Off Tone* > *On* or *Off* > *Select*.

To set key tone

1. In standby mode, press *Menu* > *Tools&Settings* > *Sounds* > *Key tone*.

2. Select *Silent*, *Level 1 ~ Level 5* > *Select*.

■ DECORATE THE DISPLAY

To set the graphics

To set the wallpaper

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Graphics* > *Wallpaper*.

2. Select *Main screen* or *External screen*.

3. Select wallpaper image > *Select*.

To set the screensaver timeout

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Graphics* > *Screensaver* > *Timeout setting*.

2. Select *5 Seconds*, *10 Seconds*, *20 Seconds*, *30 Seconds* or *Off* > *Select*.

To set the screensaver image

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Graphics* > *Screensaver* > *Screensaver*.

2. Select screensaver image > *Select*.

To set the main screen clock format

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Graphics* > *Clock format* > *Main screen*.

2. Select *Digital*, *Analog*, *Digital+Analog* or *Off*

> *Select*.

To set the external screen clock format

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Graphics* > *Clock Format* > *External screen*.

2. Select *Digital*, *Analog* or *Off* > *Select*.

To view the menu style

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Menu style*.

2. Select *Grid view* or *List view* > *Select*.

To enter greeting message

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Greeting banner*.

2. Edit greeting banner message, and press Navigation Key down, select *Font* color, and then press Navigation Key down, select *Outline* color > *Save*.

To set contrast display

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Contrast*.

2. Select *Highest*, *High*, *Medium*, *Low* or *Lowest* > *Select*.

To set time for backlight

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Backlight*.

2. Select *Display* or *Keypad* > *Disabled, 5 Seconds, 10 Seconds, 30 Seconds* or *Always On* > *Select*.

To set background image

1. In standby mode, press *Menu* > *Tools&Settings* > *Display* > *Themes*.
2. Select background image > *Select*.

■ CALL OPTIONS

In standby mode, press *Menu* > *Tools&Settings* > *Call options*.

For *Call options*, see page 18.

■ SECURITY

To access security menus

1. In standby mode, press *Menu* > *Tools&Settings* > *Security*.
2. Enter your password.

Note:

The default password is '0000'.

To lock your phone

1. Press *Lock phone*.
2. Select *Lock now, Lock on power on* or *Unlock* > *Select*.

To change the password

1. Press *Change lock code*.

2. Enter *New code* and enter again *Confirm code* > *Save*.

To set special numbers

1. Press *Special numbers*.
2. Select an entry number. (Special #1, Special #2, Special #3) > *Assign*.
3. Enter your desired phone number. > *Save*.

To erase special numbers

1. Press *Special numbers*.
2. Select an existing special number. > *Erase* > *Yes*.

To erase all contact lists

1. Press *Erase contacts* > *Yes*.

To erase all downloaded contents

1. Press *Erase downloads* > *Yes*.

To reset your phone

1. Press *Reset phone* > *Yes*.

■ MSG SETTINGS

In standby mode, press *Menu* > *Tools&Settings* > *Msg settings*.

For *Msg settings*, see page 30.

■ GAME SETTINGS

In standby mode, press *Menu* > *Tools&Settings* > *Game settings*.

For *Game settings*, see page 35.

■ BLUETOOTH

In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth*.

For *Bluetooth*, see page 48.

■ TO SET OTHER OPTIONS

Language

1. In standby mode, press *Menu* > *Tools&Settings* > *Others* > *Language*.
2. Select *English* or *Español* > *Select*.

Airplane mode

1. In standby mode, press *Menu* > *Tools&Settings* > *Others* > *Airplane mode*.
2. Select *On* or *Off* > *Select*.

TTY mode

1. In standby mode, press *Menu* > *Tools&Settings* > *Others* > *TTY mode*.
2. Select *Enable TTY* or *Disable TTY* > *Select*.

Location

1. In standby mode, press *Menu* > *Tools&Settings* > *Others* > *Location*.
2. Select *911 only* or *Location on* > *Select*.

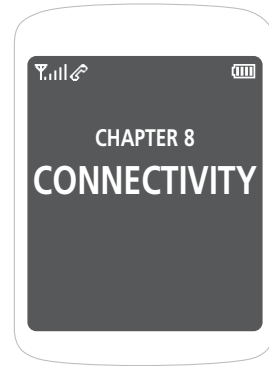
■ PHONE INFO

My phone number

1. In standby mode, press *Menu* > *Tools&Settings* > *Phone info* > *My phone number*.

Version info

1. In standby mode, press *Menu* > *Tools&Settings* > *Phone info* > *Version info*.



- Bluetooth
- Using the internet
- VirginXL
- My stuff

■ BLUETOOTH

Bluetooth technology connectivity enables wireless connections between electronic devices. If connected with a Bluetooth Handsfree device, you can use your phone more freely. With DUN, you can also use the phone as a wireless modem. It can also be used to connect wirelessly to products that use Bluetooth wireless technology, such as computers. You can synchronize your phone and your PC using Bluetooth connectivity. 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 1.1, supporting the following profiles: HSP V1.1 (headset profile), HFP V1.0 (handsfree car kit profile), DUN V1.1 (dial-up-networking), GAP (general access profile) and SPP V1.1 (serial port profile). To ensure interoperability between other devices supporting Bluetooth technology, use UTStarcom 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. If you want more information on this function, visit the Bluetooth Technology organization Web site: <https://www.bluetooth.org/>.

To access the Bluetooth menu

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth*.

To activate Bluetooth

The Power feature allows you to turn the Bluetooth function on and off.

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth*.
2. Press *On/Off*.

To add a device

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

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > *New Device* > *OK*.

Note:

If Bluetooth is set to off, "Turn Bluetooth power on?" will appear. Press *Yes* > *OK*.

2. Instructions (Place device you are connecting to in discoverable mode) will be displayed. Highlight the device and press *OK*.
3. The handset will prompt you for the passkey. Consult the Bluetooth accessory instructions for the appropriate passkey (typically "0000" - 4 zeroes).
4. Enter the passkey and press *OK*.

Note:

The default PIN code may differ depending on Bluetooth devices. Please refer to the user guide of the Bluetooth device that you wish to use.

5. Once pairing is successful, select *Yes* and press *OK* to connect with the device.
6. Once paired, you will see the device listed in the "New Device" menu.

To set the discovery mode

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > *Options* > *Discovery Mode*.
2. Select *On* or *Off* > *Select*.

To name the phone

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > *Options* > *My Phone Name*.

To set the supported profiles

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > *Options* > *Supported Profiles*.
2. Select *Headset*, *Handsfree* or *Contacts access* > *Select*.

To removing a device from the paired list

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > Select device > *Options* > *Remove Device*.

To renaming the paired device

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > Select device > *Options* > *Rename Device*.

To reviewing information about the paired device

1. In standby mode, press *Menu* > *Tools&Settings* > *Bluetooth* > Select device > *Options* > *Device Info*.

To call using hands-free

1. Press the button once to call the last person.

To receive a call using hands-free

1. Press the button once to receive the call.

■ USING THE INTERNET

To access internet

1. In standby mode, press *Menu > Surf the Web*.

Note:

It will access your Wireless Web service provider's homepage.

To view visited sites

1. In standby mode, press *Menu > Surf the Web > Menu > History*.
2. To open, press *Options > Open*.
3. To list by category, press *Options > Sort*.

To set new bookmarks

1. In standby mode, press *Menu > Surf the Web > Menu > Mark Page*.
2. Press *Options > Create New*.
3. To edit, press *Save*.

To view bookmarks

1. In standby mode, press *Menu > Surf the Web > Menu > Mark Page*.
2. Press *Options > View*.
3. To send via text message, press *Send by Msg*.

To search web site

1. In standby mode, press *Menu > Surf the Web > Menu > Search*.

To refresh the current page

1. In standby mode, press *Menu > Surf the Web > Menu > Reload*.

To show the image on the current page

1. In standby mode, press *Menu > Surf the Web > Menu > Show Link*.

To access the web site directly by entering the address

1. In standby mode, press *Menu > Surf the Web > Menu > Goto Page*.
2. Enter the web address > *GO*.

To go to the homepage

1. In standby mode, press *Menu > Surf the Web > Menu > Home*.

To send messages using the WAP server

1. In standby mode, press *Menu > Surf the Web > Menu > Send Link*.

To set enable/disable download objects

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Downloads*.

To restart web browser

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Restart Browser*.

To clear cache memory

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Clear > Check Clear Cache > Clear*.

To clear saved history

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Clear > Check Clear History > Clear*.

To clear saved cookies

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Clear > Check Clear Cookies > Clear*.

To clear autofill

1. In standby mode, press *Menu > Surf the Web > Menu > Settings > Clear > Check Autofill > Clear*.

■ VirginXL

To access VirginXL

1. In standby mode, press *Menu > VirginXL*.

With VirginXL, you can access music, entertainment, and information services from your phone. Download games, ringtones, wallpaper, screen savers, and other content; surf the web; and more. Check Virgin Mobile's Web site at www.virginmobileusa.com for availability and pricing, or check directly from your phone using VirginXL. Charges apply.

Note:

You cannot receive incoming calls during a VirginXL session. All incoming calls are automatically sent to your voicemail.

Note:

A scroll bar on the right side of the screen indicates that there is more text. Scroll down to go to the next screen of text. Press the CLR key to move back one screen.

Ending a VirginXL session

1. Press [**END**].

■ MY STUFF

To access my ringtones

1. In standby mode, press *Menu > My Stuff > My ringtones > Get more ringtones > Go*.

To access my graphics

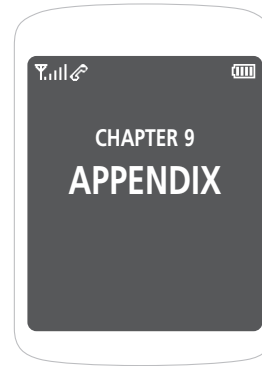
1. In standby mode, press *Menu > My Stuff > My graphics > Get more graphics > Select*.

To access my games

1. In standby mode, press *Menu > My Stuff > My games > Get more games > Go*.

To download other stuff

1. In standby mode, press *Menu > My Stuff > My other stuff > Get more stuff > Go*.



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■ ABOUT THE BATTERY USAGE

Your phone is powered by a Lithium Ion (Li-Ion) battery. This means that, unlike other forms of battery technology, you can recharge your battery while some charge remains without reducing your phone's autonomy due to the "battery memory effect" inherent in those technologies.

- Do not use a damaged battery or charger.
- Do not disassemble or open crush, bend or deform, puncture or shred
- Do not 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.
- Do not put your battery into contact with conductive objects.
- Dispose of and recycle used batteries in accordance with local regulations. Do not dispose of batteries by burning; they may explode.
- Do not use an unauthorized charger.
- Only use the battery for the system for which it is specified
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery

that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an unqualified battery may present a risk of fire, explosion, leakage or other hazard.

- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping 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 severe center for inspection.
- Use your battery for the specified purpose only.
- The closer you are to your network's base station, the longer your phone usage time because less battery power is consumed for the connection.
- The battery recharging time varies depending on the remaining battery capacity and the battery and charger type you use.
- Battery life inevitably shortens over time.
- Use an authorized battery and charger only.
- Since overcharging may shorten battery life, remove the phone from its charger once it is fully charged. Unplug the charger, once charging is complete. Leaving the battery in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.

To prevent injury or burns, ensure that no metal

objects come into contact with the + and – terminals of the battery.

■ ERROR MESSAGE

If you experience any problem while using your mobile phone, please refer to the following checklist. If the problem still persists, contact your dealer or nearest carrier.

When the "Content is too large" message appears:

The picture is too large to send instead the caller. It will send the default image instead of chosen image.

When the "Message full Please delete" message appears:

The received or saved messages are full in your phone memory. You need to delete the message.

When the "Password" message appears in Phone locked state:

Enter the phone password. The default password is "0000". If you cannot remember the password, contact the nearest carrier.

When the "No Service" or "Network Search" appears:

If you cannot make/receive a call when you are indoors or undergrounds where the signal strength is poor, move toward a window or go out to an open area. If you still cannot make a connection, contact the nearest carrier.

■ TROUBLESHOOTING CHECKLIST

When audio quality is poor:

End a call and try again.

When the other party cannot hear you speaking:

Your phone may be set to MUTE. Disable the MUTE function.

When battery lifetime is shorter than usual:

This may happen when you are in an area with low signal strength. Turn off your phone when it is not in use. Change the battery when battery energy is exhausted.

When your mobile phone does not turn on:

Make sure your battery is charged. Check to see if your phone works while recharging the battery.

When you are unable to send a message:

Either you are not registered to receive an SMS service, or you may be in an area where your network service provider cannot provide such a service.

When you are unable to make a call:

Your phone may be set to "fixed dial." Cancel the "fixed dial" function.

When you are unable to charge the battery:

This may be the result of one of the following three cases.

1. Your charger may be out of order. Contact your nearest dealer.

2. You may be attempting to use the phone in an overly hot/cold temperature. Try changing the charging environment.
3. Your battery may have not been connected to the charger properly. Check the connector.

When you are unable to input data into your Contacts:

Your Contacts memory may be full. Try deleting some entries from your Contacts.

When you are unable to select a certain function:

You may not have subscribed to that function, or your network service provider may be in an area where such service cannot be provided. Contact your local service provider.

■ 12 MONTH LIMITED WARRANTY

UTStarcom Personal Communications (the Company) warrants to the original retail purchaser of this UTStarcom 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 assign-able.

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.
- (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 non-operative 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 UTStarcom Personal Communications 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, UTStarcom Personal Communications 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 wire-less device, whether under warranty or not, returned to UTStarcom Personal Communications 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.

IN USA: UTStarcom Personal Communications
555 Wireless Blvd.
Hauppauge, NY 11788
(800) 229-1235

IN CANADA: UTStarcom Canada Company
5535 Eglinton Avenue West
Suite# 234 Toronto, ON M9C 5K5
(800) 465-9672

■ SAFETY INFORMATION FOR WIRELESS HANDHELD PHONE

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.

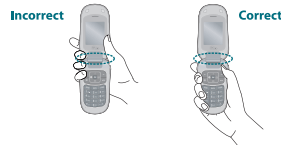
Antenna safety

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.

Hold your phone

Your phone is equipped with an antenna. For optimal call quality, hold the phone by the gripped edges on the side and avoid touching the top and bottom of the phone.



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.

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) AC/DC Travel Adaptor (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 UTStarcom 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.

WARNING:

- This product contains a chemical known to the State of California to cause cancer.
- This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

■ 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 2.2 cm. from the body with a beltclip that contains metallic components. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories with which this device was tested.

The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Note:

For more information about RF exposure, please visit the FCC website at www.fcc.gov.

■ 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 1.37 W/Kg and when worn on the body, as described in this user guide, is 0.422 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 22mm 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/oe/ea> after searching on PP4X1

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.

■ FCC HEARING-AID COMPATIBILITY (HAC) REGULATIONS FOR WIRELESS DEVICES

On July 10, 2003, the U.S. Federal Communications Commission (FCC) Report and Order in WT Docket 01-309 modified the exception of wireless phones under the Hearing Aid Compatibility Act of 1988 (HAC Act) to require digital wireless phones be compatible with hearing-aids. The intent of the HAC Act is to ensure reasonable access to telecommunications services for persons with hearing disabilities.

While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless phones, to assist hearing device users find phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better higher of the two ratings.



Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

The hearing aid and wireless phone rating values are then added together. A sum of 5 is considered acceptable for normal use. A sum of 6 is considered for best use.

In the above example, if a hearing aid meets the M2 level rating and the wireless phone meets the M3 level rating, the sum of the two values equal M5. This should provide the hearing aid user with

“normal usage” while using their hearing aid with the particular wireless phone. “Normal usage” in this context is defined as a signal quality that is acceptable for normal operation.

The M mark is intended to be synonymous with the U mark. The T mark is intended to be synonymous with the UT mark. The M and T marks are recommended by the Alliance for Telecommunications Industries Solutions (ATIS). The U and UT marks are referenced in Section 20.19 of the FCC Rules. The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

For information about hearing aids and digital wireless phone

- Fcc Hearing Aid Compatibility and Volume Control <http://www.fcc.gov/cgb/drol/hearing.html>
- Gallaudet University, RERC <http://tap.gallaudet.edu/voice>
- Self Help for Hard of Hearing People Inc. [SHHH] <http://www.hearingloss.org>
- The Hearing Aid Compatibility FCC Order http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-168A1.pdf

■ FDA CONSUMER UPDATE

 **U.S. Food and Drug Administration - Center for Devices and Radiological Health Consumer Update on Wireless Phones**

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 stand-by 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 handheld 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. 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.fcc.gov/oet/rfsafety>) 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 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/cellphones/>)
- 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 common-sense 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 rock 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
Phone: 800-AAA-2336, 703-790-8466
Fax: 703-790-8631
Email: info@audiology.org
Internet: 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

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

National Institute for Occupational Safety and Health

Hubert H. Humphrey Bldg.
200 Independence Ave., SW
Washington, DC 20201
Voice: 1-800-35-NIOSH (1-800-356-4674)
Internet: <http://www.cdc.gov/niosh/topics/noise/default.html>

■ CTIA USER INFORMATION REQUIREMENTS

- Do not disassemble or open crush, bend or deform, puncture or shred
- Do not 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.
- Only use the battery for the system for which it is specified
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic conductive objects to contact battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard, IEEE-Std-1725-2006. Use of an

unqualified battery may present a risk of fire, explosion, leak-age or other hazard.

- Promptly dispose of used batteries in accordance with local regulations
- Battery usage by children should be supervised.
- Avoid dropping 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 severe center for inspection.
- Improper battery use may result in a fire, explosion or other hazard.

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U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

NOTE : 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.
- *- 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.

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.