

WELCOME

Thank you for choosing the up-to-date PN-215, our new model, developed by top researchers to support the CDMA2000 1X system through Qualcomm-manufactured MSM6050 chips and CDMA technologies. This product allows for high speed communication services, such as web browsing, data services, and a GUI animation menu.

T9 input mode makes it much easier to enter text, while VR (Voice Recognition) makes the PN-215 more user friendly. Other proven technologies include:

- Full graphic display of 9 text input lines and 1 icon line with variable font size.
- Easy to dial through the VR feature.
- Easy to enter letters through the T9 text input mode.
- Enhanced for web browsing & data services (i.e.; wireless internet access, Openwave browser)
- GUI & Animation display compliant with CDMA2000 1X.
- Full graphic - Main LCD : TFT65K color LCD/
Sub LCD : Black/White
- Navigation Key and 21 keys aligned for more convenience.
- Sophisticated features of speaker phone, and voice recognition.
- Mobile Camera (330K pixels)
- Additional services of text messaging and Web browsing on top of authentication, call forwarding, call transfer, call waiting.

IMPORTANT INFORMATION

This PN-215 user guide contains very important information about how to handle and use the product.

Please read this manual thoroughly, pay attention to the warranty on the back page and be alert to the exclusions and limitations of your warranty, which are related with the unauthorized use of components.

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Chapter 1

BEFORE USING YOUR PHONE



This chapter provides important information about using the PN-215 including:

- INSIDE THE PACKAGE
- HANDSET DESCRIPTION
- BATTERY USAGE
- BATTERY HANDLING INFORMATION

"Licensed by QUALCOMM Incorporated under one or more of the following Patents : U.S.Patent No. 4,901,307 U.S.Patent No. 5,056,109 U.S.Patent No. 5,099,204 U.S. Patent No. 5,101,501 U.S. Patent No. 5,103,459 U.S. Patent No. 5,107,225 U.S.Patent No. 5,109,390."

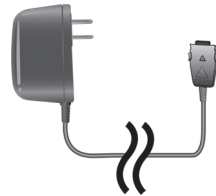
INSIDE THE PACKAGE

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



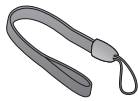
Handset



AC Travel Charger



User Manual



Handstrap



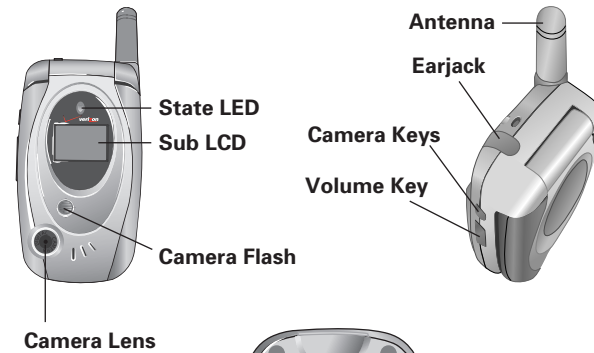
Standard Battery

6

HANDSET DESCRIPTION

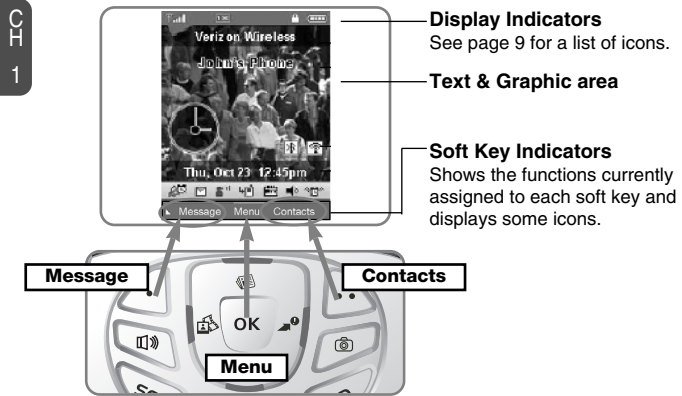
The PN-215 weighs 3.7oz. The dimensions are 1.83" x 4.48" x 0.97".

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HANDSET DESCRIPTION



Display Indicators

See page 9 for a list of icons.

Text & Graphic area

Soft Key Indicators

Shows the functions currently assigned to each soft key and displays some icons.

Get News & Info

In Idle Mode

- Press Up to access the Get News & Info, Down to access the Short Cut Key, Right for Get It Now and Left for Get Pix.

Inside the menu

- Within a menu, use to scroll through menu options, or to select a function displayed on the screen.

Get Pix



Get It Now

Short Cut Key



Press to make or receive a call.
Short press:Recent Calls. Long press:Voice Dial.



Press to turn the phone on/off, to terminate a call or to return to the initial page.



(Left Soft Key) Press to access the message menu or function displayed on bottom line.



(Right Soft Key) Press to access contacts menu or function displayed on bottom line.



Press to clear a digit from the display or to return to the previous page.



Speaker Phone On/Off in idle.



Short / long press : Go to Take Pix Viewfinder.



A long press shall display a plus "+".



Press and hold to enter lock mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS



Signal Strength - Current signal strength: the more lines, the stronger the signal (1X Mode/Digital Mode).



Roaming
Phone is out of home area.



Voice Privacy
Indicates "Voice Privacy" mode.



SSL



Dormant
Indicates your phone is in a dormant state during a data call. Your phone goes to Dormant mode when you have not had any activity on a page for some time - your connection is still active and you can make and receive calls.



No Service
Indicates the phone cannot receive a signal from the system.



Voice



Data Active



TTY
Indicates your phone is active in TTY mode.



GPS Icon
Indicates the Location Service of your phone is disabled/enabled.



Battery
Battery charging level – the more blocks, the stronger the charge.



Standalone

HANDSET DESCRIPTION

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1


Alarm Only

Phone will alert you with an alarm tone when call is received.



Alarm

Appears when either a calendar or an alarm is set.



Vibrate Only

Phone will vibrate when call is received.



All Sound Off

Indicates the ringer volume is set to off.



Missed Calls



Voicemails

indicates you have voicemail messages.



New Messages

New TXT or voice message.



Calendar Appointment

Indicates Event Alarm is active.



Data Only

Receives an async. call as a voice call.



Speakerphone

Phone is in speakerphone mode.



Auto Answer

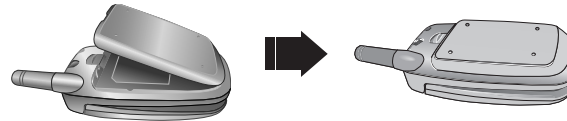
Phone is in answering machine mode.

BATTERY USAGE

BATTERY INSTALLATION



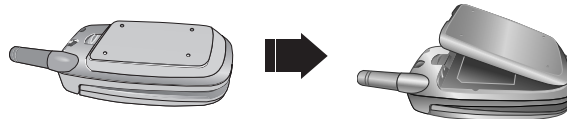
1 Place the battery on the back of the handset and slide into place. 2 Push the battery down until it locks into place.



BATTERY REMOVAL



1 Pull down the release latch, lift up the battery and 2 remove the battery from the handset.



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

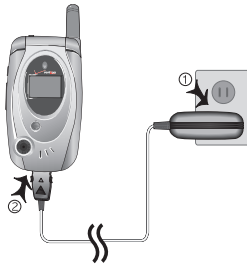
BATTERY USAGE

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1

BATTERY CHARGING

POWER CONNECTION

- 1 Plug the AC Charger into a standard outlet.
- 2 Plug the other end of the AC Charger into the bottom of your phone. The battery must be installed onto the phone.



- When you charge the battery with the phone power off, you will see a charging status screen. You cannot operate the phone until it is powered on.
- The battery is not charged at the time of purchase.
- Fully charge the battery before use.
- It is more efficient to charge the battery with the handset powered off.
- The battery must be connected to the phone in order to charge it.
- Battery operating time gradually decreases over time.
- If the battery fails to perform normally, you may need to replace the battery.

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BATTERY USAGE

PCS AND 1X BATTERY TIMES

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1000 mAh	Up to 215 m	Up to 210 m
EXT 1700 mAh	Up to 355 m	Up to 350 m

BATTERY LIFE (FOR NEW BATTERY)

The operating time is subject to your handset usage and configuration.

Battery Capacity	DCS	PCS
STD 1000 mAh	220 Hours	190 Hours
EXT 1700 mAh	400 Hours	350 Hours



These times are for a new battery. Usage and Standby time may decrease over time.

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BATTERY HANDLING INFORMATION

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1

DOs

- Only use the battery and charger approved by the manufacturer.
- Only use the battery for its original purpose.
- Try to keep batteries in a temperature between 41°F (5°C) and 95°F (35°C).
- If the battery is stored in temperatures above or below the recommended range, give it time to warm up or cool down before using.
- Completely drain the battery before recharging. It may take one to four days to completely drain.
- Store the discharged battery in a cool, dark, and dry place.
- Purchase a new battery when its operating time gradually decreases after fully charging.
- Properly dispose of the battery according to local laws.

DON'Ts

- Don't attempt to disassemble the battery – it is a sealed unit with no serviceable parts.
- Don't accidentally short circuit the battery by carrying it in your pocket or purse with other metallic objects such as coins, clips and pens. This may critically damage the battery.
- Don't leave the battery in hot or cold temps. Otherwise, it could significantly reduce the capacity and lifetime of the battery.
- Don't dispose of the battery into a fire.

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Chapter 2 BASIC OPERATION

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2


This chapter addresses and explains the basic features of your phone including:

- TURNING THE PHONE ON / OFF
- ACCESSING THE MENU
- MENU SUMMARY
- BASIC FUNCTIONS
- DURING A CALL
- MAKING AN EMERGENCY CALL

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TURNING THE PHONE ON / OFF


TURNING THE PHONE ON

- 1 Press and hold  until your "Power On" logo appears and the tone sounds.



- If "Password" appears on the display enter your 4-digit password to unlock your phone.
- The default password is the last 4 digit of your phone number.

TURNING THE PHONE OFF

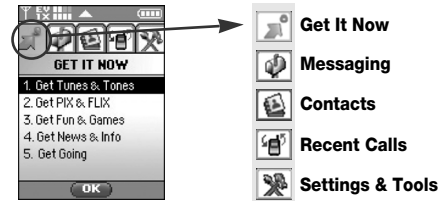
- 1 Press and hold  until your "Power Off" logo appears.






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

ACCESSING THE MENU

Your phone can be customized via the menu. Each function can be accessed by scrolling with the Navigation Key or by pressing the number that corresponds with the menu item.



- 1 To access the menu in the idle mode, press  [MENU].
- 2 Use the Navigation Key to scroll through the menu.
 - To search through the menu in numerical order, press the Navigation Key.
- 3 To return to the previous page, press  . To exit the current menu and return to the idle mode, press  .
- 4 Press the Navigation Key to enter a function when its main page is displayed or press its assigned number to have direct access to the function.



Hotkey

In idle mode, move the Navigation Key as follows to access these functions:

- Upward movement : Web Browser
- Downward movement : Shortcut Key
- Rightward movement : Get It Now
- Leftward movement : Get Pix

MENU SUMMARY

Get It Now	<ul style="list-style-type: none"> 1. Get Tunes & Tones 2. Get PIX 3. Get Fun & Games 4. Get News & Info 5. Get Going 	<ul style="list-style-type: none"> 1. Get New PIX 2. My PIX 3. PIX Place 4. Take PIX 	
Messaging	<ul style="list-style-type: none"> 1. New Msg 2. Inbox 3. Sent 4. Drafts 5. Voicemail 6. E-mail 7. Mobile IM 8. Chat 	<ul style="list-style-type: none"> 1. New Txt Msg 2. New Pix Msg 	
Contacts	<ul style="list-style-type: none"> 1. New Contact 2. Contact List 3. Groups 4. Speed Dials 		
Recent Calls	<ul style="list-style-type: none"> 1. Missed 2. Received 3. Dialed 4. All 5. View Timers 		
Settings & Tools	<ul style="list-style-type: none"> 1. My Account 2. Tools 3. Sounds 	<ul style="list-style-type: none"> 1. Calendar 2. Alarm Clock 3. World Clock 4. Notepad 5. Calculator 6. Shortcut Key 7. Stop Watch 1. Master Volume 2. Call Sounds 3. Alert Sounds 4. Keypad Volume 5. Earpiece Volume 6. Service Alerts 	<ul style="list-style-type: none"> 1. Alarm 1 2. Alarm 2 3. Alarm 3 1. Call Ringtone 2. Call Vibrate 1. TXT Message 2. PIX Message 3. Voicemail Msg 1. ERI 2. Minute Beep 3. Call Connect

MENU SUMMARY

	<ul style="list-style-type: none"> 4. Display 5. System 6. Call Settings 7. Clock Format 8. Ringer ID 9. Picture ID 	<ul style="list-style-type: none"> 1. Banner 2. Backlight 3. Contrast 4. Wallpaper 5. Screensaver 6. Display Themes 7. Fonts <ul style="list-style-type: none"> 1. Standalone Mode 2. System Select 3. NAM Selection 4. Device Info 5. Location 6. Security 7. Language <ul style="list-style-type: none"> 1. Answer Options 2. Auto Retry 3. TTY Mode 4. One Touch Dial 5. Voice Privacy 6. Data Setting 7. Voice Services 8. DTMF Tones <ul style="list-style-type: none"> 1. Main Clock 2. Front Clock 	<ul style="list-style-type: none"> 1. Personal 2. ERI Banner <ul style="list-style-type: none"> 1. Display 2. Keypad 1. Main LCD 2. Sub LCD 1. Auto NAM 2. Change NAM <ul style="list-style-type: none"> 1. My Number 2. SW Version 3. Icon Glossary 1. Common Code 2. Lock Mode 3. Edit Code 1. Voice Dial 2. Voice Setting 3. Voice Memo 4. Train Word
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BASIC FUNCTIONS

MAKING A CALL

1 Enter a phone number.



To modify the phone number you have entered :

- To erase one digit at a time press .
- To erase the entire number, press and hold .

To send the txt or pix message with phone number :

- To enter a part of the phone number, then press [Options], select "Send TXT Msg or Send PIX Msg". Please refer to page 95 or page 96 for more details on "Send TXT Msg or Send PIX Msg".

2 Press .

The indicator, , appears on the display.



- If "CALL FAILED" appears on the display or the line is busy, press or .
- If you activate the "AUTO RETRY" function, the phone will automatically retry for the number of times you have selected. (refer to page 66).
- When you place or receive a call from stored phone numbers, saved the name will be displayed.
- There is another way to make a call through the VR mode, which is called "VAD (Voice Activated Dialing)". Please refer to page 68 (Voice Service) for more details.
- If "Enter Lock Code" appears on the display enter your 4-digit password to unlock your phone.

3 To end a call, press .

BASIC FUNCTIONS

ANSWERING CALLS

1 When your phone rings or vibrates, press to answer the incoming call.
(Depending on your phone's settings, you may also answer incoming calls by opening the phone or by pressing any digit key.)



To ignore incoming calls, press [Ignore].

2 To end a call, press .

SPEAKER PHONE

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


1 To activate the speaker phone in idle, answering or calling modes, press .



2 The phone returns to normal (Speaker Phone Off) after ending a call or when the phone is turned off and back on.

BASIC FUNCTIONS









WAIT/PAUSE FEATURE





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


1 To insert a wait/pause, enter a phone number then press  [OPTIONS]. Select either a 2-Sec Pause ("P" appears) or a Wait ("W" appears).

2 Press  to dial or  to save.
Please refer to page 30 for more details about storing a phone number.

ANSWERING A CALL

1 To answer a call, press any key except , , , , , ,  or .

- By pressing  [MENU] then select "Settings & Tools" menu, press  , you can select either "Flip Open", "Any Key" or "Send Only" to answer a call. If "Send Only" is selected, the phone can only be answered by pressing .
See page 65 for more information.

2 To end the call, press .






In Auto Answer Mode a call is automatically answered after 5 seconds of ring tones. See page 65 for more details.

BASIC FUNCTIONS

3-WAY CALLING

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

- 1** Enter a number you wish to call then press .
- 2** Once you have established the connection, enter the second number you wish to call then press .
- 3** When you're connected to the second party, press  again to begin your 3-Way call.



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

CALLER ID FUNCTION

Identifies caller by displaying their phone number. If the caller's name and number are already stored in your phone book, they name will appear. The caller ID is stored in the recent calls.

BASIC FUNCTIONS

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.

- 1 To answer another call while on the phone, press . This places the first call on hold. To switch back to the first caller, press again.



Call Waiting is a system dependent feature. Please contact your service provider for details.

ADJUSTING VOLUME

Adjusts the volume of the ringer, key beep and speaker.

- 1 Press [MENU], then select "Settings & Tools" menu, press then select one of the following.

- **Master Volume** : Controls the ringer volume.
- **Keypad Volume** : Controls the keypad volume.
- **Earpiece Volume** : Controls the earpiece volume.

- 2 Adjust volume then press [OK] to save it.



- *To adjust earpiece volume during a call, press the Navigation Key up or down.*
- *To adjust master volume, press short side up/ down key.*
- **In Idle Mode:**
Side Volume Up key Long Press: Set volume to out of silence.
Side Volume Down key Long Press: Set volume to silence.

BASIC FUNCTIONS

ENTER LOCK MODE

- 1 To lock the phone, press and hold .

- 2 To unlock the phone, press or [UNLOCK], then input your password, then press [OK].

- The lock feature will deactivate when the phone is powered off. Upon next power up, you will need to press to lock phone again.

DURING A CALL

To display menu options during a call, press [Options].

MUTE (UNMUTE)

The caller cannot hear you or any sounds from your side but you can still hear them.

1 Press [Mute].

- To deactivate, press [UNMUTE].
- The phone will automatically un-mute in Emergency Call or Callback mode.

SEND TXT MSG

Enables you to send a TXT message (SMS) during a call.

1 Press [OPTIONS] .

CONTACTS

To select the phone number in your internal Contact List.

1 Press [OPTIONS] .

RECENT CALLS

To select the phone number in your recent calls List.

1 Press [OPTIONS] .

VOICE PRIVACY

Increases security during a call.

1 Press [OPTIONS] .

DURING A CALL

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS). (Refer to page 62 for more details.)


1 Press [OPTIONS] .

MAKING AN EMERGENCY CALL


The 911 feature puts the phone in the Emergency Call Mode when you dial the preprogrammed emergency number, 911. It also operates in the lock mode and out of the service area.

911 IN LOCK MODE

The 911 call service is available even in the lock mode.

- 1 Enter "911" then press .
- 2 The call connects.
- 3 The phone exits the Emergency Mode for 5 minutes.
 - When the call ends, the phone returns to the Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911" then press .
- 2 The call connects.
- 3 The phone maintains the Emergency Mode for 5 minutes.
 - The phone returns to the Lock Mode.
 - While the phone is in the emergency mode for 5 minutes, the phone can receive an incoming call from any available system. However, it can't make a call.



The 911 call is not recorded in the recent call list.

Chapter 3 MEMORY FUNCTION

This chapter addresses memory functions including:

- STORING A PHONE NUMBER
- ENTERING LETTERS, NUMBERS & SYMBOLS
- MAKING A CALL THROUGH THE PHONE BOOK

STORING A PHONE NUMBER

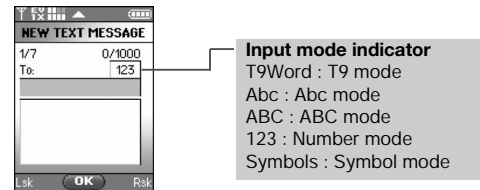
The phone book stores up to 500 entries.

- 1 Enter phone # then press [SAVE] then choose "Create New" or "Update Existing". Press [OK] to select.
- 2 If "Create New" is selected, the phone number will appear above a list. Press the Navigation Key up or down to choose the type of number you're adding, as indicated by the icon. Press [OK] to select. If "Update Existing" is selected, your contact list is displayed. Choose the entry to add the phone number to, then press [OK]. You will then see the phone number listed about a list. Press [OK] to select.
- 3 Enter a name.
Please refer to page 31 for more details on entering letters, numbers & symbols.
To change the input mode, press [ABC].
Press the Navigation Key down to select other options (Mobile1.2, E-mail1.2, etc...),
If entered phone number, press [OPTIONS] to select one of the following options:
 - Set Speed Dial
 - Set Voice Dial
 - Set As Default
 - Add Pause
- 4 To store the entry, press [SAVE]. "SAVED" will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS

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), T9 input mode (T9Word), Numeric mode (123), and Symbol mode (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 [ABC], then enter letters and numbers.



The following illustrates the function assigned to each key in the Alpha Editor.

KEY	FUNCTION
Abc	Press to change mode. [T9Word][Abc][ABC][123][Symbols]
Next	Press to view the next matching word if the highlighted word is not the word you intended.
Space	Press to accept a word and add a space.
Caps Lock	Press to select a letter case of the standard text input or T9 text input mode. [Abc], [ABC] and [abc] indicate the standard text input. [T9Word], [T9WORD] and [T9word] indicate the predictive text input. Press and hold to change mode.
Clear	Press to delete a character to the left of the cursor.
Send	Send the letters and numbers you enter.


ENTERING LETTERS, NUMBERS & SYMBOLS


STANDARD INPUT MODE


Use the digit keys to enter letters and characters.

1 Enter letters using the key pad as follows:



Key Pad	1 Time	Repetitions 2 times	Repetitions 3 times	Repetitions 4 times	Repetitions 5 times
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9


Press and hold , until the desired symbol appears (.@?!-...).

To change the input mode, press  [Abc].

2 To enter a space, press . The cursor will automatically move to the next column.

3 Repeat until letters are entered.
There is a 16-letter limit.

4 To delete one digit, press .
If you press and hold , it will delete letters word by word, and numbers in whole.

5 To change from lowercase to uppercase, press .



Select Abc mode by pressing [Abc].

When you select this mode, the Abc icon appears as a visual confirmation.

- Find the key that corresponds to the letter you want to enter.
- Press it as many times as needed for the letter to appear on the screen.

- To enter the name "John":

Press |  | J

Press |  |  |  | o


Press |  |  | h

Press |  |  | n


ENTERING LETTERS, NUMBERS & SYMBOLS


T9 INPUT MODE

The T9 input mode incorporates a built-in-dictionary to determine a word based on the entered characters. A word can be entered more quickly by pressing a key once per character.

1 Select the T9Word mode by pressing  [Abc].



2 Press a digit key once to enter the character you want then enter all the characters to input the word you want.

3 To view the next matching word, press .

4 To accept the matching word then enter a space, press .









To enter a compound word:






- Enter the first part of the word then press  to accept it.
- Enter the last part of the word then press  to enter the word.



To enter "Fun fare" in the T9 input mode.

- After you enter the 1st letter, press  [Abc] to select T9 mode and  to choose the lower case (T9Word).


- Press    and you will see "Fun" highlighted.
Press  to select it.

- Press     and until you see "ease" highlighted.
Press  to select the next matching word, you will see "fare" then enter a space.

ENTERING LETTERS, NUMBERS & SYMBOLS


NUMERIC MODE

Allows you to enter numbers.

- 1 Press  [Abc] and scroll to the input mode to changes to "123 (Numeric mode)".
- 2 To enter a number, press a digit key.

SYMBOL MODE


Allows you to enter symbols.

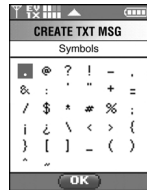
- 1 Press  [Abc] and scroll to the input mode to changes to "Symbols (Symbol mode)".
- 2 Select symbol you want to enter with the Navigation Key.

- Use the Navigation Key to view a different line of symbols.

Press [  ],

or

Press [].



MAKING A CALL THROUGH THE PHONE BOOK

ONE-TOUCH/TWO-TOUCH DIALING

Ideal for frequently dialed numbers, this feature allows phone book entries to be dialed via the keypad with only one or two key presses.

ONE-TOUCH DIALING:

1-9 : Press and hold the corresponding memory number for more than 1 second.

TWO-TOUCH DIALING:

10-22/97-99 : Press the first digit and second digits of the memory number short and long respectively.



- If no phone number is stored in the location entered, "UNASSIGNED LOCATION" will appear on the screen.

MEMO

Chapter 4

MENU FUNCTION

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

- CONTACTS
- RECENT CALLS
- SETTINGS
- TOOLS
- MY ACCOUNT

CONTACTS

Stores up to 500 entries, each of which can be assigned to a group. Entries can be retrieved by name or group.

NEW CONTACT

Adds a new entry.

- 1 Press **[OK]** [MENU], then press **[1]** "New Contact".
- 2 To enter a name or number, use the Navigation Key to select the phone book field.

PHONE BOOK FIELDS :

- Name/Mobile1/Home/Work/E-mail1/Group/Picture/Ringtone/Mobile2/Fax/E-mail2.
- Under "Mobile 1", "Mobile 2", "Home", "Work" or "Fax", input the phone number, then by press **[△]** [OPTIONS], you can choose from the following:
 1. Set Speed Dial
 2. Set Voice Dial
 3. Set As Default
 4. Add Pause
- Under "Picture", to select image, then by press **[△]** [SET]. (Please refer to page 88 "My PIX" for more details.)
- Under "Ringtone", to select tone, then by press **[△]** [SET]. (Please refer to page 85 "My Ringtones" for more details.)

Please refer to page 31 for more details on entering letters, numbers & symbols.

- 3.1 To save the entry, press **[OK]** [SAVE].
- 3.2 To return to the previous page, press **[OUT]**.



- If user not input at least one field among number, e-mail then display "NO DATA ENTERED" in dialogue box.
- If name field is empty in edit contact but one of phone number field inserted then saved so display default number in contacts list.

CONTACTS

CONTACT LIST

Retrieves an entry by name and calls by simply pressing **[CALL]**. You can review all the entries stored in your phone book list or quickly find an entry by entering a name or its character string.

- 1 Press **[OK]** [MENU], then press **[2]** "Contact List" or press **[CONTACTS]**.
- 2 The list of names in your phone book is displayed alphabetically.
- 3 Enter a name or its character string or scroll through the list with the Navigation Key. Please refer to page 31 for more details on entering letters, numbers & symbols.
- 4 To edit the entry, press **[△]** [EDIT]. To show detail the entry, press **[OK]** [VIEW]. Press **[△]** [OPTIONS] to 1. New Contact, 2. Erase, 3. Send TXT Msg, 4. Send PIX Msg or 5. Call.
- 5 To call the selected number, press **[△]** [OPTIONS] then select "Call" or press **[CALL]**.

CONTACTS

GROUPS

Allows you to classify phone entries into groups. Existing groups include Family, Work. A maximum of 30 groups is allowed. Predefined group that can't rename or Erase. User can add group max 28 group. Allows the user to add group up to 10 phone number. The user can add, change, and erase Group.

ADD NEW GROUP

- 1 Press [MENU], then press "Groups".
- 2 To select "New", press [NEW].
- 3 Input a new group name.
- 4 To save it, press [SAVE].

ASSIGN PHONE NUMBER TO GROUP

- 1 To assign phone numbers to a Group, select "Add", press [OPTION].
- 2 "unassigned" locations appear. Select a location and press [OK]. Your phone book entries will be displayed in alphabetical order.
- 3 Select the contact for the group then press [DONE]. "CONTACTS ADDED TO GROUP" will be displayed. Repeat for each location for the Group.

CONTACTS

CHANGE GROUP NAME

- 1 Press [MENU], then press "Groups".
- 2 Select an existing group name that you have added with the Navigation Key.
- 3 To select "Rename", press [OPTIONS].
- 4 Input a new group name.
- 5 To save it, press [SAVE].

SEND TXT MSG. GROUP

- 1 Press [MENU], then press "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Send TXT Msg.", press [OPTIONS].
- 4 Input a "Message", press [OPTION] to select "Save as Drafts" and "Priority Level".
- 5 5.1. To send the txt message, press [SEND].
5.2. To save the txt message, press [OPTIONS] then select "Save as Drafts", then press [OK].

CONTACTS

SEND PIX MSG. GROUP

- 1 Press [MENU], then press "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Send PIX Msg", press [OPTIONS].
- 4 Input a "Text", "Picture", "Sound", "Subject", press [OPTION] to select "Preview", "Add Quick Text", "Save as Drafts", "Priority Level" and "Add Slide".
- 5 5.1. To send the pix message, press [SEND].
5.2. To save the pix message, press [OPTIONS] then select "Save as Drafts", then press [OK].

ERASE GROUP

- 1 Press [MENU], then press "Groups".
- 2 Select an existing group name with the Navigation Key.
- 3 To select "Erase", press [OPTIONS].
- 4 Select "Yes" to erase it, press [OK].

CONTACTS

SPEED DIALS


In idle mode, calls can be placed to numbers stored in speed dial by pressing & holding the location number on the key pad. For a 2-digit location number, press the first number, then press and hold the second number.




- 1 Press [MENU], then press "Speed Dials".
 - 2 To assign a phone number to a location, select the location then press [SET].
 - 3 Select the contact with the Navigation Key then press [OK].
- NOTE**

 - "Unassigned" appears if the location is available.
 - To call an assigned number, press & hold the last digit of the speed dial #.
- 4 To select "Yes", press [OK].
 - 5 "SPEED DIAL SET" will be displayed.

RECENT CALLS


MISSED

Displays information about the 90 most recently missed calls.
Place a call to a missed call number by simply pressing .

- 1 To see a list of the 90 most recently missed calls, press  [MENU], then select "Recent Calls" menu, press  "Missed". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
- 2 To view missed call details, press  [OPEN].




Call details include date, time and phone number.

- 3 Press  [OPTIONS] and select "SAVE" to save it or select "Erase" to delete it.


- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a missed calls list.
- **Lock/Unlock** : To lock or unlock missed calls list.
- **Erase All** : To erase all missed calls list.
- **View Timers** : To display usage time.






- After 90 missed calls, the oldest call will automatically be erased from the history.
- Press  [MESSAGE], to send the TXT or PIX message.

RECENT CALLS


RECEIVED

Displays information about the 90 most recently answered calls.
Place a call to a received call by simply pressing .

- 1 To see a list of the 90 most recently answered calls, press  [MENU], then select "Recent Calls" menu, press  "Received". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.
- 2 To view incoming call details, press  [OPEN].




Call details include date, time and phone number.

- 3 Press  [OPTIONS] and select "SAVE" to save it or select "Erase" to delete it.


- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a received calls list.
- **Lock/Unlock** : To lock or unlock received calls list.
- **Erase All** : To erase all received calls list.
- **View Timers** : To display usage time.






- After 90 received calls, the oldest call will automatically be erased from the history.
- Press  [MESSAGE], to send the TXT or PIX message.

RECENT CALLS

DIALED


Displays information about the 90 most recently dialed numbers. Place a call to a dialed call by simply pressing .

- 1 To see a list of the 90 most recently dialed numbers, press  [MENU], then select "Recent Calls" menu, press  "Dialed". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view dialed call details, press  [OPEN].




Call details include type of call, date, time and phone number.

- 3 Press  [OPTIONS] and select "SAVE" to save it or select "Erase" to delete it.

- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a dialed calls list.
- **Lock/Unlock** : To lock or unlock dialed calls list.
- **Erase All** : To erase all dialed calls list.
- **View Timers** : To display usage time.






- After 90 dialed calls, the oldest call will automatically be erased from the history.
- Press  [MESSAGE], to send the TXT or PIX message.

RECENT CALLS

ALL


Displays information about the most recent incoming, outgoing and missed calls.

- 1 To see a list of the 270 most recent incoming, outgoing and missed calls, press  [MENU], then select "Recent Calls" menu, press  "All". If the number is already stored in your phone book, only the name appears. If the number is not stored, only the phone number appears.

- 2 To view details, press  [OPEN].




Call details include type of call, date, time and phone number.

- 3 Press  [OPTIONS] and select "SAVE" to save it or select "Erase" to delete it.

- **Save** : To store the phone number in your phone book.
- **Details** : To view the caller's information.
- **Erase** : To erase a recent calls list.
- **Lock/Unlock** : To lock or unlock recent calls list.
- **Erase All** : To erase all recent calls list.
- **View Timers** : To display usage time.



- After the 270 received, dialed or missed calls, the oldest call will automatically be erased from the history.
- Press  [MESSAGE], to send the TXT or PIX message.

RECENT CALLS

VIEW TIMERS

Checks the usage time and manages your calls within the limit you set. The 11 timers include (Last Call, All Calls, Received Calls, Dialed Calls, Roaming, Transmit Kilobytes, Received Kilobytes, Total Kilobytes, Last Reset, Lifetime Calls, Lifetime Data Counter):

- 1 Press [MENU], then select "Recent Calls" menu, press "View Timers".
- 2 To reset the timer, press [RESET], then select "Yes", press .
To reset all timer, press [RESET ALL], then select "Yes", press .
- 3 To return to the previous page, press [OK].

SETTINGS

Customizes your phone and optimizes performance through a variety of settings.

SOUNDS

MASTER VOLUME

Controls the Ringer volume and alerts you to incoming calls in the modes listed in the gray box below.

- 1 Press [MENU], then select "Settings & Tools" menu, press "Sounds" then select "Master Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.

- All Sounds Off
 - Alarm Only
 - Vibrate Only
 - Low, Med Low, Med, Med High, High.
 - Press to play sound.
- 3 Select one of the available ring types.
To confirm, press [OK].

SETTINGS

CALL SOUNDS

To select a ringer type for incoming calls:

CALL RINGTONE

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[3 sec]** "Sounds" then select **[2 sec]** "Call Sounds", press **[1 x]** "Call Ringtone".
- 2 Select your desired ringer type.
 - **Up or Down key** : Select "Ringer".
 - Press **[△]** Play/Pause to Play/Pause the ringer.
- 3 Select one of the available ring types. To confirm, press **[OK]** [OK].

CALL VIBRATE

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[3 sec]** "Sounds" then select **[2 sec]** "Call Sounds", press **[2 sec]** "Call Vibrate".
- 2 Select "On" or "Off" with the Navigation Key then press **[OK]** [OK] to save it.

SETTINGS

ALERT SOUNDS

When selected, this setting alerts you to the following handset changes:

TXT MESSAGE






- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[3 sec]** "Sounds" then select **[3 sec]** "Alert Sounds", press **[1 x]** "TXT Message".
- 2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.
 - **Tone** : Select your desired ringer type.
 - **Vibrate** : Select "On" or "Off".
 - **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".
- 3 To save, press **[OK]** [OK].

PIX MESSAGE

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[3 sec]** "Sounds" then select **[3 sec]** "Alert Sounds", press **[2 sec]** "PIX Message".
- 2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.
 - **Tone** : Select your desired ringer type.
 - **Vibrate** : Select "On" or "Off".
 - **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".
- 3 To save, press **[OK]** [OK].

SETTINGS





VOICEMAIL MSG

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds" then select  "Alert Sounds", press  "Voicemail Msg".
- 2 Select "Tone", "Vibrate" or "Reminder" with the Navigation Key then select one of the following options by pressing the Navigation Key.
 - **Tone** : Select your desired ringer type.
 - **Vibrate** : Select "On" or "Off".
 - **Reminder** : Select "Once", "Every 2 Minutes", "Every 15 Minutes" or "Off".
- 3 To save, press  [OK].

SETTINGS





KEYPAD VOLUME

To adjust key pad tone:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds" then select  "Keypad Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Off
 - Low, Med Low, Med, Med High, High
- 3 Select one of the available ring types.
To confirm, press  [OK].

EARPIECE VOLUME

To adjust earpiece volume:

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "Sounds" then select  "Earpiece Volume".
- 2 Select one of the following options by pressing the Navigation Key to the right.
 - Low, Med Low, Med, Med High, High
- 3 Select one of the available ring types.
To confirm, press  [OK].

SETTINGS

SERVICE ALERTS

ERI

- 1 Press [MENU], then select "Settings & Tools" menu, press "Sounds" then select "Service Alerts", press "ERI".
- 2 Select "On" or "Off" with the Navigation Key then press [OK] to save it.

MINUTE BEEP

Sounds an alert every minute during a call.

- 1 Press [MENU], then select "Settings & Tools" menu, press "Sounds" then select "Service Alerts", press "Minute Beep".
- 2 Select "On" or "Off" with the Navigation Key then press [OK] to save it.

CALL CONNECT

Notifies you that a call has been successfully placed.

- 1 Press [MENU], then select "Settings & Tools" menu, press "Sounds" then select "Service Alerts", press "Call Connect".
- 2 Select "On" or "Off" with the Navigation Key then press [OK] to save it.

SETTINGS

DISPLAY

Allows you to customize the display.

BANNER

To input a personal/ERI banner greeting:

PERSONAL

The text greeting can be up to 16 characters and is displayed on your phone's screen in standby mode.

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Banner", press "Personal".
- 2 Enter a new personal greeting.
To change the input mode, press [Abc].
- 3 Press [OK] to save it.

ERI BANNER

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Banner", press "ERI Banner".
- 2 Select "On" or "Off" with the Navigation Key then press [OK] to save it.

SETTINGS

BACKLIGHT

Backlights the display and key pad and activates dimming for easy viewing in dark places.

DISPLAY

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Backlight", press "Display".
- 2 Select one of the following options with the Navigation Key.
 - 5 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off
- 3 Press [OK] to save it.

KEYPAD

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Keypad".
- 2 Select one of the following options with the Navigation Key.
 - 5 Seconds, 15 Seconds, 30 Seconds, Always On, Always Off
- 3 Press [OK] to save it.

SETTINGS

CONTRAST

To adjust the display contrast:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Contrast".
- 2 Select "Main LCD" or "Sub LCD" then select one of the following options with the Navigation Key.
 - Leve 1 - Leve 5
- 3 Press [OK] to save it.

WALLPAPER

- 1 Press [MENU], then select "Settings & Tools" menu, press "Display" then select "Wallpaper".
- 2 Select Default to choose a pre-installed display, Downloads or Pix # to choose a display you have downloaded to your phone. To launch "BREW", press [GET NEW]. To expand selected image, press [VIEW].
- 3 Select a display from the Animation and the Graphic list using the Navigation Key and press [OK] to save it.

SETTINGS

SCREENSAVER

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[4]** "Display" then select **[5]** "Screensaver".
- 2 Select Default to choose a pre-installed display, Downloads or Pix # to choose a display you have downloaded to your phone.
To launch "BREW", press **[▶]** [GET NEW].
To expand selected image, press **[◀]** [VIEW].
- 3 Select a display from the Animation and the Graphic list using the Navigation Key and press **[OK]** [OK] to save it.

DISPLAY THEMES

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[4]** "Display" then select **[6]** "Display Themes".
- 2 Select one of the following options with the Navigation Key.
 - Original, Tropical, Business, Blue
- 3 Press **[OK]** [OK] to save it.

FONTS

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[4]** "Display" then select **[7]** "Fonts".
- 2 Select "Normal" or "Large" with the Navigation Key then press **[OK]** [OK] to save it.

SETTINGS

SYSTEM

STANDALONE MODE

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5]** "System" then select **[1]** "Standalone Mode".
- 2 Select "On" or "Off" with the Navigation Key then press **[OK]** [OK] to save it.

SYSTEM SELECT

Selects the Preferred System.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5]** "System" then select **[2]** "System Select".
- 2 Select one of the following options with the Navigation Key.
 - Automatic B
 - Automatic A
 - Home Only
- 3 Press **[OK]** [OK] to save it.

SETTINGS

NAM SELECTION

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

AUTO NAM

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

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5/11]** "System" then select **[3/30]** "NAM Selection", press **[1/1]** "Auto NAM".
- 2 Select "On" or "Off" with the Navigation Key then press **[OK]** [OK] to save it.

CHANGE NAM

Changes the NAM used by the phone when you have multiple registrations.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5/11]** "System" then select **[3/30]** "NAM Selection", press **[2/20]** "Change NAM".
- 2 Select one of the following options with the Navigation Key.
 - NAM 1 - VERIZON
 - NAM 2 - VERIZON
- 3 Press **[OK]** [OK] to save it.

SETTINGS

DEVICE INFO

Displays the information of your phone:

MY NUMBER

Displays the your phone number (MDN/MIN number and provider) :

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5/11]** "System" then select **[4/41]** "Device Info", press **[1/1]** "My Number".
- 2 You are to see the MDN/MIN number and provider name.
- 3 To return to the previous page, press **[OK]** [OK].

SW VERSION

Displays the (Software/PRL/ERI/Browser/Get It Now) version.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5/11]** "System" then select **[4/41]** "Device Info", press **[2/20]** "SW Version".
- 2 You are to see the version of software, hardware and others.
- 3 To return to the previous page, press **[OK]** [OK].

ICON GLOSSARY





Displays the Indicator Icons of your cellular telephone.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[5/11]** "System" then select **[4/41]** "Device Info", press **[3/30]** "Icon Glossary".
- 2 You are to see the Indicator Icons of your cellular telephone.
- 3 To return to the previous page, press **[OK]** [OK].

SETTINGS

LOCATION

To determine whether or not the network system can detect your position:





- 1 Press  [MENU], then select "Settings & Tools" menu, press  "System" then select  "Location".
- 2 Select one of the following options with the Navigation Key.
 - Location On
 - E911 Only
- 3 Press  [OK] to save it.

SETTINGS

SECURITY



Prevents unauthorized use of your phone. The following settings can be restricted:

COMMON CODE

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "System" then select  "Security", then enter your password, press  [OK].







The default password is the last 4 digit of your phone number.

- 2 Select  "Common Code".
- 3 Select "On" or "Off" with the Navigation Key then press  [OK] to save it.


LOCK MODE

Prevents the phone from being used without entering the password first.


- 1 Press  [MENU], then select "Settings & Tools" menu, press  "System" then select  "Security", then enter your password, press  [OK].



The default password is the last 4 digit of your phone number.

- 2 Select  "Lock Mode".
- 3 Select "Device" or "Location" then select one of the following options with the Navigation Key.

- **Device** : Lock, Unlock, On Power Up
- **Location** : Lock, Unlock

- 4 Press  [OK] to save it.

SETTINGS

EDIT CODE

Changes your Device/Location 4-digit password.

- 1 Press [MENU], then select "Settings & Tools" menu, press "System" then select "Security", then enter your password, press [OK].



The default password is the last 4 digit of your phone number.

- 2 Select "Edit Code".
- 3 Select "Device" or "Location" then select one of the following options with the Navigation Key.
- 4 Enter a "New Code" then press [OK].
- 5 Enter a "Confirm Code" then press [OK] to save it.

LANGUAGE

Selects the language in which letters are displayed on the screen.

- 1 Press [MENU], then select "Settings & Tools" menu, press "System" then select "Language".
- 2 Select "English" or "Spanish" with the Navigation Key.
- 3 Press [OK] to save it.

SETTINGS

CALL SETTINGS

ANSWER OPTIONS

To select an answer mode:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Call Settings" then select "Answer Options".
- 2 Select one of the following with the Navigation Key.
 - Flip Open
 - Any Key
 - Send Only
 - Auto Answer - Handsfree
 - Auto Answer - Headset
 - Auto Answer - Handset
- 3 To save, press [OK].

SETTINGS

AUTO RETRY

Automatically redials a call up to 5 times after a set time interval.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6 mms]** "Call Settings" then select **[2 abs]** "Auto Retry".
- 2 Retry time to field is shown. Press the Navigation Key left or right to choose the amount of time. (Off, 3 Seconds, 5 Seconds, 7 Seconds or 10 Seconds)
- 3 When a time is chosen for retry time, the repeat field is shown. Press the Navigation Key down to highlight the repeat field. Press the Navigation Key left or right to choose the number of repeats. (1 time, 3 times or 5 times).
- 4 To save, press **[OK]** [OK].

TTY MODE

Your phone is able to operate with a TTY (Teletypewriter) device in both analog and digital modes. This feature is system dependent and may not be available in all areas.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6 mms]** "Call Settings" then select **[3 mms]** "TTY Mode".
- 2 Select one of the following with the Navigation Key.
 - TTY Off/TTY+ TALK/TTY + HEAR/TTY Full
- 3 To save, press **[OK]** [OK].

SETTINGS

ONE TOUCH DIAL

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6 mms]** "Call Settings" then select **[4 pt]** "One Touch Dial".
- 2 Select "On" or "Off" with the Navigation Key then press **[OK]** [OK] to save it.

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6 mms]** "Call Settings" then select **[5 pt]** "Voice Privacy".
- 2 Select "Standard" or "Enhanced" with the Navigation Key, then press **[OK]** [OK] to save it.

- **Enhanced** : Makes it more difficult to wire tap.

DATA SETTING

Choose the connection mode for the usage of your phone.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6 mms]** "Call Settings" then select **[6 mms]** "Data Setting".
- 2 Select one of the following connection modes with the Navigation Key.
 - **Voice Call** : To receive a voice call.
 - **Data Only** : To receive data when connected to PC.
- 3 To save, press **[OK]** [OK].

SETTINGS

VOICE SERVICES

VOICE DIAL

Voice Dial allows you to call a person by simply saying their name.
To access Voice Dial:

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6]** "Call Settings" then select **[7]** "Voice Services", press **[1.2]** "Voice Dial".
- 2 2.1. Press **[.]** [NEW]. The phone book list will be displayed alphabetically. Select a name then press **[OK]** [OK]. Instructions (Please OK and say name) will be displayed and **[OK]** [OK]. You will hear "Name Please".
2.2. Say the name for the voice tag and repeat the name when prompted. You will hear "Added".
- 3 To play a voice dial.
Highlight the voice tag you want to play then press **[OK]** [PLAY].
- 4 To detail a voice dial.
Highlight the voice tag you want to detail view then press **[.]** [OPTIONS] then select "Detail".
- 5 To re-record a voice dial.
Highlight the voice tag you want to re-record then press **[.]** [OPTIONS] then select "Re-record".
- 6 To play speaker a voice dial.
Highlight the voice tag you want to play speaker then press **[.]** [OPTIONS] then select "Play Speaker".
- 7 To erase or erase all voice dial.
Highlight the voice tag you want to erase or erase all then press **[.]** [OPTIONS] then select "Erase" or "Erase All".

SETTINGS

VOICE SETTING

After turning on Set Active, open the flip to go on to VR mode. After turning on HFK mode, put Hands-free kit and say "wake up" to go on to VR mode.

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6]** "Call Settings" then select **[7]** "Voice Services", press **[2]** "Voice Setting".
- 2 Under "Set Active", select a option "Off", "Active Flip" or "Send Key".
- 3 Under "HFK Mode", select a option "On" or "Off".
- 4 To save, press **[OK]** [OK].

VOICE MEMO

Voice Memo allows you to record a reminder message that can be up to 60 seconds. To record a memo:

- 1 Press **[OK]** [MENU], then select "Settings & Tools" menu, press **[6]** "Call Settings" then select **[7]** "Voice Services", press **[3]** "Voice Memo".
- 2 To record a voice memo, select "Record New", press **[OK]** [OK].
- 3 To start recording a voice memo, press **[OK]** [OK].
- 4 To stop recording a voice memo, press **[OK]** [STOP]. To saved into voice memo list automatically. Voice memo order by date and recent file is uppermost.

SETTINGS

- 5** To play voice memo, select the message you want to play then press [PLAY].
To send voice memo, select the message you want to send then press [SEND] to access the "New Pix Msg" see "New Pix Msg" on page 96.
If saved voice memo, press [OPTIONS] to select one of the following options:

- Rename
- Erase
- Erase All

TRAIN WORD

Train allows you to use Control words to make a call without using the keypad. Use to train or untrain the Voice Recognition with the control word, "Yes", "No" or "Wake-Up".

- 1** Press [MENU], then select "Settings & Tools" menu, press "Call Settings" then select "Voice Services", press "Train Word".
- 2** Under "Yes", "No", "Wake-Up".
"Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word". Say word. You will hear "Again". Say word again. You will hear "Training word successful".
To undo voice recognition, select a word you want to undo then press [UNDO].
- 3** Under "Undo Train All".
"Undo voice recognition for all procedures?" will be displayed. Press [OK] to undo all trained words.

SETTINGS

DTMF TONES

To adjust tone length:

- 1** Press [MENU], then select "Settings & Tools" menu, press "Call Settings" then select "DTMF Tones".
- 2** Select one of the following with the Navigation Key.
- Normal
 - Long
- 3** To save, press [OK].

SETTINGS

CLOCK FORMAT

MAIN CLOCK

To change the main clock's appearance on the standby screen:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Clock Format" then select "Main Clock".
- 2 Select one of the following with the Navigation Key.

- Digital
- Analog
- Off

- 3 To save, press [OK].

FRONT CLOCK

To change the front clock's appearance on the standby screen:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Clock Format" then select "Front Clock".
- 2 Select one of the following with the Navigation Key.

- Digital
- Analog
- Off

- 3 To save, press [OK].

SETTINGS

RINGER ID

- 1 Press [MENU], then select "Settings & Tools" menu, press "Ringer ID".
- 2 Select "On" or "Off" with the Navigation Key, then press [OK] to save it. (Default setting is "Off")

PICTURE ID

- 1 Press [MENU], then select "Settings & Tools" menu, press "Picture ID".
- 2 Select "On" or "Off" with the Navigation Key, then press [OK] to save it. (Default setting is "Off")

TOOLS

CALENDAR

Sets an event and reminds you of that event.

ADD NEW

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Calendar".
- 2 Move the Navigation Key left, right, up or down to choose a date in the calendar then press [OK]. Press [OPTIONS] to 1. New, 2. Go To Date, 3. Erase Passed or 4. Erase All. Press [MONTHLY/WEEKLY] to exchange display mode.
- 3 The date field is highlighted. Press the Navigation Key down to set the alarm options.

APPOINTMENT

Use the keypad to entering a appointment of your schedule.

START TIME

Use the keypad to set a start time and to select "AM" or "PM".

END TIME

Use the keypad to set a end time and to select "AM" or "PM".

START DATE

Use the keypad to change or enter the start date.

RECURRENCE

Use the Navigation Key to select a setting for the repeat repeating the calendar. (Daily, Weekly, Monthly or Yearly).

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TOOLS

BY COUNT

Use the keypad to entering a count.

END DATE

Use the keypad to change or enter the end date.

TIME ZONES

Use the Navigation Key to select a time zone. (OFF, EST, EDT, CST, CDT, MST, MDT, PST, PDT, AKST, AKDT, HAST, HADT or GMT/UTC).

ALERT

Use the keypad to select the alert tone you wish to set.

VIBRATE

Use the Navigation Key to select vibrate on/off.

REMINDER

Use the Navigation Key to select an alert time interval option (0 Minutes, 5 Minutes, 10 Minutes, 15 Minutes).

- 4 Press [SAVE] to save it or [CLR] to return to the calendar.
- 5 The date of the event will be marked on your calendar.

VIEW PLAN LIST

- 1 To view the Calendar List.
- 2 Move the Navigation Key to choose an event then press [VIEW]. Press [ERASE], then select "Yes", press .

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TOOLS

ALARM CLOCK

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Alarm Clock".
- 2 Select one of the entries using the Navigation Key. To set a new alarm, choose alarm 1, 2 or 3. To edit an existing alarm, select that alarm. Press [OK].
- 3 The setting field will be highlighted. Press the Navigation Key down to select alarm options.

ALARM

Use the Navigation Key to select alarm on/off.

TIME

Use the keypad to set a time for the alarm and to select "AM" or "PM".

FREQUENCY

Use the Navigation Key to select a setting for the alarm (Once, Daily, Mon - Fri, Weekends).

RINGER

Use the keypad to select the alert tone you wish to set.

- 4 To save an alarm setting press [SAVE].

TOOLS

WORLD CLOCK

To display the time and date in pre-programmed cities:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "World Clock".
- 2 Select a city with the [CITIES]. Or use the Navigation Key to select another city.
- 3 The world map appears with the city, its date and time.
 - NOTE** • If user press [DST], then all DST supporting cities DST turn on/off.
- 4 To return to the previous page, press [OK].

TOOLS

NOTEPAD

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

ADD MEMO

To compose a memo (there is an 80-letter limit):

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Notepad".
- 2 To add a new memo, press [NEW].
Input a new text memo.
(Please refer to page 31 for more details on entering letters, numbers & symbols.)
- 3 To save memo, press [SAVE].

VIEW MEMO

To view a saved memo:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Notepad".
- 2 The list of all memos, in saved order, is displayed. Select a memo then press [VIEW].
- 3 The selected memo will appear.
To edit it, press [EDIT] and input a new text memo, then press [SAVE] to save it.
- 4
 - 4.1. To add a new memo, press [NEW].
 - 4.2. To erase a memos, press [OPTIONS] "Erase".
 - 4.3. To erase all memos, press [OPTIONS] "Erase All".

TOOLS

CALCULATOR

To access the calculator:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Calculator".
- 2 Follow the instructions below to calculate $8*6\div 4-2.5=9.5$

Input 8.
Move the Navigation Key rightward.
Input 6 then press the Navigation Key.
Move it leftward.
Input 4 then press the Navigation Key.
Move it downward.
Input 2 then press the to input (.).
Press 5.
Then press and you will see the answer.



- 3 To reset, press [CLEAR].

- To change the displayed number from positive (+) to negative (-) and vice versa, press [\pm].
- If user press [OPERATOR], to use multi parenthesis support and parenthesis rules [(,)] or power [^].

TOOLS

SHORTCUT KEY

Your phone offers you the option of assigning a shortcut key (Down Navigation Key) to a favorite or often-used function. To assign a shortcut to the key:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Shortcut Key".
- 2 Select your desired menu option then press [OK].

Calendar/Tunes & Tones/My PIX/Fun & Games/News & Info/
 Inbox/Sent/Email/Chat/IM/Settings & Tools/Alarm Clock/
 Calculator
- 3 The Shortcut can now be accessed by pressing the "Down Navigation Key".

TOOLS



STOP WATCH

Simultaneously times up to six different events. To operate the stop watch:

- 1 Press [MENU], then select "Settings & Tools" menu, press "Tools" then select "Stop Watch".
- 2 To measure a time period.
 1. To start the stop watch, press [START].
 2. To pause it, press [STOP].
 3. To resume it, press [START].
To reset it, press [RESET].
- 3 To time up to six events at once:
 1. To start, press [START].
 2. To stop a time period and continue measuring another one, press [CONT].
 3. To stop the second and continue measuring a third one, press [CONT].
 4. To measure up to six time periods, repeat the above steps.
 5. To stop the stop watch, press [STOP].
 6. To review the results, press [VIEW].
 7. To return to the stop watch, press [OK].
 8. To reset it, press [RESET].

MY ACCOUNT

MY ACCOUNT

- 1 Press  [MENU], then select "Settings & Tools" menu, press  "My Account".
- 2 Connect "WAP Browser".

Chapter 5

GET IT NOW

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

■ GET IT NOW

GET IT NOW

GET TUNES & TONES

GET NEW RINGTONES

- 1 Press **OK** [MENU], then select "Get It now" menu or press **RIGHT**, then press **1** "Get Tunes & Tones" then select **1** "Get New Ringtones" then select "Get New", press **1**. (The BREW will launch and take you to the download menu.)
- 2 Use your navigation key to select a provider's browser, press **OK** [OK].
- 3 Use your navigation key to select a "Ringtones" you wish to download, press **OK** [OK].

RECORDING NEW TONES

- 1 Press **OK** [MENU], then select "Get It now" menu or press **RIGHT**, then press **1** "Get Tunes & Tones", select **3** "My Sounds" then select "Record New".
- 2 To record a voice memo, press **OK** [OK] Instructions will be displayed and you will hear "Beep Sound".
- 3 To stop recording a memo, press **OK** [STOP].

GET IT NOW

MY RINGTONES

- 1 Press **OK** [MENU], then select "Get It now" menu or press **RIGHT**, then press **1** "Get Tunes & Tones" then press **2** "My Ringtones".
- 2 To play downloaded ringtones. Select the tunes or tones you want to play, then press **OK** [PLAY].
- 3 To assign downloaded ringtones. Select the Ringtone you want to assign, then press **△** [SET AS]. Select "Call Ringtone", "Contact" or "Alert Tone", then select "Yes", press **OK**.

By pressing **△** [SET AS], you can choose from the following:

1. Call Ringtone
2. Contact
3. Alert Tone - 1. All Messages
2. TXT Message
3. PIX Message
4. Voicemail Msg

- 4 To erase downloaded ringtones. Select the Ringtone you want to erase, then press **△** [OPTIONS]. Select "Erase", "Rename" or "Ringtone Info", then select "Yes", press **OK**.





By pressing **△** [OPTIONS], you can choose from the following:

1. Erase
2. Rename
3. Ringtone Info



GET IT NOW

MY SOUNDS








- 1 Press  [MENU], then select "Get It now" menu or press  →, then press  "Get Tunes & Tones" then press  "My Sounds".



GET IT NOW

GET PIX

DOWNLOADING NEW PIX

- 1 Press  [MENU], then select "Get It now" menu, then press  "Get PIX" or press  ←  or press and hold side camera key, then select  "Get New PIX", then select "Get New". (The BREW will launch and take you to the download menu.)
- 2 Use your navigation key to select a provider's browser, press  [OK].
- 3 Use your navigation key to select a "Pix or Flix" you wish to download, press  [OK].



CH
5



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5

GET IT NOW

MY PIX

In Review Mode you can view all the pictures you have taken, store selected images in your phone, send pictures to the Online Album, delete images and access additional picture options.

- 1 Press **[OK]** [MENU], then select "Get It now" menu, then press **[2 abc]** "Get PIX" or press **[◀]** or press and hold side camera key, then select **[2 abc]** "My PIX".
- 2 In Review Mode, you can view all the pictures you have stored in your phone.
- 3 Select picture with the Navigation Key, then press **[OK]** [VIEW]. You can see detail picture.

- In detail view, user can view previous or next picture by pressing left or right navigation key.
- By pressing **[△]** [OPTIONS], you can choose from the following:
 1. **Send:** To send a picture message.
 2. **To PIX Place:** To uploading selected picture to pix server.
 3. **Get New:** To download a "New Pix" through the "Get It Now".
 4. **Set As:** Assigns the selected pix to display for specific tasks. (Wallpaper/Screensaver/Picture ID).
 5. **Rename:** To edit the picture's title.
 6. **Lock/Unlock:** To select "Lock" or "Unlock".
 7. **Erase:** Erase the current picture from your phone.
 8. **Erase All:** To erase all the pictures in your phone.
 9. **PIX Info:** Displays information on the selected picture, such as name, date, time, resolution and file size. ("Send", "To PIX Place", "Set As", "Rename", "Lock/Unlock", "Erase" functions applies only to downloaded contents.)
- Press **[◀]** [CAMERA] to return to Camera mode to take another picture.

PIX PLACE

- 1 Press **[OK]** [MENU], then select "Get It now" menu, then press **[2 abc]** "Get PIX" or press **[◀]** or press and hold side camera key, then select **[3 abc]** "Pix Place".
- 2 Connect "WAP Browser".

GET IT NOW


TAKE PIX


- 1 Press **[OK]** [MENU], then select "Get It now" menu, then press **[2 abc]** "Get PIX" or press **[◀]** or press and hold side camera key, then select **[4 abc]** "Take PIX". Or press **[0]** or **[1]**.
- 2 Point the camera lens at your subject. You can check the picture framing through the main display screen.
- 3 Press side camera key or press and hold **[◀]** to take the picture.


- Press **[△]** [My PIX], you can view the captured pictures.
- By pressing **[△]** [OPTIONS], you can choose from the following:
 1. **Resolution:** To select a resolution for a picture. (480x640/240x320/120x160)
 2. **Self Timer:** To activate the camera's timer function. (Off/3 Seconds/5 Seconds/10 Seconds)
 3. **Flash:** To activate the flash function. (Off/On/Auto Flash/Only This Shot)
 4. **White Balance:** To select white balance. (Auto/Sunny/Cloudy/Tungsten/Fluorescent/Darkness)
 5. **File Quality:** To select a file quality. (High/Normal/Economy)
 6. **Shutter Sound:** To select a shutter sound. (Shutter/Silent/Say "Cheez"/Ready! 123)
 7. **Color Effects:** To select a color effects. (Normal/Antique/Black & White/Negative)
 8. **Display Icon:** To select a icon "On" or "Off".
 9. **Fun Frame:** Select your favorite fun picture frame to decorate your picture.
 10. **Sub LCD:** To taking picture with Sub LCD. By pressing **[△]** [OPTIONS], you can choose Sub LCD options: **1. Main LCD/2. Self Timer/3. Flash/4. Shutter Sound**
- User can control brightness and zoom and flash directly by pressing up and down navigation key.
 - Navigation Up / Down:** Zoom up & down.
 - Navigation Left / Right:** Brightness up & down (-2, -1, 0, +1, +2).




GET IT NOW

- 4** After take the taken picture be displayed.
To save the picture, press  [SAVE].

To go back to idle mode without saving the picture, press .

To take another picture without saving the picture you just took, press  [ERASE].







To send the picture to someone, press  [SEND].
Please refer to page 96 for more details on "New Pix Msg".







GET IT NOW

GET FUN & GAMES

DOWNLOADING NEW FUN & GAMES

- 1** Press  [MENU], then select "Get It now" menu or press , then press  "Get Fun & Games" then select  "Get New". (The BREW will launch and take you to the download menu.)
- 2** Use your navigation key to select a provider's browser, press  [OK].
- 3** Use your navigation key to select a "Fun or Games" you wish to download, press  [OK].

PLAYING DOWNLOADED FUN & GAMES

- 1** Press  [MENU], then select "Get It now" menu or press , then press  "Get Fun & Games".
- 2** To play downloaded fun or games.
Select the fun or games you want to play, then press  [PLAY].
- 3** To launch "BREW".

GET IT NOW

GET NEWS & INFO

CONNECTING NEWS & INFO

- 1 Press [MENU], then select "Get It now" menu or press →, then press 4 "Get News & Info" then select 1 "Connect Web".
- 2 Connect "WAP Browser".

GET GOING

CONNECTING GET GOING

- 1 Press [MENU], then select "Get It now" menu or press →, then press 5 "Get Going" then select 1 "Get New".
- 2 To launch "BREW".

Chapter 6

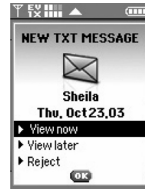
VOICE MAIL, TXT, PIX MESSAGING

This chapter addresses Voice Mail, TXT, Pix Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- NEW MSG
- INBOX
- SENT
- DRAFTS
- E-MAIL
- MOBILE IM
- CHAT
- ERASE ALL
- SETTINGS

WHEN A NEW MESSAGE ARRIVES

- 1 The following display appears when a new message arrives.



- 2 To display the message, select "View Now", then press **OK** [OK].

VOICE MAIL

Displays the number of voice mails and accesses them by pressing **SEND**.

- 1 Press **OK** [MENU], then select "Messaging" menu, press **5 3 1** "Voice Mail" or press **△** [MESSAGES], press **5 3 1** "Voice Mail".

FIRST TIME USER

- 1 Dial *86 then press **SEND** [SEND].
- 2 At the recording, press **5 3 1**.
- 3 To set up your account follow the voice tutorial.

EXISTING USER

- 1 Dial *86 then press **SEND** [SEND].
- 2 At the recording, enter your 4 digit password, then press **5 3 1**.
- 3 To listen to new messages, press **1 2**.

NEW MSG

To send a new txt message:

- 1 Press **OK** [MENU], then select "Messaging" menu, press **1 2** "New Msg", then press **1 2** "New Txt Msg" or press **△** [MESSAGE], press **1 2** "New Msg", then press **1 2** "New Txt Msg".

- 2 Under "To", input the phone number and press **OK**.

- By pressing **△** [ADD], you can choose from the following:
 1. **Contacts** : Search the phone number which is stored in the contacts list.
 2. **Groups** : Search the group which is stored in the contacts list.
 3. **Recent Calls** : Search the phone number which is stored in the recent calls list.



To field support max 10 contacts.

- 3 Under "Message", input a new TXT message. (Please refer to page 31 for more details on entering letters, numbers and symbols.)

- By pressing **△** [OPTIONS], then select "ADD". You can choose from the following:
 1. **Graphics** : Inserts simple graphic image in TXT Msg.
 2. **Sounds** : Inserts EMS sound in TXT Msg.
 3. **Quick Text** : Inserts already written sentences in TXT Msg.



If one of field is inserted in txt msg field, message save at draft box.

- 4 To save the Txt message, press **△** [OPTIONS], then select "Save As Drafts".

Press **△** [OPTIONS], then select "Priority Level", select "High" or "Normal", then press **OK** [OK].

- 5 To send the Txt message, press **OK** [SEND].

NEW MSG

To send a new pix message:

1 Press [MENU], then select "Messaging" menu, press "New Msg", then press "New Pix Msg" or press [MESSAGE], press "New Msg", then press "New Pix Msg".

2 Under "To", input the phone number and press .

- By pressing [ADD], you can choose from the following:
 - Contacts** : Search the phone number which is stored in the contacts list.
 - Groups** : Search the group which is stored in the contacts list.
 - Recent Calls** : Search the phone number which is stored in the recent calls list.
 - To PIX Place** : To send pictures by using online Address.



To field support max 10 contacts.

3 Under "Text", input a new TXT message then press .
(Please refer to page 31 for more details on entering letters, numbers and symbols. Max 1000 characters support.)

- By pressing [OPTIONS].
Add Quick Text : Inserts already written sentences in TXT Msg.

4 Under "Picture", user can insert only one picture and be able to remove inserted picture.
Press [GALLERY], then select the picture you'd like to send and press .

5 Under "Sound", user can insert only on sound and be able to remove inserted sound.
Press [SOUND], then select the sound you'd like to send and press .

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NEW MSG

6 Under "Subject", input a subject then press .
(Please refer to page 31 for more details on entering letters, numbers and symbols. Max 100 characters support.)

- By pressing [OPTIONS].
Add Quick Text : Inserts already written sentences in TXT Msg.

7 To preview a written picture message, press [OPTIONS], then select "Preview".

To save the Pix message, press [OPTIONS], then select "Save As Drafts".

Press [OPTIONS], then select "Priority Level", select "High" or "Normal", then press [OK].

To add slide, press [OPTIONS], then select "Add Slide".

8 To send the Pix message, press [SEND].

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INBOX

The Inbox manages received TXT/PIX/WAP Push messages. To access:

- 1 Press [MENU], then select "Messaging" menu, press "Inbox" or press [MESSAGE], press "Inbox".

: Lock	: Pix Unread
: Priority	: Pix Read
: Read	: MMS Push
: Unread	: Wap Push
: EMS Unread	: EMS Read

- 2 Select a message, then press [OPEN].
The message is displayed. To delete a message, press [ERASE], press [OK].
If you select WAP Push message, press [GET], to Browser launching.
- 3 Press [OPTIONS].

PLAY AGAIN

- 1 To play a sound from a received pix message.

FORWARD

- 1 To forward the TXT or PIX message.
- 2 Input the phone number of the person you are sending the message, then press [OK].
- 3 Input any text message to go along with the forwarded message, then press [OK].

INBOX

ERASE

- 1 To erase this message, select "Erase", then select "Yes", press [OK].

REPLY W. COPY

- 1 To reply to a received message and include the received message into the message.
- 2 The default call back number is automatically included into the Default CB# field.
You can scroll to the number and edit it.
- 3 To send the TXT or PIX message, press [OK].

SAVE GRAPHIC

- 1 To save a picture to the "Save Graphic" folder.

SAVE SOUND

- 1 To save a sound to the "Save Sound" folder.

SAVE QUICK TEXT

- 1 Select to save received text msg to "Quick Text".



"Play Again", "Save Graphic", "Save Sound" menu appears only when you receive a pix message or EMS message.

INBOX

LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press .

ADD TO CONTACTS

- 1 Select to save number to contacts.

MESSAGE INFO

- 1 To show received pix message information.

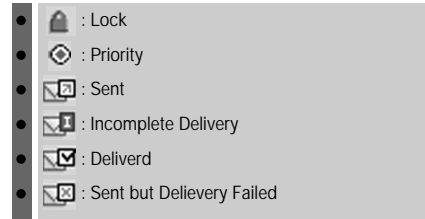


- "Message Info" menu appears only when you receive a pix message.
- Place a call to a received message number by simply pressing .

SENT

Manages sent TXT/PIX messages or messages waiting to be sent.

- 1 Press [MENU], then select "Messaging" menu, press "Sent" or press [MESSAGE], press "Sent".



- 2 Select a message then press [OPEN]. The message is displayed. To delete a message, press [ERASE], press [OK].
- 3 Press [OPTIONS].

PLAY AGAIN

- 1 To play a sound from a received pix message.

FORWARD


- 1 To forward the TXT or PIX message.
- 2 Input the phone number of the person you are sending the message, then press [OK].
- 3 Input any text message to go along with the forwarded message, then press [OK].

RESEND


- 1 To resend a TXT or PIX message.

SENT

ERASE

- 1 To erase this message, select "Erase".
- 2 Select "Yes" or "No", then press .

LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press .

ADD TO CONTACTS

- 1 Select to save number to contacts.


SAVE QUICK TEXT

- 1 Select to save received text msg to "Quick Text".

MESSAGE INFO





- 1 To show received pix message information.

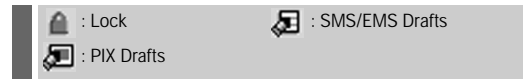






- "Message Info" menu appears only when you receive a pix message.
- Place a call to a received message number by simply pressing .

DRAFTS

Draft Folder contains any draft messages or saved messages. If message composition is interrupted by a voice call or other interrupting event, the text of the current composition is automatically saved in the drafts folder.

- 1 Press  [MENU], then select "Messaging" menu, press  "Drafts" or press  [MESSAGE], press  "Drafts".




- 2 Select a message then press  [EDIT]. The message is displayed. To delete a message, press  [ERASE], press  [OK].
- 3 Press  [OPTIONS].

SEND

- 1 To send a selected message.





LOCK/UNLOCK

- 1 To lock or unlock the TXT or PIX message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press .

ADD TO CONTACTS





- 1 Select to save number to contacts.

E-MAIL

1 Press  [MENU], then select "Messaging" menu, press  "E-mail" or press  [MESSAGE], press  "E-mail".

2 Launch Browser.

MOBILE IM

1 Press  [MENU], then select "Messaging" menu, press  "Mobile IM" or press  [MESSAGE], press  "Mobile IM".

2 Launch BREW.

CHAT

- 1 Press [MENU], then select "Messaging" menu, press "Chats" or press [MESSAGE], press "Chat".
- 2 Launch Browser.

ERASE ALL

- 1 Press [MENU], then select "Messaging" menu, press [OPTIONS] or press [MESSAGE], press [OPTIONS].
- 2
 - 2.1. To erase all the inbox messages, press [ERASE INBOX].
 - 2.2. To erase all the drafts messages, press [ERASE DRAFTS].
 - 2.3. To erase the sent messages, press [ERASE SENT].
 - 2.4. To erase the all message, press [ERASE ALL].
- 3 Select "Yes", then press .

SETTINGS

Manages messaging features through various features.

ALL MSG SETTINGS

AUTO SAVE

- 1 Press **[OK]** [MENU], then select "Messaging" menu, press **[LEFT]** [SETTINGS] or press **[LEFT]** [MESSAGE], press **[LEFT]** [SETTINGS], press **[RIGHT]** "All Msg".
- 2 Press **[RIGHT]** [AUTO SAVE].
Select "On", "Off" or "Prompt" with the Navigation Key.

- On : All sent messages saved in the Sent box.
- Off : All sent messages not saved in the Sent box
- Prompt : "Yes", "No" dialogue box displayed after sent message.

- 3 Press **[OK]** [OK].

AUTO ERASE

Automatically erases inbox messages when new messages arrive.

- 1 Press **[OK]** [MENU], then select "Messaging" menu, press **[LEFT]** [SETTINGS] or press **[LEFT]** [MESSAGE], press **[LEFT]** [SETTINGS], press **[RIGHT]** "All Msg".
- 2 Press **[RIGHT]** [AUTO ERASE].
Select "On" or "Off" with the Navigation Key.

- On : Oldest message erased frm inbox automatically when message is full.
- Off : Oldest message not erased frm inbox automatically when message is full.

- 3 Press **[OK]** [OK].

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SETTINGS

QUICK TEXT

To edit the Quick Text message you have saved:

- 1 Press **[OK]** [MENU], then select "Messaging" menu, press **[LEFT]** [SETTINGS] or press **[LEFT]** [MESSAGE], press **[LEFT]** [SETTINGS], press **[RIGHT]** "All Msg".
- 2 Press **[RIGHT]** [QUICK TEXT].
2.1. Select a message from the list.
Press **[OK]** [OK].
2.2. To add a new Quick Text message, press **[RIGHT]** [OPTIONS] to select "Add New".
To edit the Quick Text message you have selected, press **[RIGHT]** [OPTIONS] to select "Edit", then enter text, press **[OK]** [SAVE].
- 3 To erase the saved Quick Text message, press **[LEFT]** [ERASE].

Pre-defined quick text as below.

1. What's up?/2. Let's meet/3. Check this out!/4. Whacha doing?/5. Thanks/6. What do you think?/7. You've gotta be here to enjoy this/8. Would you like to join me for a date tonight?/9. On my way/10. Yes/11. You're the best!/12. Call me

VOICE MAIL#

- 1 Press **[OK]** [MENU], then select "Messaging" menu, press **[LEFT]** [SETTINGS] or press **[LEFT]** [MESSAGE], press **[LEFT]** [SETTINGS], press **[RIGHT]** "All Msg".
- 2 Press **[RIGHT]** [VOICE MAIL#].
Input a new voice call back number or edit voice call back number.
- 3 Press **[OK]** [OK].

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SETTINGS

ENTRY MODE

Sets an Entry Mode as a default. For example, if T9 Mode is the default, its icon will appear.

- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "All Msg".
- 2 Press [ENTRY MODE].
Select "T9Word", "Abc", "ABC", "123" or "Symbols" with the Navigation Key.
- 3 Press [OK].

CALLBACK

Edits a default callback number so that the recipient can callback or reply.

- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "All Msg".
- 2 Press [CALLBACK#].
Select "On" or "Off" with the Navigation Key.
- 3 Select "On", then input a callback number, press [OK].

SETTINGS

SIGNATURE

Create a signature that can be automatically inserted at the end of a message.

- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "All Msg".
- 2 Press [SIGNATURE].
To activate Signature function, put the cursor on Insert Signature then select "Custom" by using right or left direction keys. To deactivate Signature function, select "None".
- 3 To input "Signature", put the cursor on Edit Signature.
- 4 Press [OK].

SETTINGS

TXT MSG SETTINGS

AUTO VIEW

If the "Auto View" is set to on, the user will be able to view the message. If the "Auto View" is set to off, the user can view the message by entering SMS Menu-> Inbox.

- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "TXT Msg".
- 2 Press [AUTO VIEW].
Select "On" or "Off" with the Navigation Key.

- On : Text message be displayed automatically.
- Off : User able to retrieve the message from the inbox or based on user input from interactive notification.

- 3 Press [OK].

BLOCK / UNBLOCK

- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "TXT Msg".
- 2 Press [BLOCK/UNBLOCK].
Select "Block", "Unblock" or "View List of Blocked Addresses" with the Navigation Key.

- BLOCK : Enter the address to block.
- UNBLOCK : Enter the address to remove from block.
- VIEW LIST OF BLOCKED ADDRESSES : Display the blocked list on LCD.

- 3 Press [OK].

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SETTINGS

SIGNATURE

Create a signature that can be automatically inserted at the end of a message.








- 1 Press [MENU], then select "Messaging" menu, press [SETTINGS] or press [MESSAGE], press [SETTINGS], press "TXT Msg".
- 2 Press [SIGNATURE].
To activate Signature function, put the cursor on Insert Signature then select "Custom" by using right or left direction keys. To deactivate Signature function, select "None".
- 3 To input "Signature", put the cursor on Edit Signature.
- 4 Press [OK].

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MEMO








PIX MSG SETTINGS

AUTO RECEIVE

- 1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "PIX Msg".
- 2 Press  [AUTO RECEIVE].
Select "On" or "Off" with the Navigation Key.
 - On : Pix msg downloaded automatically.
 - Off : User able to retrieve the message from the inbox or based on user input from interactive notification.
- 3 Press  [OK].

SIGNATURE

Create a signature that can be automatically inserted at the end of a message.

- 1 Press  [MENU], then select "Messaging" menu, press  [SETTINGS] or press  [MESSAGE], press  [SETTINGS], press  "PIX Msg".
- 2 Press  [SIGNATURE].
To activate Signature function, put the cursor on Insert Signature then select "Custom" by using right or left direction keys. To deactivate Signature function, select "None".
- 3 To input "Signature", put the cursor on Edit Signature.
- 4 Press  [OK].

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Chapter 7

MOBILE WEB 2.0

This chapter addresses Internet services and web browsing.
For more detailed information contact your service provider.


- STARTING INTERNET BROWSER
- BROWSER MENU

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STARTING INTERNET BROWSER

LAUNCHING MOBILE WEB 2.0

Now you can access news, sports, weather, and e-mail from your phone. Mobile Web 2.0 keeps you updated by providing access to up-to-date information such as news, sports, weather and stock quotes when you subscribe to Internet service with your service provider. Please contact your service provider for a list of available websites and service details.




- 1 To start your Internet browser and access websites through your wireless handset press .

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. Press , then press  [MENU].




VZW HOME

When the "VZW Home" item is selected from the Browser Menu, the phone displays the homepage.

- 1 To display the homepage. Press , then press  [MENU] .

BACK




When the "Back" item is selected from the Browser Menu, the phone displays the previous page in the history.

- 1 To return to the previous page. Press , then press  [MENU] .

BROWSER MENU




FORWARD

When the "Forward" item is selected from the Browser Menu, the phone displays the next page in the history. This is only available if the user has navigated backward in the history.

- 1 To forward to the next page. Press , then press  [MENU] .




REFRESH

Selecting the "Refresh" item from the Browser Menu refreshes the current page.

- 1 To select "Refresh". Press , then press  [MENU] .




HISTORY

The history list is available from the Browser Menu and the user may delete all items from the history.

- 1 To select "History". Press , then press  [MENU] .




ADDRESS

Selecting the "Address" item from the Browser Menu displays the URL of the current page.

- 1 To select "Address". Press , then press  [MENU] .

CLEAR MEMORY




The user may clear cache, history, cookies and auto fill from the memory.

- 1 To clear browser memory. Press , then press  [MENU] .

BROWSER MENU

SETTINGS

1 To select "Settings".

Press , then press  [MENU] .


- **Downloads** : Selecting the "Downloads" item allows the user to enable/disable downloading images, background sounds, and object downloads when a URL is accessed.
- **Restart Browser** : Selecting "Restart Browser" causes the history and cache to be cleared and returns the user to the homepage.
- **Scroll Mode** : Selecting the "Scroll Mode" item is selected from the Settings menu allows the user to select between time-square scrolling (referred to as block scrolling) and smooth scrolling and to select the speed of the smooth scrolling. Scrolling speed choices are medium, fast, and slow.
- **Send Referrer** : When the "Send Referrer" item is selected from the Settings menu, the browser allows the user to turn on or off sending the referrer URL.
- **Key Press Timeout** : When the "Key Press Timeout" item is selected from the Settings menu, the browser allows the user to set the key press timeout as fast, medium or slow. Medium is 1.5 seconds, slow 2 seconds and fast is 1 second. The key press timeout is the period of time after which the cursor auto-advances to the next entry position. In most cases, a single key can be used to enter more than one character. Each time the key is pressed the last character of the line is replaced by the next choice for that key. As long as the same key is re-pressed within key press timeout, the last character cycles between all the choices for the key.
- **Connection Timeout** : When the Connection Timeout item is selected from the Settings menu, the browser allows the user to set the connection timeout. The connection timeout determines how long the browser will wait for a response from the network for a network request.

BROWSER MENU

ADVANCED

Selecting the "Advanced" item in the Browser Menu displays the advanced menu items.

1 To select "Advanced".




Press , then press  [MENU] .

- **About...** : When the "About" item is selected information about the browser version, copyright information and certificate information is displayed.
- **Encryption** : Selecting the "Encryption" item from the Advanced Menu enable the user access to Encryption features of the browser.
 1. **Authentication** : The "Authentication" item in the Encryption menu allows the user to toggle authentication caching.
 2. **Root Certificate** : The "Root Certificate" item in the Encryption menu allows the user to view the list of certificates.
 3. **Current Certificate** : The "Current Certificate" item in the Encryption menu allows the user to view the current certificate. This is only available if a secure connection is established.

BROWSER MENU

EXIT

When the "Exit" item is selected from the Browser Menu, the user exits out of the browser and is returned to the phone idle mode.

- 1 To exit browser.
Press  , then press  [MENU]  .

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Before operating your phone, please be aware of all the safety details.

This chapter contains the terms and conditions of services and the warranty for your phone. Please review them thoroughly.

- SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES
- SAFETY INFORMATION FOR FCC RF EXPOSURE
- SAR INFORMATION
- FCC Hearing-Aid Compatibility (HAC) Regulations for Wireless Devices
- FDA CONSUMER UPDATE
- PROTECT YOUR WARRANTY
- 12 MONTH LIMITED WARRANTY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

*Read This Information Before Using Your Handheld
Portable Cellular Telephone*

EXPOSURE TO RADIO FREQUENCY SIGNALS

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals.

In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for handheld wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

ANSI C95.1 (1992) *
NCRP Report 86 (1986) *
ICNIRP (1996) *

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

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

ANTENNA CARE

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

1* : American National Standards Institute.
2* : National Council on Radiation protection and measurements.
3* : International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

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.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

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.

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.

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.

POSTED FACILITIES

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

AIRCRAFT

FCC and Transport Canada Regulations prohibit using your phone while in the air. Turn your phone OFF before boarding an aircraft.

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.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS

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

-  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 Pantech cellular service center. If unit is disassembled, the risk of electric shock or fire may result.
-  DO NOT short-circuit the battery terminals with metal items etc.

SAFETY INFORMATION FOR FCC RF EXPOSURE



WARNING! Read this Information before using

CAUTIONS

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

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations.

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.

BODY-WORN OPERATION

This device was tested for typical body-worn operations with the back of the phone kept 2.0 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.0 cm. separation distance between the user's body and the back of the phone, including the antenna. The use of belt-clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.



For more information about RF exposure, please visit the FCC website at 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 1.25 W/Kg and when worn on the body, as described in this user guide, is 0.527W/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 20mm separation. The User's Manual indicates that any holsters/clips used with this device should contain no metallic components.

SAR INFORMATION

The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on PP4TX-215.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) website at <http://www.wow-com.com>.

* 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.

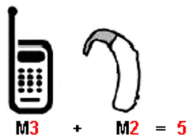
While some wireless phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

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.



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

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/dro/hearing.html>
- **Gallaudet University, RERC**
<http://tap.gallaudet.edu/DigWireless.KS/DigWireless.htm>
- **Self Help for Hard of Hearing People Inc. [SHHH]**
www.hearinglpss.org/hat/TipsWirelessPhone.htm
- **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 hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones.

FDA CONSUMER UPDATE

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 pre-disposed 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.

FDA CONSUMER UPDATE

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 wire-less 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.

FDA CONSUMER UPDATE

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 wire-less 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 wire-less phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

- For additional information, please refer to the following resources:
- FDA web page on wireless phones (<http://www.fda.gov/cdrh/phones/index.html>)
 - 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/emf>)
 - National Radiological Protection Board (UK) (<http://www.nrp.org.uk>)

PROTECT YOUR WARRANTY

Read your Warranty carefully, with the special consideration to paragraph seven of the Limited Warranty for your unit.

“Warranty does not apply to... or to any product or part thereof which has suffered through alteration... mishandling misuse, neglect or accident”.

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the Pantech product. Be careful. Some of these products may not be compatible to use with your Pantech product and may damage the unit or cause it to malfunction. If service is required on your unit and it is determined that a non-Pantech accessory has created the problem with your unit, the Warranty will not apply. In addition, if the unit has already suffered irreversible damage by reason of a non-compatible accessory, the Warranty will be voided. To protect your Warranty, use only compatible accessories which cannot damage or interfere with the functioning of your Pantech product.

PANTECH

PANTECH COMMUNICATIONS

Pantech Canada Company

12 MONTH LIMITED WARRANTY

Pantech Communications (the Company) warrants to the original retail purchaser of this Pantech 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) months 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, key pad, display, rechargeable battery and battery charger, if included, are similarly warranted for twelve (12) months from date of purchase.

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

This Warranty does not apply to:

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

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.

12 MONTH LIMITED WARRANTY

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 905-712-9299).

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 : Pantech Communications

IN CANADA : Pantech Canada Company