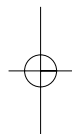


User's Guide



TX-170 S



WELCOME

Thank you for choosing the up-to-date TX-170SA, 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 & fax services, and a GUI animation menu.

Among its many advanced features, the T9 input mode makes it much easier to enter letters. In addition, VR (Voice Recognition) makes it more user friendly, with proven technologies including:

- Full graphic display of 9 text input line 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, wireless fax send/receive, UP browser)
- GUI & Animation display compliant with CDMA2000 1X.
- CSTN 65K Color LCD.
- Mobile camera (310K pixels)
- Navigation key and 21 keys aligned for more convenience.
- Sophisticated features of speaker phone, and voice recognition.
- Additional services of text messaging and Web browsing on top of authentication, call forwarding, call transfer, call waiting.

IMPORTANT INFORMATION

This TX-170S user guide contains very important information about how to handle and use the product. So 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.

TABLE OF CONTENTS

CHAPTER 1. BEFORE USING YOUR PHONE	5
INSIDE THE PACKAGE	6
HANDSET DESCRIPTION	7
THE FUNCTION KEYS	8
DISPLAY INDICATORS	9
BATTERY USAGE	10
BATTERY INSTALLATION	10
BATTERY REMOVAL	11
BATTERY CHARGING	11
POWER CONNECTION	11
PCS AND 1X BATTERY TIMES	12
BATTERY LIFE (FOR NEW BATTERY)	12
BATTERY HANDLING INFORMATION	13
DOs	13
DON'Ts	13
CHAPTER 2. BASIC OPERATION	15
TURNING THE PHONE ON / OFF	16
TURNING THE PHONE ON	16
TURNING THE PHONE OFF	16
ACCESSING THE MENU	17
MENU SUMMARY	18
BASIC FUNCTIONS	21
MAKING A CALL	21
SPEAKER PHONE	22
PAUSE FEATURE	22
ANSWERING A CALL	23
3 WAY CALL FUNCTION	23
CALLER ID FUNCTION	24
CALL WAITING FUNCTION	24
ADJUSTING VOLUME	24
ETIQUETTE	25
LOCK	25
DURING A CALL	26
MESSAGING	26
MUTE (UNMUTE)	26
SCRATCHPAD	26
SEND MY PHONE #	26
MY PHONE #	27
VOICE PRIVACY	27
LOCATION	27
PHONE INFO	27
MAKING AN EMERGENCY CALL	28
911 IN LOCK MODE	28
911 USING ANY AVAILABLE SYSTEM	28
CHAPTER 3. MEMORY FUNCTION	29
STORING A PHONE NUMBER	30
ENTERING LETTERS, NUMBERS & SYMBOLS	31
STANDARD INPUT MODE	32
T9 INPUT MODE	33
NUMERIC MODE	34
SYMBOL MODE	34
MAKING A CALL THROUGH THE PHONE BOOK	35
ONE-TOUCH/TWO-TOUCH DIALING	35
ONE-TOUCH DIALING	35
TWO-TOUCH DIALING	35
CHAPTER 4. MENU FUNCTION	37
PHONE BOOK	38
FIND	38
ADD NEW	39
GROUP	39
ADD NEW GROUP	39
CHANGE GROUP NAME	40
ERASE GROUP	40
SPEED DIAL	41

TABLE OF CONTENTS

MSG. GROUP.....	42
ADD NEW MSG. GROUP.....	42
CHANGE MSG. GROUP NAME.....	42
SEND TEXT MSG. GROUP.....	43
SEND PIX MSG. GROUP.....	44
ERASE GROUP.....	44
MY PHONE #.....	44
RECENT CALLS.....	45
ALL CALLS.....	45
MISSED CALLS.....	46
RECEIVED CALLS.....	47
DIALED CALLS.....	48
CALL TIMERS.....	49
LAST CALL.....	49
ALL CALLS.....	49
HOME CALLS.....	49
ROAM CALLS.....	50
CUMULATIVE CALLS.....	50
1X PACKET COUNTER.....	51
RECEIVED.....	51
TRANSMITTED.....	51
TOTAL.....	51
GET IT NOW.....	52
START GET IT NOW.....	52
DOWNLOADING APPLICATIONS.....	52
DOWNLOADING MELODIES/WALLPAPERS.....	52
APPLYING MELODIES/WALLPAPERS.....	53
CHECKING DATA FOLDER MEMORY.....	53
ERASING AN APPLICATION.....	53
MOBILE WEB.....	54
CONNECT WEB.....	54
MEDIA GALLERY.....	55
IMAGES.....	55
GRAPHICS.....	55
ANIMATIONS.....	55
PIX.....	56
TONES.....	56
SETTINGS.....	57
SOUNDS.....	57
RINGER TYPE.....	57
VOLUME.....	58
ALERT.....	59
ROAM RINGER.....	60
TONE LENGTH.....	60
ETIQUETTE.....	61
DISPLAY.....	62
MENU STYLE.....	62
GRAPHICS.....	62
SUB SCREEN.....	64
GREETING MESSAGE.....	65
CONTRAST.....	65
BACKLIGHT.....	66
DATA SVC.....	67
CONNECTION.....	67
SECURITY.....	68
PHONE LOCK.....	68
RESTRICT.....	68
CHANGE CODE.....	71
SPECIAL #'S.....	71
ERASE ALL.....	72
RESET PHONE.....	72
OTHERS.....	73
ANSWER OPTIONS.....	73
AUTO RETRY.....	74
LANGUAGE.....	75
VOICE PRIVACY.....	75
TTY MODE.....	76

TABLE OF CONTENTS

LOCATION.....	76
SYSTEM.....	77
SET MODE.....	77
NAM SETTING.....	78
PRL ID.....	78
PHONE INFO.....	79
SAW VERSION.....	79
H/W VERSION.....	79
GET IT NOW VERSION.....	79
UTILITIES.....	80
SCHEDULE.....	80
ADD NEW PLAN.....	80
VIEW PLAN.....	81
ALARM.....	81
MEMO PAD.....	83
ADD MEMO.....	83
VIEW MEMO.....	83
SETTINGS.....	83
CALCULATOR.....	84
WORLD CLOCK.....	84
STOP WATCH.....	85
CAMERA.....	86
TAKE PIX.....	86
TAKING A PICTURE THROUGH THE MENU.....	86
TAKING A PICTURE IN IDLE MODE.....	86
CAMERA MODE OPTIONS.....	87
PIX GALLERY.....	88
PIX MESSAGE.....	88
HELP.....	90
CHAPTER 5. VOICE SERVICE.....	91
VOICE RECOGNITION MODE.....	92
NAME.....	92
VOICE TOOLS MENU.....	93
VOICE MEMO.....	93
VOICE DIAL.....	94
TRAIN WORDS.....	95
YES.....	95
NO.....	95
WAKE-UP.....	96
UNDO TRAIN ALL.....	96
VOICE SETTING.....	97
SET ACTIVE.....	97
HFK MODE.....	97
CHAPTER 6. VOICE MAIL AND TEXT MESSAGE.....	99
WHEN A NEW MESSAGE ARRIVES.....	100
VOICE MAIL.....	100
NEW TEXT MSG.....	101
NEW PIX MSG.....	102
INBOX.....	104
PIX INFO.....	104
PLAY SLIDE SHOW.....	104
REPLY.....	104
REPLY WITH COPY.....	105
FORWARD.....	105
SAVE MEDIA.....	105
SAVE TO CONTACT.....	105
SAVE TO SAVED.....	106
SAVE TO QUICK TEXT.....	106
BLOCK SENDER.....	106
LOCK & UNLOCK.....	106
OUTBOX.....	107
CHECKING SENT TEXT MESSAGES.....	107
PIX INFO.....	107
RESEND.....	107
EDIT MESSAGE.....	107

TABLE OF CONTENT

SAVE TO CONTACT.....	108
SAVE TO SAVED.....	108
LOCK & UNLOCK.....	108
STATE.....	108
WEB ALERTS.....	109
SAVED.....	110
QUICK TEXT.....	111
ERASE ALL.....	112
ERASE MESSAGES.....	112
SETTINGS.....	113
AUTO SAVE.....	113
SAVE SENT MSG.....	113
PIX RECEIVE MODE.....	113
AUTO ERASE.....	114
AUTO ERASE INBOX.....	114
AUTO ERASE OUTBOX.....	114
DEFAULT CALL BACK.....	115
EDIT VOICE C.B.....	115
REMIND.....	116
EDIT SIGNATURE.....	116
DIRECT VIEW.....	117
ENTRY MODE.....	117
BLOCK OR UNBLOCK.....	118

CHAPTER 7. WEB BROWSING 119

START INTERNET BROWSER.....	120
ACCESS THE INTERNET.....	120
BROWSER MENU.....	120
HOME.....	120
BACK.....	120
FORWARD.....	120
REFRESH.....	121
HISTORY.....	121
ADDRESS.....	121
CLEAR MEMORY.....	121
SETTINGS.....	121
ADVANCED.....	122
EXIT.....	122

CHAPTER 8. SAFETY AND WARRANTY 123

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES.....	124
DRIVING SAFETY.....	125
ELECTRONIC DEVICES.....	126
OTHER SAFETY GUIDELINES.....	127
PRECAUTIONS.....	128
SAFETY INFORMATION FOR FCC RF EXPOSURE.....	129
CAUTIONS.....	129
SAR INFORMATION.....	130
FDA CONSUMER UPDATE.....	132
PROTECT YOUR WARRANTY.....	136
12 MONTH LIMITED WARRANTY.....	137

Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the TX-170SA including:

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

INSIDE THE PACKAGE

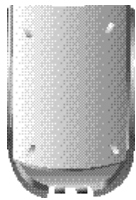
This package should include all items pictured below. If any are missing or different, immediately contact the retailer where you purchased the phone.



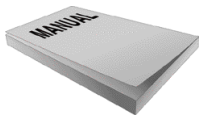
Handset



AC Charger



Standard Battery



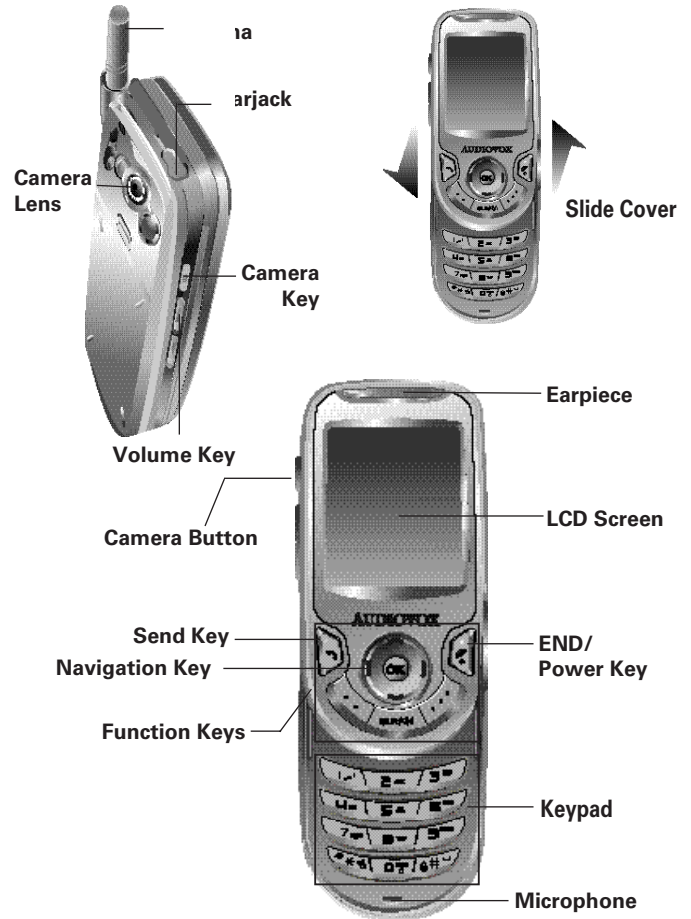
User Manual



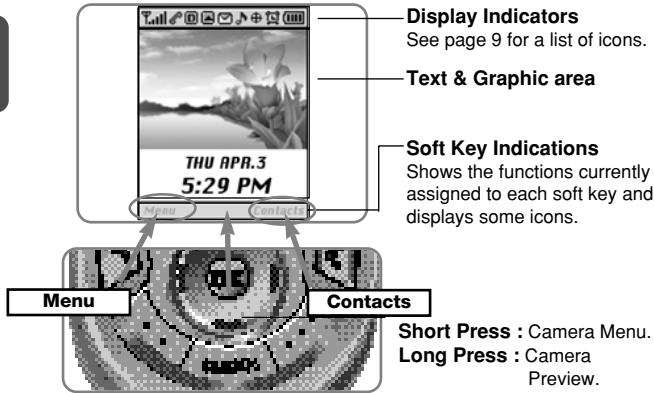
Handstrap

HANDSET DESCRIPTION

This phone is a tri mode (800 MHz AMPS/CDMA, 1900 MHz PCS) CDMA2000 1X digital phone with camera and web browsing capabilities. The TX-170S weighs 3.7oz. And the dimensions are 1.83" x 4.48" x 0.97".



HANDSET DESCRIPTION



THE FUNCTION KEYS



Press to make or receive a call.
Press and hold to turn on VR mode.



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 menu or function displayed on bottom line.



(Right Soft Key) Press to add a new contact or function displayed on bottom line.



Press to clear a digit from the display or to return to the previous page.
Press and hold to enable speaker phone mode.



Press and hold to enter etiquette mode.



Press and hold to enter lock mode.

HANDSET DESCRIPTION

DISPLAY INDICATORS



Signal Strength - Current signal strength: the more lines, the stronger the signal.



Roaming
Phone is out of home area.



Service Indicator
Indicates call is in progress, indicates the phone cannot receive a signal from the system.



Message
New text or voice message.



Digital mode
Phone is operating in digital mode.



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



Mute
Phone is mute during a call.



Silent
Appears when Silent is selected as the ring mode.



Emergency Call
Blinks when an emergency call is in progress.



Auto Answer
Phone is in answering machine mode.



Speakerphone
Phone is in speakerphone mode.



Etiquette
Phone will vibrate when call is received.



Schedule
Appears when either an event or an alarm is set.



Ring Mode
Appears when a ringer is set as a ringer mode.



Dormant
Indicates the phone is in disconnection condition while on "Server Connection".

BATTERY USAGE



Data Only

Receives an async. call as a voice call.



GPS Icon

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



1X

Phone is in the 1x service area.



Scratch Pad

Displays when scratchpad is in use during a call.



Unread Web Message



Web Message + Text Message



Web Message + Voice Message



Web Message + Text Message + Voice Message

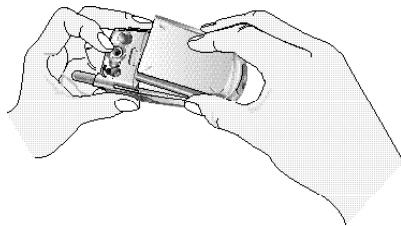


UP Browser

Phone is in the progress of UP Browser.

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.

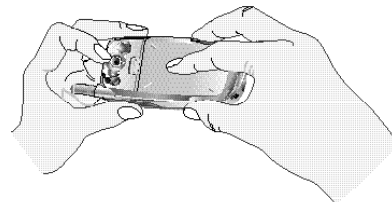


10

BATTERY USAGE

BATTERY REMOVAL

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

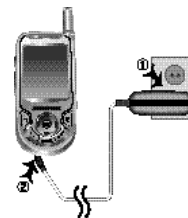


If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.

BATTERY 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 on to the phone.



11

BATTERY USAGE



- 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.

PCS AND 1X BATTERY TIMES

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

Battery Capacity	DCS	PCS
STD 1000 mAh	200m	190m
EXT 1700 mAh	330m	310m

BATTERY LIFE (FOR NEW BATTERY)

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

Battery Capacity	CDMA
STD 1000 mAh	190 Hours
EXT 1700 mAh	310 Hours



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

BATTERY HANDLING INFORMATION

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.

Chapter 2


BASIC OPERATION

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


TURNING THE PHONE ON / OFF

TURNING THE PHONE ON

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

- To select a logo, refer to page 62 for more details. (Settings>Display>Graphics) for more detail.
- If your phone is locked when "Password" appears on the display enter your 4-digit password to unlock your phone.
- The default password is the last 4 digits of your phone number.

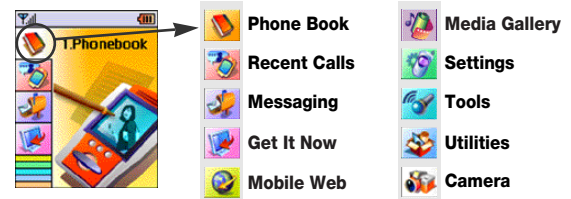
TURNING THE PHONE OFF




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

- **NOTE** Immediately change or recharge the battery when "Low Battery Warning Power 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 down.
- 3 To return to the previous page, press  [CLR]. 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 : Phone Book
- Downward movement : Messaging
- Rightward movement : Get It Now
- Leftward movement : Mobile Web

MENU SUMMARY

1. Phone Book 	<ol style="list-style-type: none"> Find Add New Group Speed Dial Msg. Group My Phone # 		
2. Recent Calls 	<ol style="list-style-type: none"> All Calls Missed Calls Received Calls Dialed Calls Call Timers 	<ol style="list-style-type: none"> Last Call All Calls Home Calls Roam Calls Cumulative Calls 	
	6. 1X Packet Counter	<ol style="list-style-type: none"> Received Transmitted Total 	
3. Messaging 	<ol style="list-style-type: none"> New Text Msg New Pix Msg Voice Mail Inbox Outbox Web Alerts Saved Quick Text Erase All 	<ol style="list-style-type: none"> Inbox Outbox Saved 	<ol style="list-style-type: none"> Old Inbox Entire Inbox
	10. Settings	<ol style="list-style-type: none"> Auto Save Auto Erase Default Callback Edit Voice C.B Alert Edit Signature Direct View Entry Mode Block or Unblock 	<ol style="list-style-type: none"> Save sent MSG PIX receive mode Inbox Outbox
4. Get It Now 	1. Get It Now	Get It Now Settings Help	<ol style="list-style-type: none"> Block Unblock View List of Blocked Address
5. Mobile Web 	1. Connect web		

MENU SUMMARY

6. Media Gallery 	<ol style="list-style-type: none"> Images Pix Tones 	<ol style="list-style-type: none"> Graphics Animations 	
7. Settings 	<ol style="list-style-type: none"> Sounds Display Data SVC. Security Others 	<ol style="list-style-type: none"> Ringer Type Volume Alert Roam Ringer Tone Length Etiquette Menu Style Graphics Greeting Message Contrast Backlight Connection Phone Lock Restrict Change Code Special #'s Erase All Reset Phone Answer Options Auto Retry Language Voice Privacy TTY Mode Location 	<ol style="list-style-type: none"> Ringer Messages Voice Mail Ringer Key Tone Voice Call Speaker Phone Minute Roam Connect Fade On/Off Tones Wallpaper Power On Power Off Received Dialed Screen Saver Dialed Recent Calls Camera Data Call 900#s Long Distance Special #1 Special #2 Special #3 Call Answer Active Flip Auto Answer

MENU SUMMARY

8. Utilities	1. Tools	1. Voice Memo	1. Record
	2. Voice Dial	2. Voice Dial	2. Play
9. Camera	3. Train Words	3. Train Words	3. Play Speaker
	4. Voice Setting	4. Voice Setting	4. Erase All
6. System	1. Set Mode	1. Set Mode	1. Record
	2. Nam Setting	2. Nam Setting	2. Play
7. Phone Info	3. PRL ID	3. PRL ID	3. Play Speaker
	1. S/W Version	1. S/W Version	4. Erase All
8. Utilities	2. H/W Version	2. H/W Version	1. Record
	3. Get It Now Version	3. Get It Now Version	2. Play
9. Camera	1. Take Pix	1. New Pix	3. Play Speaker
	2. Pix Gallery	2. Saved Pix	4. Erase All
9. Camera	3. Pix Message		1. Record
	4. Help		2. Play
6. System			3. Play Speaker
			4. Erase All
7. Phone Info			2. No
			3. Wake-Up
8. Utilities			4. Undo Train All
			Set Active
9. Camera			HFK Mode

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 .

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 74).
- When you place or receive a call from stored phone numbers, both the name and phone number 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 94 (Voice Service) for more details.

3 To end a call, press .

BASIC FUNCTIONS




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





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 pause, enter a phone number then press  [MENU]. Select either a Hard Pause ("P" appears) or a Time Pause ("T" appears).
- 2 Press  to dial or  [SAVE] to store. Please refer to page 30 for more details about storing a phone number.

BASIC FUNCTIONS

ANSWERING A CALL

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

By pressing , , , , , you can select either "Any Key" or "Send Key" to answer a call. If "Send Key" is selected, the phone can only be answered by pressing . See page 73 for more information.




- 2 To end the call, press .



In Auto Answer Mode a call is automatically answered after a preset number of ring tones. See page 74 for more details.

3 WAY CALL FUNCTION

With Three-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 and press .
- 2 Once you have established the connection, enter the second number you wish to call and press .
- 3 When you're connected to the second party, press  again to begin your three-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.

BASIC FUNCTIONS

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 both will appear.



The caller ID is stored in the call history.

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

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



- 1 Press [MENU] and select one of the following.

- Ringer : Controls the ringer volume.
- Key Tone : Controls the key pad tone.
- Voice Call : Controls the earpiece volume.
- Speaker Phone : Controls the speaker volume.



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



Move the Navigation key up or down to adjust volume of Earpiece during a call.

BASIC FUNCTIONS

ETIQUETTE

Mutes key tones and activates the vibration mode to alert you of an incoming call or message.



- 1 To turn etiquette mode on/off, press and hold . will be displayed to indicate etiquette mode is active an audible tone sounds when etiquette is turned off.

LOCK

Locks your phone and prevents unauthorized use. Phone can only be used after inputting the password.



- 1 To lock the phone, press and hold .



- 2 To unlock the phone, press , or then input the password.

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



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

DURING A CALL

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

MESSAGING

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

1 Press [MENU] .

MUTE (UNMUTE)

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

1 Press [MENU] .

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

SCRATCHPAD

Stores a new phone number during a call without the calling party hearing the key pad tones.

1 Press [MENU] .

- Press [MENU] to deactivate it.

SEND MY PHONE

Automatically transmits your phone number to a pager during a call. (Dependent on pager service)

1 Press [MENU] .

DURING A CALL

MY PHONE

Displays your phone number.

1 Press [MENU] .

VOICE PRIVACY

Increases security during a call.

1 Press [MENU] .

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS). (Refer to page 76 for more details.)

1 Press [MENU] .

PHONE INFO.

Displays the software and hardware version of your phone.


1 Press [MENU] .

MAKING AN EMERGENCY CALL


This 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" and press .
- 2 The call connects.
- 3 The phone exits the Lock Mode for 5 minutes.
 - When the call ends, the phone returns to the Lock Mode.

911 USING ANY AVAILABLE SYSTEM

- 1 Enter "911" and 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

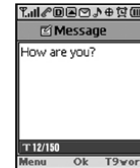
The phone book stores up to 300 entries.

- 1 Enter phone # and press [SAVE].
- 2 Choose "New Contact" or "Existing Contact". Press [OK] to select.
- 3 The Phone # will appear below to a list of icons. The name of the icon is displayed below the list. Use the Navigation key to choose the type of # you're adding, as indicated by the icon. Press [OK] to select.
- 4 Enter a name and press [OK]. 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 the group. Press the navigation key down to select other options (secret, email).
- 5 To store the entry, press [SAVE]. "New contact added!" or "Contact edited!" will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS

The input mode (Alpha editor) will be automatically 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 (NUM), 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 4 modes below, press [MODE], then enter letters and numbers.



Input mode indicator
 T9Word : T9 mode
 Abc : Abc mode
 NUM : Number mode
 Symbols : Symbol mode

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

KEY	FUNCTION
Mode	Press to change mode. [T9Word][Abc][NUM][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.
Clear	Press to delete a character to the left of the cursor.
Save	Store the letters and numbers you enter.

ENTERING LETTERS, NUMBERS & SYMBOLS

STANDARD INPUT MODE

Use the digit keys to enter letters, numbers 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
1	1	.	@	-	'
2ABC	A	B	C	2	A
3DEF	D	E	F	3	D
4GHI	G	H	I	4	G
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

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 . To delete the entire entry, press and hold .

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 and enter all the characters to input the word you want.

3 To view the next matching word, press .

4 To accept matching word and enter a space, press .



To enter a compound word.

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



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

- Press [Abc] to select the T9 input mode and to choose the small letter case (T9Word).

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

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

Chapter 4

MENU FUNCTION

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

- PHONE BOOK
- RECENT CALLS
- GET IT NOW
- MOBILE WEB
- MEDIA GALLERY
- SETTINGS
- UTILITIES
- CAMERA

PHONE BOOK

Stores up to 300 entries, each of which can be assigned to a group. Entries can be retrieved by name, phone number or group.

FIND

Retrieves an entry by name and number, and calls by simply pressing . You can review all the entries stored in your phone book list or find an entry quickly by using enter a name or its character string.

- 1 Press [MENU] .
- 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 All matching entries will be displayed. Highlight an entry. Press [OK] to edit the entry. Press [MENU] to 1. Send Text Msg, 2. Send Pix Msg, 3. Prefix or 4. Erase.
 - If the entry is set to secret, you will be asked for your password.Please refer to page 101 or page 102 for more details on "New Text Msg" & "New Pix Msg".
- 5 To call the selected number, press .

PHONE BOOK

ADD NEW

Adds a new entry.

- 1 To add a new entry to the phone book, press [MENU] .
- 2 To enter a name or number, use the Navigation Key to select the phone book field.

PHONE BOOK FIELD :

Name/Group/Mobile/Home/Office/Pager/Fax/E-Mail/
Wireless Addr./Ringer/Msg.Ringer/Graphic/Memo/
Set Secret.

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

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

GROUP

Allows you to classify phone entries into groups. Existing groups include Personal, Business, Etc. and All. A maximum of seven groups is allowed.

ADD NEW GROUP

- 1 To add a new group, press [MENU] . A maximum of seven groups is allowed.
- 2 Press [MENU] to select "Add Group".
- 3 Input a new group name.
- 4 Press [OK] to save it.

PHONE BOOK

CHANGE GROUP NAME

- 1 Press [MENU] .
- 2 Select an existing group name that you have added with the navigation key.
- 3 Press [MENU] to select "Rename".
- 4 Input a new group name.
- 5 Press [OK] to save it.



The default group names (All, Personal, Business, Etc.) cannot be changed.

ERASE GROUP

- 1 Use the Navigation Key to select, then delete the group.
- 2 Press [ERASE] to delete it.
- 3 Press [OK] to erase it.



- The default group names (All, Personal, Business, Etc.) cannot be erased.
- When executing erase group, the saved entries are moved to the Etc. group.

PHONE BOOK

SPEED DIAL

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] .
- 2 To assign a phone number to a location, select the location and press [SET].
 - If a phone number is already assigned to the location, press [ERASE] and [OK] to delete.
- 3 Select the entry with the Navigation key and press [OK].



- "Unassigned" appears if the location is available.
- If a phone number is set as Secret, you will have to enter the password.
- To call an assigned number, press & hold the last digit of the speed dial #.

- 4 "Speed dial # X edited" will be displayed.

PHONE BOOK

MSG. GROUP

Allows the user to group up to 10 phone number. The user can add, change, and delete Msg.Group.

ADD NEW MSG. GROUP

- 1 To add a new group, press [MENU] . A maximum of five groups is allowed.
- 2 Press [MENU] to select "Add Group".
- 3 Input a new group name.
- 4 Press [OK] to save it.

CHANGE MSG. GROUP NAME

- 1 Press [MENU] .
- 2 Select an existing group name with the Navigation Key.
- 3 Press [MENU] to select "Rename".
- 4 Input a new group name.
- 5 Press [OK] to save it.

PHONE BOOK

SEND TEXT MSG. GROUP

- 1 Press [MENU] .
- 2 Select an existing group name with the Navigation Key.
- 3 Press [MENU] to select "Send Text Msg.".
- 4 Input a "Message", "Default CB#", "Priority", and "Insert Signature".
- 5 5.1. To send the text message, press [MENU] and select the "Send" then press [OK].
5.2. To save the text message, press [MENU] and select the "Save to Outbox" then press [OK].

Please refer to page 101 for more details on "New Text Msg".

PHONE BOOK

SEND PIX MSG. GROUP

- 1 Select an existing group name with the Navigation Key.
- 2 Press [MENU] to select "Send Pix Msg.".
- 3 Input a "Message", "Subject", "CC" and "BCC".
- 4 To send the picture message, press [MENU] and select the "Send" then press [OK].
Please refer to page 102 for more details on "New Pix Msg".

ERASE GROUP

- 1 Select an existing group name with the Navigation key.
- 2 Press [ERASE] to delete it.
- 3 Press [OK] to erase it.

MY PHONE

To display your phone number and service provider:

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

RECENT CALLS

In idle mode, you can access recent calls by pressing [MENU] .

ALL CALLS

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

- 1 To see a list of the 20 most recent incoming, outgoing and missed calls, press [MENU] . 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 [OK].



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

- 3 Press [MENU] select "SAVE" to save it or press [ERASE] to delete it.


- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number. It is useful when you add "1" during long distance call. You may save it in the phone book after Prefix.
- Send Text Msg: To send a text message the phone number.
- Send Photo Msg: To send a photo message the phone number.
- Erase All: To erase all recent calls list.







After the 20 received, dialed or missed call, the oldest call will automatically be erased from the history.

RECENT CALLS

MISSED CALLS



Displays information about the 20 most recently missed calls.
Place a call to a missed call number by simply pressing .

1 To see a list of the 20 most recently missed calls, press  [MENU]  . 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  [OK].



Call details include date, time and phone number.

3 Press  [MENU] select "SAVE" to save it or press  [ERASE] to delete it.


- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number. It is useful when you add "1" during long distance call. You may save it in the phone book after Prefix.
- Send Text Msg: To send a text message the phone number.
- Send Photo Msg: To send a photo message the phone number.
- Erase All: To erase all missed calls list.







After 20 missed calls, the oldest call will automatically be erased from the history.

RECENT CALLS

RECEIVED CALLS



Displays information about the 20 most recently answered calls.
Place a call to a received call by simply pressing .

1 To see a list of the 20 most recently answered calls, press  [MENU]  . 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  [OK].



Call details include date, time and phone number.

3 Press  [MENU] select "SAVE" to save it or press  [ERASE] to delete it.


- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number. It is useful when you add "1" during long distance call. You may save it in the phone book after Prefix.
- Send Text Msg: To send a text message the phone number.
- Send Photo Msg: To send a photo message the phone number.
- Erase All: To erase all received calls list.







After 20 received calls, the oldest call will automatically be erased from the history.


RECENT CALLS



DIALED CALLS

Displays information about the 20 most recently dialed numbers. Place a call to a dialed call by simply pressing .


1 To see a list of the 20 most recently dialed numbers, press  [MENU]   .
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  [OK].

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

3 Press  [MENU] select "SAVE" to save it or press  [ERASE] to delete it.

- Save: To store the phone number in your phone book.
- Prefix: The user may add the desired number before the number. It is useful when you add "1" during long distance call. You may save it in the phone book after Prefix.
- Send Text Msg: To send a text message the phone number.
- Send Photo Msg: To send a photo message the phone number.
- Erase All: To erase all dialed calls list.

 *After 20 dialed calls, the oldest call will automatically be erased from the history.*

RECENT CALLS

CALL TIMERS

Checks the talk time and manages your calls within the limit you set. The five timers include:

LAST CALL

Displays talk time of last call.

1 Press  [MENU]    .

2 To return to the previous page, press  [OK].

ALL CALLS

Displays talk time of all incoming and outgoing calls, excluding web access calls.

1 Press  [MENU]    .

2 To view the time of the following items:

- Voice Call
- Data/Fax Call

3 To return to the previous page, press  [OK].



HOME CALLS

Displays talk time of all calls made within Home area.

1 Press  [MENU]    .

2 To view the time of the following items:

- Voice Call
- Data/Fax Call

3 To reset the timer, press  [RESET].
To return to the previous page, press  [OK].

RECENT CALLS

ROAM CALLS

Displays talk time of roaming calls.

- 1 Press [MENU] .
- 2 To view the time of the following items:
 - Voice Call
 - Data/Fax Call
- 3 To reset the timer, press [RESET].
To return to the previous page, press [OK].

CUMULATIVE CALLS

Displays talk time of all incoming and outgoing calls, excluding web access calls.

- 1 Press [MENU] .
- 2 To view the time of the following items:
 - Voice Call
 - Data/Fax Call
- 3 To reset the timer, press [RESET].
To return to the previous page, press [OK].

RECENT CALLS

1X PACKET COUNTER

Checks the log of all kilobyte data transmissions.

RECEIVED

To show the received kilobyte usage on a user definable interval.

- 1 Press [MENU] .
- 2 To reset the counter, press [RESET].
To return to the previous page, press [OK].

TRANSMITTED

To show the transmitted kilobyte usage on a user definable interval.

- 1 Press [MENU] .
- 2 To reset the counter, press [RESET].
To return to the previous page, press [OK].

TOTAL

To show the received or transmitted kilobyte usage on a user definable interval.

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

GET IT NOW

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

START GET IT NOW

- 1 To launch "Get It Now" from the standby mode, press [MENU] or .
- 2 When three or more icons appear on the screen, select an application with Navigation key.
- 3 To start the application, press **OK**.
- 4 To end the application, press .
The phone will return to the standby mode.

DOWNLOADING APPLICATIONS

- 1 Press [MENU] or .
- 2 Select "Get It Now" with Navigation key and press **OK**.
- 3 Select "Start" with Navigation key and press **OK**.
- 4 The phone will access your service provider's server.
Follow the prompt to download applications.

- To select an option, press then press **OK**.
- When a prompt appears, press **OK** to proceed or to cancel.

DOWNLOADING MELODIES/WALLPAPERS

Before downloading melody ringers and wallpapers, you need to download the dedicated downloader.
Please contact your service provider for details.

GET IT NOW

APPLYING MELODIES/WALLPAPERS

Downloaded melody ringers apply to several functions including the incoming call alert, new text message alert, alarm clock and scheduler alarm.

Downloaded wallpapers apply to the standby mode.

CHECKING DATA FOLDER MEMORY

Downloaded melody ringers, wallpapers and applications are saved to the data folder in your phone.

- 1 Press [MENU] or .
- 2 Select "Get It Now" with Navigation key and press **OK**.
- 3 Select "Options" with Navigation key and press **OK**.
- 4 Select "Information" with Navigation key and press **OK**. The memory status will be displayed.
- 5 To exit, press .

ERASING AN APPLICATION

- 1 Press [MENU] or .
- 2 Select "Get It Now" with Navigation key and press **OK**.
- 3 Select "Options" with Navigation key and press **OK**.
- 4 Select the application to be erased with Navigation key and press **OK**.
- 5 Select "Remove" then press **OK**.

MOBILE WEB

CONNECT WEB

You can use your phone to browse the Internet if you have obtained phone Internet service from your service provider and if over-the-air Internet access is available in your area.

- 1 Press [MENU] or .
- 2 Follow the procedures for "Chapter 7 WEB BROWSING" on page 119.

MEDIA GALLERY

IMAGES

GRAPHICS

This menu shows the list of download still image.

- 1 Press [MENU] .
 - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
- 2 Scroll through the captured pictures to display the picture you want to send and press [SEND].
- 3 To write your picture message, see "New Pix Msg" on page 102.
- 4 4.1 To send the pix message, press [MENU] then select "Send" and press [OK].
4.2 To save the pix message, press [MENU] then select "Save to Outbox" and press [OK].

ANIMATIONS

This menu shows the list of downloaded/add as to image.

- 1 Press [MENU] .
 - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
- 2 Scroll through the captured pictures to display the picture you want to send and press [SEND].
- 3 To write your picture message, see "New Pix Msg" on page 102.
- 4 4.1 To send the pix message, press [MENU] then select "Send" and press [OK].
4.2 To save the pix message, press [MENU] then select "Save to Outbox" and press [OK].

MEDIA GALLERY

PIX

This menu shows the list of photos that have been taken with the camera.

1 Press [MENU] .

• Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.

2 Scroll through the captured pictures to display the picture you want to send and press [SEND].

3 To write your picture message, see "New Pix Msg" on page 102.

4.1 To send the pix message, press [MENU] then select "Send" and press [OK].

4.2 To save the pix message, press [MENU] then select "Save to Outbox" and press [OK].

TONES

This menu shows the list of downloaded ringtones.

1 Press [MENU] .

2 Scroll to the saved voice memo you want to send then press [SEND].

3 To write your picture message, see "New Pix Msg" on page 102.

4.1 To send the pix message, press [MENU] then select "Send" and press [OK].

4.2 To save the pix message, press [MENU] then select "Save to Outbox" and press [OK].

SETTINGS

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

SOUNDS

Sets Ringer Type, Volume, Alert, Roam Ringer, Tone Length and Etiquette.

RINGER TYPE

To select a ringer type for incoming calls:

RINGER

1 Press [MENU] .

2 Select your desired ringer type.

- Left or Right key : Select "Ring Tones", "Music Bells" or "Downloads."
- Up or Down key : Select "Ringer."
- Downloads : Downloaded ringer types and familiar music.

3 Select one of the available ring types.
To confirm, press [SELECT].

MESSAGES

To select a ringer type for receiving messages:

1 Press [MENU] .

2 Press the Navigation key up or down to select "Tone 1, 2, 3, 4, 5".

3 To confirm, press [SELECT].

VOICE MAIL

To select a ringer type for receiving voice mail:

1 Press [MENU] .

2 Press the Navigation key up or down to select "Tone 1, 2, 3, 4, 5".

3 To confirm, press [SELECT].

SETTINGS

VOLUME

Controls the Ringer, Key tone, Voice Call and Speaker Phone volume.

RINGER

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

- 1 Press [MENU] .
- 2 Select one of the following options by pressing the Navigation key to the right.
 - Silent : Mute the ringer, press (Min).
 - Ringer Off
 - Vibrate On
 - Ringer Mode : Up & Down (Level 1-5)
 - High & Vib : The ringer sounds after vibration, press (Max).
- 3 To confirm, press [OK].

KEY TONE

To adjust key pad tone:

- 1 Press [MENU] .
- 2 Adjust the key pad tone with the Navigation key.
 - Off (Min-)
 - Level 1 - 5 (level 5, Max-)
- 3 To save, press [OK].

VOICE CALL

To adjust earpiece volume:

- 1 Press [MENU] .
- 2 Adjust the earpiece volume with the Navigation key.
 - Level 1 - 5 (Min- , Max-)
- 3 To save, press [OK].

SETTINGS

SPEAKER PHONE

To adjust speaker phone volume:

- 1 Press [MENU] .
- 2 Adjusts the speaker phone volume using the navigation key.
 - Level 1 - 5 (Min- Max-)
- 3 To save, press [OK].

ALERT

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

MINUTE

Sounds an alert every minute during a call.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation key and press [OK] to save it.

ROAM

Sounds an alert when leaving a service area and entering a roaming service area.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation key and press [OK] to save it.

CONNECT

Notifies you that a call has been successfully placed.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation key and press [OK] to save it.

SETTINGS

FADE

Sounds an alert when entering an area where calls cannot be made due to weak signal strength.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation key and press [OK] to save it.

ON/OFF TONES

Allows you to activate/deactivate the power on/off tones.

- 1 Press [MENU] .
- 2 Select "Off" or "On" with the Navigation key and press [OK] to save it.

ROAM RINGER

Sounds a different ringer when you are in a roaming service area.

- 1 Press [MENU] .
 - 2 Select "Distinctive" or "Normal" with the Navigation key and press [OK] to save it.
- Normal : Sounds the same ringer type as used in Home area.
 - Distinctive : Sounds a different ringer type.

tone LENGTH

To adjust tone length:

- 1 Press [MENU] .
- 2 Select "Normal" or "Long" with the Navigation key and press [OK] to save it.

SETTINGS

ETIQUETTE

To place the phone in Etiquette Mode so all phone sounds are muted:

- 1 Press [MENU] .
 - 2 Select "On" or "Off" with the Navigation key. and press [OK] to save it.
- On : Etiquette Mode on.
 - Off : Etiquette Mode off.




SETTINGS

DISPLAY

Allows you to customize display.

MENU STYLE




To select a display menu style:

- 1 Press  [MENU] .
- 2 Select "Fold", "Grid" or "List" with the Navigation key and press  [OK] to save it.




GRAPHICS

To select an LCD display:

WALLPAPER




- 1 Press  [MENU] .
- 2 Select Default to choose a pre-installed display, Downloads or Pix # to choose a display you have downloaded to your phone.
- 3 Select a display from the Animation and the Graphic list using the navigation key and press  [SELECT] to save it.

POWER ON




- 1 Press  [MENU] .
- 2 Select Default to choose a pre-installed display, Downloads to choose a display you have downloaded to your phone.
- 3 Select a display from the Animation and the Graphic list using the navigation key and press  [SELECT] to save it.

SETTINGS




POWER OFF

- 1 Press  [MENU] .
- 2 Select Default to choose a pre-installed display, Downloads to choose a display you have downloaded to your phone.
- 3 Select a display from the Animation and the Graphic list using the navigation key and press  [SELECT] to save it.

RECEIVED

- 1 Press  [MENU] .
- 2 Select Default to choose a pre-installed display, Downloads or Pix # to choose a display you have downloaded to your phone.
- 3 Select a display from the Animation list using the navigation key and press  [SELECT] to save it.

DIALED


- 1 Press  [MENU] .
- 2 Select "Default" with the Navigation key.
- 3 Select a display from the Animation list using the navigation key and press  [SELECT] to save it.

SCREEN SAVER

Set the time of Screen Saver and select the images, then the Image will be displayed on LCD.

1 Press  [MENU] .

2 Select "Time Setting" or "Screen Saver" with the Navigation key.

- Time Setting : Off, 5 Secs, 10 Secs, 20 Secs, 30 Secs.
- Screen Saver : Select picture image.(Pix/Multimedia/Images).
By pressing  [MENU], the user can choose from the following:
 1. **Erase:** To erase pictures saved in the current album.
 2. **Erase All:** To erase all pictures saved in the current album.
 3. **Change Title:** To edit the title of a picture file.

3 To save, press  [SELECT].


GREETING MESSAGE

To input a personal greeting:

1 Press  [MENU] .

2 The msg field will be highlighted. Press the Navi.Key left or right to choose between on and off. Press the Navi.Key left or right to choose a font. Press the Navi.Key down to move to the next field, color. Press the Navi.Key down to move to the next field, font. Press the Navi.Key left or right to choose a color. Repeat for both field. Press the Navi.Key down to entry message. Enter your greeting.

- Msg : On/Off.
- Font : White, Blue, Dark blue, Magenta, Gray, Black.
- Bg : Transparent, White, Blue, Yellow, Gray, Black.
- Entry Message : Enter message (Default-VERIZON).

3 To save, press  [SAVE].

CONTRAST


To adjust the display contrast:

MAIN LCD/SUB LCD

1 Press  [MENU] .

2 Select "Main LCD" or "Sub LCD" and select one of the following options with the Navigation key.

- Main LCD : Level 1-5.
- Sub LCD : Level 1-5.

3 To save, press  [OK].

SETTINGS

BACKLIGHT

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

LCD/KEY PAD/DIMMING

- 1 Press [MENU] .
- 2 Select "LCD", "Key Pad" or "Dimming" and select one of the following options with the Navigation key.
 - LCD : 5 Secs/15 Secs/30 Secs/60 Secs/Always On.
 - Key Pad : 5 Secs/15 Secs/30 Secs/60 Secs/Always On/Always Off.
 - Dimming : On/Off.
- 3 To save, press [OK].

SETTINGS

DATA SVC.

CONNECTION

Choose the connection mode for the usage of your phone.

- 1 Press [MENU] .
- 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 Press [OK] to save.

This function is available only when the phone is connected to data cable.

SETTINGS

SECURITY

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

PHONE LOCK

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

- 1 Press [MENU] and enter "Password".



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

- 2 Press and select "Lock Now", "Lock On Power Up" or "Unlock".

- Lock Now : Lock the phone now.
- Lock On Power Up : Not locked, but it is automatically locked when power is recycled.
- Unlock : Do not lock the phone.

- 3 To save, press [OK].

RESTRICT

When you attempt to make a restricted call, "This phone is restricted" appears on the screen.

DIALED

Blocks all dialed calls – except emergency calls – but allows an incoming call to be placed.

- 1 Press [MENU] and enter "Password".

- 2 Press and select "Allow" or "Restrict" with the Navigation key.

- Allow : Allows a dialed call.
- Restrict : Restricts a dialed call.

- 3 To save, press [OK].

SETTINGS

RECENT CALLS

Blocks access to Recent Call List.

- 1 Press [MENU] and enter "Password".

- 2 Press and select "Allow" or "Restrict" with the Navigation key.

- Allow : Allows a recent call.
- Restrict : Restricts a recent call.

- 3 To save, press [OK].

CAMERA

Restricts access to camera mode.

- 1 Press [MENU] and enter "Password".

- 2 Press and select "Allow" or "Restrict" with the Navigation key.

- Allow : Allows access to the camera.
- Restrict : Restricts access to the camera.

- 3 To save, press [OK].

DATA CALL

Restrict a data call from being placed.

- 1 Press [MENU] and enter "Password".

- 2 Press and select "Allow" or "Restrict" with the Navigation key.

- Allow : Allows a data call.
- Restrict : Restricts a data call.

- 3 To save, press [OK].

SETTINGS

900#S

Restricts calling 900 dial service numbers.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allows calls to a 900-dial service.
 - Restrict : Restricts calls to a 900-dial service.
- 3 To save, press [OK].

LONG DISTANCE

Restricts calling long distance numbers – the phone is limited to calling numbers within the area.

- 1 Press [MENU] and enter "Password".
- 2 Press and select "Allow" or "Restrict" with the Navigation key.
 - Allow : Allow a long distance call.
 - Restrict : Restrict a long distance call.
- 3 To save, press [OK].

SETTINGS

CHANGE CODE

Changes your 4-digit password

- 1 Press [MENU] and enter "Password".
- 2 Press .
- 3 Enter a new password and press [OK].
- 4 Enter the new password again and press [OK].

SPECIAL #'S

Stores 3 phone numbers that can be called even in the lock mode.

- 1 Press [MENU] and enter "Password".
- 2 Press and select a location with the Navigation key.
- 3 Press [SET] and input a phone number, press [OK] again to save.

SETTINGS

ERASE ALL

Clears all phone book, downloads, and photo gallery entries the box for between check and phonebook.

- 1 Press [MENU] and enter "Password".
- 2 Press .
- 3 Press to check "Phonebook", "Downloads" or "Pix Gallery" and press [OK] to erase all the items in those categories.

RESET PHONE

Resets phone to default settings.

- 1 Press [MENU] and enter "Password".
 - 2 Press .
 - 3 Select "Yes" or "No" with the Navigation key. Press [OK].
- When you select "Yes" and [OK], you will see "Phone will restore default settings and power-cycle" on the display.
- 4 To reset the phone, press [OK].

SETTINGS

OTHERS

ANSWER OPTIONS

CALL ANSWER

To select an answer mode:

- 1 Press [MENU] .
- 2 Select "Any Key" or "Send Key" with the Navigation key.

- Any Key : Press any key to answer an incoming call except and .
- Send Key : Press only to answer a call.

- 3 To save, press [OK].

ACTIVE FLIP

To select active flip answer mode.

- 1 Press [MENU] .
- 2 Select "On" or "Off" with the Navigation key.
- 3 To save, press [OK].

- When Active Flip On is selected, an incoming phone call can be answered simply by opening the phone.
- When Active Flip Off is selected, you will need to open the phone and follow the Answer mode you have selected.

SETTINGS

AUTO ANSWER

Automatically answers a call after a preset amount of time. Auto Answer only works when the phone is open.

- 1 Press [MENU] .
- 2 Select one of the following with the Navigation key.

● Off/5 Secs/10 Secs/18 Secs.



This function will not be active when you select Vibrate, Silent, Etiquette or Ringer after Vib as a ringer mode.

- 3 To save, press [OK].

AUTO RETRY

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

- 1 Press [MENU] .
- 2 Retry time to field is shown. Press the Navi.Key left or right to choose the amount of time off, 3secs, 5secs, 7secs and 10secs.
- 3 When a time is chosen for retry time, the repeat field is shown. Press the Navi.Key down to highlight the repeat field. Press the Navi.Key left or right to choose the amount of repeats. (1 time, 3 times or 5 times).

- 4 To save, press [OK].

SETTINGS

LANGUAGE

Selects the language in which letters are displayed on screen.

- 1 Press [MENU] .
- 2 Select either "English" or "Spanish" with the Navigation key.
- 3 To save, press [OK].

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

- 1 Press [MENU] .
- 2 Select "Standard" or "Enhanced" with the Navigation key.
- 3 To save, press [OK].

● "Enhanced" : Makes it more difficult to wire tap.

SETTINGS

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 [MENU] .
- 2 Select one of the following options (TTY Off / TTY+TALK / TTY+HEAR / TTY Full) with the Navigation key and press [OK].

LOCATION

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

- 1 Press [MENU] .
- 2 Select "911 Only" or "Location On" with the Navigation key.
 - 911 Only : Your location will be hidden from network & application except 911.
 - Location On : Your location is now available to the network.
- 3 To save, press [OK].

SETTINGS

SYSTEM

SET MODE

Selects the Preferred System.

- 1 Press [MENU] .
- 2 Select one of the following options (Automatic B / Automatic A / Home only) with the Navigation key and press [OK].

- Automatic B : Scan the radio channels based on the Automatic B setting.
- Automatic A : Scan the radio channels based on the Automatic A setting.
- Home only : Only within your home area or home affiliated area.

SETTINGS

NAM SETTING

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 [MENU] .
- 2 Select "Yes" or "No" then, press [OK] to save it.

CHANGE NAM

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

- 1 Press [MENU] .
- 2 Select "NAM1-VERIZON" or "NAM2-VERIZON" then press [OK] to save it.

PRL ID

Displays the phone's PRL (Preferred Roaming List).

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

SETTINGS

PHONE INFO.

Displays the version of your phone:

S/W VERSION

- 1 Press [MENU] .
- 2 The software version appears.
- 3 Press [OK].

H/W VERSION

- 1 Press [MENU] .
- 2 The hardware version appears.
- 3 Press [OK].

GET IT NOW VERSION

- 1 Press [MENU] .
- 2 The "Get It Now" software version appears.
- 3 Press [OK].

EVENT

Sets an event and reminds you of that event.

ADD NEW PLAN

- 1 Press [MENU] .
- 2 Move the Navigation key left, right, up or down to choose a date in the calendar and press [OK].
- 3 The date field is highlighted. Press the navigation key down to set the alarm options.

DATE SETTING

Use the keypad to change or enter the date then press [OK].

TIME SETTING

Use the keypad to set a time and to select "AM" or "PM" then press [OK].

PLAN SETTING

Use the keypad to input a plan message then press [OK].

SETTING

Select an alert time interval option (On Time, 10 Min Before, 30 Min Before, 1 Hour Before, No Alarm) by pressing the navigation key left or right.

RINGER SETTING

To set a Ringer, press [MENU], then select "Default" or "Change" using the Navigation key. To save it press [SELECT].

- Default : To set default ringer type.
- Change : Choose a ringer type from the list.

- 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

- 1 To view the Event List, press [MENU] .
- 2 Move the Navigation key to choose an event and press [OK] or [ERASE]. Press [MENU], then select "Erase All" using the Navigation key, "Erase all plans?" Will happen. Press [OK] to delete.

ALARM

You can set up to 3 alarms.

- 1 To display alarm entries, press [MENU] .
- 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.

SETTING

Use the Navigation key to select a setting for the alarm (Once, Daily, Weekly, Monthly, Off).

DATE SETTING

Use the keypad to change or enter the date for the alarm then press [OK].

If weekly is chosen for setting, date field becomes a day if the week field.

- Once: To enter the date filed.
- Daily: Don't editing filed
- Weekly: To select "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday", "Sunday".
- Monthly: To select 1-31.
- Off

TIME SETTING

Use the keypad to set a time for the event and the to select "AM" or "PM" then press [OK].

SNOOZE SETTING

Use the Navigation key to select a Snooze setting (Off, 1 time after 5 min, 1 time after 10 min, 3 times by 5 min).

RINGER SETTING

To set a "Ringer" press [MENU], then select "Default" or "Change" using the Navigation key. To save it press [SELECT] to save it.

- Default : To set default ringer type.
- Change : To set custom to choose a ringer type from the list.

PLAN SETTING

Using the keypad, input an alarm message then press [OK].

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

MEMO PAD

Your phone includes an internal memo pad 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] .
- 2 Input a new text memo.
(Please refer to page 31 for more details on entering letters, numbers & symbols.)
- 3 Press [OK] to save memo.

VIEW MEMO

To view a saved memo:

- 1
 - 1.1. Press [MENU] .
 - 1.2. To erase a memo, press [ERASE].
 - 1.3. To add a new memo, press [MENU] "New Memo".
 - 1.4. To erase all memos, press [MENU] "Erase All".
- 2 The list of all memos, in saved order, is displayed. Select a memo and press [OK].
- 3 The selected memo will appear. To edit it, press [MENU], select "Edit" and input a new text memo, then press [OK] to save edit memo.

SETTINGS

To select memo pad background image:

- 1 Press [MENU] .
- 2 Select (Paper/Pattern/Sea/Sky/Flower) by pressing navigation key left or right and press [OK].

CALCULATOR

To access the calculator:

- 1 Press [MENU] .
- 2 Follow the instructions below to calculate $(8*6)/4-2.5$

Input 8.
Move the Navigation key rightward.
Input 6 and press the Navigation key.
Move it leftward.
Input 4 and press the Navigation key.
Move it downward.
Input 2 and press the input (.).
Press 5, .



- 3 To reset, press [RESET].

WORLD CLOCK

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

- 1 Press [MENU] .
- 2 Select a city with the Navigation key.
- 3 The world map appears with the city, its date and time.

• Use the Navigation key to select another city.

NOTE As the daylight saving time is not applied, it may be different from the actual time during DST.

- 4 To return to the previous page, press [OK].

STOP WATCH

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

- 1 Press [MENU] .
- 2 To measure a time period.
 1. To start the stop watch, press [START].
 2. To pause it, press [STOP].
 3. To resume it or [RESET] to return to the previous page, press [EXIT].
- 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].

TAKE PIX

Taking pictures with your phone's built-in camera is as simple as choosing a subject, pointing the lens, and pressing a button. You can activate the Camera Mode and take pictures when the phone is open.

TAKING A PICTURE THROUGH THE MENU

- 1 Press [MENU] , or press the side camera button.
- 2 Point the camera lens at your subject. You can check the picture framing through the main display screen.
- 3 Press [OK], or the side camera button to take the picture.
- 4 The picture is automatically saved. Press [MENU] (1. Edit title, 2. Wall paper, 3. Screen saver, 4. Pix caller ID, 5. Take new picture, 6. Thumbnail, 7. Erase) to send the picture to someone, press [SEND].

- You cannot place or receive calls while in Camera Mode. All incoming voice calls will be forwarded to voicemail.

TAKING A PICTURE IN IDLE MODE

- 1 Press the Side Camera button to activate Camera Mode.
- 2 Point the camera lens at your subject. You can check the picture framing through the main display screen.
- 3 Press the side camera button to take the picture.
- 4 To save the picture, press [SAVE] then input a picture title and press [OK]. To go back to idle mode without saving the picture, press . To send the picture to someone, press [OK].

CAMERA MODE OPTIONS

When the phone is open and in Camera Mode, several user options are available.

GALLERY

Press [GALLERY] to enter Review Mode. From there you can view the captured pictures, view a running count of stored pictures and more.

RESOLUTION

Press the navigation key up or down to adjust the picture size from High (640x480 pixels) to Med (320x240 pixels) to Low (160x120 pixels). The current picture size appears at the bottom of the display screen.

ZOOM

Press the navigation key left or right to change the magnification. (Zoom to 1x, 2x or 4x magnification.)

UNDER [MENU]**SUB LCD**

The sub LCD will show a representation of the picture to be taken. Use the sub LCD to help frame yourself for a self portrait.

FLASH

To activate the flash function. (Off / On this shot / Always On)

SELF TIMER

To activate the camera's timer function. (Off / 5 Secs / 10 Secs)

ADD FRAMES

To select your favorite fun picture frame to decorate your picture. (Off / Angel Heart / Birthday / Bohemian / Bubble Bath / Celebration / Circular Eyes / Coffee / Cupid / Enamored / Enlargement / Female / Flower Frame / Flower Mirror / Frog / Funny Lips / Gentleman / Gift / Ice Cream / Koala / Love Frame / Love Heart / Love Tree / Magic Santa clause / Male / My Christmas / Noon Window / Postage Stamp / Princess Frame / Red Man / Rose Grove / Santa clause / Seashore / Sexy Lips / Sexy Woman / Sunflower / Sunglasses / Tree Frame / White Christmas / White Window / Winter Frame)

IMAGE CONTROLS

To select an option from the following. (Brightness / Image Effect / Contrast / Quality)

SHUTTER SOUND

To select a shutter sound. (Off / Shutter 1 / Shutter 2 / Shutter 3 / Say "Cheese")

CAMERA

PIX GALLERY

Your phone enters Review Mode after taking a picture.

- 1 Press [MENU] .
- 2 Press [OK] to select a picture.

- 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.
- Press [MENU] to display the following options :
 1. **Thumbnail** : To switch the display from full-screen to thumbnail view.
 2. **Edit Title** : Edit the picture's title.
 3. **Send Pix Msg** : Upload the picture to a message.
 4. **Assign Pix** : Assigns the selected pix to display for specific tasks (Wallpaper/Screen Saver/Pix Caller ID/Incoming Call).
 5. **Erase** : Erase the current picture from your phone.
 6. **View Lists** : Displays all pictures.
 7. **Pix Information** : Display information on the selected picture, such as title, date/time, size, etc.
- Press [CAM] to return to Camera mode to take another picture.

PIX MESSAGE

Once you've taken a picture, you can use the messaging capabilities of your phone to instantly share it with family and friends. To send a picture to a recipient's email address or to their wireless phone:

- 1 Press [MENU] .
- 2 Press for "New Pix" or for a "Saved Pix". If you are looking for a saved photo, scroll through the captured pictures to select the picture you want to send.
- 3 Highlight the picture and press [OK].

CAMERA

- 4 Under "Send To", enter the email address or mobile phone number and press [OK].
- 5 Under "Message", press . The picture will come up with the flashing cursor underneath. Enter the message and press [OK]. Press [MENU] to 1. Voice Record, 2. Insert Q.Text, 3. Delete Pix, 4. Insert Sound, 5. Insert Slide or 6. Slide Duration.
- 6 Under "Subject", enter a subject line for the message. Press [OK].
- 7 If you want to send the picture to any additional recipients, enter their information under "CC" or "BCC". Press [MENU] to 1. Find, 2. Save or 3. Msg. Group.
- 8 To send the picture, press [SEND]. Press [MENU] to 1. Send, 2. Preview, 3. Save to Outbox, 4. Priority or 5. Expiration.

Please refer to page 102 for more details on "New Pix Msg".

CAMERA

HELP

1 Press  [MENU]  .

- Use up/down keys to change pix size, left/right keys to change zoom and Side up/down keys control rotation on preview mode.

Camera menu provides more settings:

1. SUB LCD: Enable previewing on external LCD.
2. Flash: Provides just enough light to allow pictures to be taken.
3. Self Timer: Set timer to take a self portrait.
4. Add Frames: Choose from 40 different frames to make picture taking fun.
5. IMAGE CONTROLS
 - 5.1 BRIGHTNESS
 - 5.2 IMAGE EFFECT
 - 5.3 CONTRAST
 - 5.4 QUALITY
6. Shutter Sound: Select a sound to use for shutter.

Chapter 5


VOICE SERVICE

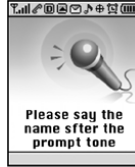
This chapter addresses Voice Service, an advanced feature that allows you to place calls using your voice. With Voice Memo (VM) you can record voice messages and set the Answering Machine. Topics include:

- VOICE RECOGNITION MODE
- VOICE TOOLS MENU


VOICE RECOGNITION MODE

Voice Recognition (VR) enables you to place calls using your voice and to record voice memos.

- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 "Please say the name after the prompt tone" will be displayed and you will hear "Name please".























NAME

- 1 Press and hold  until your phone turns to Voice Recognition mode.
- 2 Say a tag name when prompted. The member and name will appear on the display and you will hear "Calling (name)".

VOICE TOOLS MENU

VOICE MEMO

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

- 1 Press  [MENU]  to start Tools menu.
- 2 To enter a voice memo, press  .
 - 1.1. To record a voice memo, press  . Instructions will be displayed and you will hear "Please record at the tone."
 - 1.2. To stop recording a memo, press  [STOP] or  [PAUSE/RESUME].
 - 1.3. Press  [MENU] after recording a voice memo to "Review" or "Re-record."
 - 1.4. Press  [SAVE] to input a "Voice Memo" title, then press  [OK]. (See page 31 for more information on entering letters, numbers and symbols.)
 - 1.5. Press  [SEND] to access the "New Pix Msg" see "New Pix Msg" on page 102.
 2. To play voice memo, press  . Select the message you want to play then press  [PLAY] or press  [MENU] to
 1. Edit Title or 2. Send. Press  [ERASE] to erase the menu.
 3. To play speaker mode, press  . Select the message you want to play then press  [PLAY] or press  [MENU] to
 1. Edit Title or 2. Send. Press  [ERASE] to erase the menu.
 4. To erase all voice memos, press  . "Erase all voice memos?" will be displayed. Press  [OK] to erase all voice memos.

VOICE TOOLS MENU

VOICE DIAL

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

- 1 Press [MENU] to start Voice Tools menu.
- 2 To enter a voice dial, press .
- 3 1.1. To record a voice dial, press .
The phone book list will be displayed alphabetically. Select a name and press [OK]. Instructions will be displayed and you will hear "Name Please".
1.2. Say the name for the voice tag and repeat the name when prompted. You will hear "Added".
2. To play a voice dial, press .
Highlight the message you want to play then press [PLAY] or press [ERASE].
3. To play speaker mode, press .
Highlight the message you want to play then press [PLAY] or press [ERASE].
4. To erase all voice dials, press .
"Removing all voice tags Proceed?" will be displayed.
Press [OK] to erase all voice dials.

VOICE TOOLS MENU

TRAIN WORDS

Train allows you to use Control words to make a call without using the keypad.

YES

Use to train or untrain the Voice Recognition with the control words, "Yes".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word yes".
- 3 Say "Yes". You will hear "Again". Say "Yes" again. You will hear "Training word successful".

NO





Use to train or untrain the Voice Recognition with the control words, "No".

- 1 Press [MENU] .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word no".
- 3 Say "No". You will hear "Again". Say "No" again. You will hear "Training word successful".

VOICE TOOLS MENU






WAKE-UP

Use to train or untrain the Voice Recognition with the control words, "Wake-Up".

- 1 Press  [MENU]   .
- 2 "Please listen closely to hear instructions" will be displayed and you will hear "Now training control words. Please say the word Wake-Up".
- 3 Say "Wake-Up". You will hear "Again". Say "Wake-Up" again. You will hear "Training word successful".

UNDO TRAIN ALL

Undo Train All erases all "trained" words.





- 1 Press  [MENU]   .
- 2 "Undo voice recognition for all procedures?" will be displayed. Press  [OK] to undo all trained words.

VOICE TOOLS MENU

VOICE SETTING





SET ACTIVE

Allows the user to activate or deactivate voice dial service.

- 1 Press  [MENU]  .
- 2 Select "Active Flip" or "Send Key" by pressing the Navigation Key left or right.
- 3 To save, press  [OK].

HFK MODE

While using the Hands Free Kit, activates or deactivates the voice recognition function.

- 1 Press  [MENU]  .
- 2 Scroll to HFK Mode. Select "On" or "Off" by pressing the Navigation Key left or right.
- 3 To save, press  [OK].

Chapter 6

VOICE MAIL AND TEXT MESSAGE

This chapter addresses Voice Mail and Text Messaging functions including:

- WHEN A NEW MESSAGE ARRIVES
- VOICE MAIL
- NEW TEXT MSG
- NEW PIX MSG
- INBOX
- OUTBOX
- WEB ALERTS
- SAVED
- QUICK TEXT
- ERASE ALL
- SETTINGS

WHEN A NEW MESSAGE ARRIVES

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



- 2 To display the message, press [READ].

VOICE MAIL

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

- 1 To access your voice mail, press [MENU] or .

NEW TEXT MSG

To send a new message:

- 1 Press [MENU] or .
- 2 Under "Send To", input the phone number and press [OK].

- By pressing [MENU], you can choose from the following:
 1. **Find** : Search the phone number which is stored in the phone book.
 2. **Save** : Stores the phone number the message was sent to.
 3. **Msg. Group** : Select, all the phone numbers in a group.

- 3 Under "Message", input a new text message and press [OK].

(Please refer to page 31 for more details on entering letters, numbers and symbols.)

- By pressing [MENU], in the message input screen you can choose from the following:
 1. **Insert Quick Text**: Insert Quick Text function brings the saved already sentences.
 2. **Insert Sound**: Insert Sound function inserts sound in Text Msg.
 3. **Insert Picture**: Insert Picture function inserts picture in Text Msg.
 4. **Insert Animation**: Insert Animation function inserts Animation in Text Msg.
 5. **Save to Quick Text**: Save to Quick Text function saves the written sentences on Quick Text.

- 4 The default call back number is automatically inputted into the Default CB# field. You can scroll to the number and edit it or simply press [EDIT].

- 5 Press the Navigation Key down for more fields. Under "Priority", select "Normal" or "Urgent".

- 6 Under "Insert Signature", select "On" or "Off".

- 7 7.1. To send the text message, press [MENU] and select the "Send" then press [OK].

- 7.2. To save the text message, press [MENU] and select the "Save to Outbox" then press [OK].

NEW PIX MSG

To send a new picture message:

- 1 Press [MENU] or .
- 2 Phone goes into camera mode automatically. Take a picture and press [OK].
(Please refer to page 86 for more details on taking a photo.)
- 3 Under "Send To", input the phone number and press [OK].

- By pressing [MENU], the user can choose from the following:
 1. **Find** : Allows the user to search the phone number which is stored in the phone book.
 2. **Save** : Stores the phone number the message was sent to.
 3. **Msg. Group** : Allows to select all the phone numbers in a group.
 4. **Online Album** : To send pictures by using online Address Book.

- 4 Under "Message", input a new text message and press [OK].

- By pressing [MENU], the user can choose from the following:
 1. **Take Pix** : To take a new photo.
 2. **Voice Record** : To record a voice memo.
 3. **Insert Q.Text** : Insert Quick Text function brings the saved already sentences.
 4. **Insert/Delete Pix** : To Insert/delete a taked picture.
 5. **Insert/Delete Sound** : To Insert/delete a sound in Pix Msg.
 6. **Insert/Delete Slide** : To Insert/delete a another picture in Pix Msg.
 7. **Slide Duration** : To select a slide duration time.

- 5 Under "Subject", input a message subject and press [OK].
(Please refer to page 31 for more details on entering letters, numbers and symbols.)

NEW PIX MSG

- 6 To send a message to another person, select the "CC" or "BCC" and input the phone numbers, then press [OK].

- By pressing [MENU], the user can choose from the following:
 1. **Find** : Allows the user to search the phone number which is stored in the phone book.
 2. **Save** : Stores the phone number the message was sent to.
 3. **Msg. Group** : Allows to select all the phone numbers in a group.

- 7.1. To send the picture message, press [MENU] and select the "Send" then press [OK].
- 7.2. To save the picture message, press [MENU] and select "Save to Outbox" then press [OK].

- By pressing [MENU], the user can choose from the following:
 1. **Send** : To send a picture message.
 2. **Preview** : To preview a written picture message.
 3. **Send to Outbox** : To save a message to "Outbox" folder.
 4. **Priority** : To select priority "Normal" or "High"
 5. **Expiration** : To select expiration time "Off", "1 day", "2 days", "3 days", "4 days" or "5 days".

INBOX

The Inbox manages received text messages. To access:

1 Press [MENU] or .

- : Urgent New Msg (not read)
- : Urgent Read Msg
- : New Msg (not read)
- : Old Msg (already read)
- : Lock (already read and locked)

2 Select a message and press [OK].
The message is displayed. To delete a message, press [ERASE].

3 Press [MENU].

*PIX INFO

1 To show pix message information.

*PLAY SLIDE SHOW

1 To play include slide pix message.

REPLY

1 To reply to the text message.

2 Type your reply and press [OK].

INBOX

REPLY WITH COPY

1 To reply to a received message and include the received message into the message.

2 The default call back number is automatically inputted into the Default CB# field.
You can scroll to the number and edit it.

3 Under "Insert Signature", select "On" or "Off".

4 To send the text message, press [SEND].

5 To save the text message, press [MENU] and select the "Save to Outbox" then press [OK].

FORWARD

1 To forward the text 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].

*SAVE MEDIA

1 To object saved to media gallery folder

SAVE TO CONTACT

1 To save number to contact.

INBOX

SAVE TO SAVED

- 1 To save the text message in your phone.


SAVE TO QUICK TEXT

- 1 To save received text msg to "Quick text".

BLOCK SENDER

- 1 To block all incoming messages from addresses on block list.

LOCK & UNLOCK

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






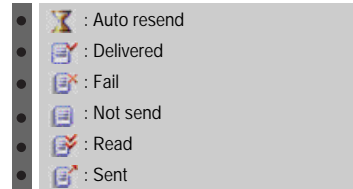
- *"*Pix Info" or "*Play Slide Show" menu display appears when a only pix message.*
- *"*Save Media" menu display appears when a only "Pix" or "EMS" message.*




OUTBOX

Manages sent text messages or messages waiting to be sent.

CHECKING SENT TEXT MESSAGES

- 1 Press  [MENU]   or  .



- 2.1. Select a message, then press  [OK].
The text message is displayed.
- 2.2. To erase message, press  [ERASE].
- 3 Press  [MENU].



*PIX INFO

- 1 To show pix message information.

RESEND

- 1 To resend a text message.

EDIT MESSAGE

- 1 To send a message to another person.
- 2 Input a text message and press .
- 3 Input the phone number and press .

OUTBOX


SAVE TO CONTACT

- 1 To save number to contact.

SAVE TO SAVED

- 1 To save the text message in your phone.

LOCK & UNLOCK

- 1 To lock or unlock the text message.
- 2 Select "Lock" to lock the message or "Unlock" to unlock the message, then press  [OK].

*STATE








- 1 To display the status of an outbox message.






- ***Pix Info* menu display appears when a only pix message.
- ***State* menu display appears when a only text message.

WEB ALERTS

WEB ALERTS

- 1 Press  [MENU]   or  .
- 2 To select GoTo, press  .
To select Erase Message, press .
- 3 The text message will be displayed.

-  : Read Message.
-  : Unread Message.
-  : Displays the remaining text.
- GoTo : Connecting Selected Site.
- Erase : Erase Selected Message.

SAVED

SAVED

Manages saved messages from the Inbox/Outbox.

- 1 Press [MENU] or .
- 2 2.1. Select a text message then press [OK].
The text message is displayed.
2.2. To erase message, press [ERASE].
- 3 Press [MENU].
- 4 If the text message is saved from the "Inbox" menu, this screen will be displayed.

- To select inbox menu : *Pix Info, *Play Slide Show, Reply, Reply With Copy, Forward, Save to Quick Text, *Save Media, Block Sender, Save to Contact, Lock & Unlock

If the text message is saved from the "Outbox" menu, this screen will be displayed.

- To select outbox menu : *Pix Info, Resend, Edit Message, Save to Contact, Lock & Unlock, *State

- 5 Select one by pressing [OK].

NOTE

- *"*Pix Info" or "*Play Slide Show" menu display appears when a only pix message.*
- *"*Save Media" menu display appears when a only "Pix" or "EMS" message.*
- *"*State" menu display appears when a only text message.*

QUICK TEXT

QUICK TEXT

To edit the quick text message you have saved:

- 1 Press [MENU] or .
- 2 2.1. Select a message from the list.
Press [MENU].
2.2. To add a new quick text message, press [ADD NEW]. To edit the quick text message you have selected, press [EDIT].
- 3 To erase the saved quick text message, press [ERASE].

ERASE ALL

ERASE MESSAGES

- 1 Press [MENU] or .
- 2 1. To erase all the inbox messages, press .
 - Old Inbox : To erase all messages already read.
(However, the locked Message(s) will not be deleted).
 - Entire Inbox : To erase all messages.2. To erase all the outbox messages, press .
3. To erase the saved messages, press .
- 3 Select "OK" or "Cancel" with [OK] or [CANCEL].

SETTINGS

Manages messaging features through various features.

AUTO SAVE

SAVE SENT MSG

- 1 Press [MENU] or .
- 2 Press .
Select either "Off", "On" or "Prompt" with the Navigation key.
- 3 Press [OK].

PIX RECEIVE MODE

- 1 Press [MENU] or .
- 2 Press .
Select "Automatic" or "Prompt" with Navigation key.
- 3 Press [OK].

SETTINGS

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

AUTO ERASE INBOX

- 1 Press [MENU] or .
- 2 Press .
Select "Disable" or "Enable" with Navigation key.
- 3 Press [OK].

AUTO ERASE OUTBOX

- 1 Press [MENU] or .
- 2 Press .
- 3 Press [OK].

SETTINGS

DEFAULT CALL BACK

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

- 1 Press [MENU] or .
 - 2 Press .
- Input a call back number, then press [OK].
- You can look it up from the phone book by pressing [FIND].

EDIT VOICE C.B

- 1 Press [MENU] or .
 - 2 Press .
- Input a new voice call back number or edit voice call back number.
- You can look it up from the phone book by pressing [FIND].
- 3 Press [OK].

SETTINGS

ALERT

Send yourself a message to remember important notes or events.

1 Press [MENU] or .

2 Press .
Select "On" or "Off" with the Navigation Key.

3 Press [OK].

EDIT SIGNATURE

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

1 Press [MENU] or .

2 Press .
To input "Signature", put the cursor on Edit Signature and enter Signature Edit window by using right or left direction keys.

3 To activate Signature function, put the cursor on Insert Signature and select "On" by using right or left direction keys. To inactivate Signature function, select "Off".

4 Press [OK].

SETTINGS

DIRECT VIEW

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

1 Press [MENU] or .

2 Then press .
Select "On" or "Off" with the Navigation key.

- ON : Set to read msg without entering inbox in SMS menu.
- OFF : Set to read msg after entering inbox in SMS menu.

3 Press [OK].

ENTRY MODE

Sets an Entry Mode as a default. The T9 mode indicator will appear whenever the input mode is activated if the T9 mode is the default.

1 Press [MENU] or .


2 Then press .
Select "Alpha Mode" or "T9 Mode" with the Navigation key.

3 Press [OK].

SETTINGS

BLOCK OR UNBLOCK

1 Press  [MENU]  or  .

2 Then press  .
Select “Block”, “Unblock” or “View List of Blocked Address” with the Navigation key.

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

3 Press  [OK].

Chapter 7

WEB BROWSING

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

- START INTERNET BROWSER
- BROWSER MENU

START INTERNET BROWSER

ACCESS THE INTERNET

- 1 To start your Internet browser and access websites through your wireless handset press [MENU] or .

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. press [MENU] or press .

HOME

When the home item is selected from the browser menu, the phone displays the home page.

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

BACK

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

FORWARD

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

BROWSER MENU

REFRESH

Selecting the refresh item from the browser menu refresh the current page.

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

HISTORY

When the history item is selected from the browser menu, the browser is displayed with the browser version and copyright information. The device layer version is also displayed.

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

ADDRESS

Selecting the "Address" action displays the URL of the current page.

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

CLEAR MEMORY

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









SETTINGS

- 1 To select "Settings", press [MENU] or , then press .

BROWSER MENU

ADVANCED

Selecting the advanced item in the browser menu displays the advanced menu items.

- 1 To select "Advanced", press  [MENU]    or   , then press .

EXIT

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

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
- 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.

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.

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

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 Audiovox 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 2.5 cm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 2.5 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 1.34 W/Kg and when worn on the body, as described in this user guide, is 0.531W/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 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-170S.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site 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.



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 ef-fects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological ef-fects. Some studies have suggested that some biological ef-fects 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 de-vices. However, the agency has authority to take action if wire-less 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 regula-tory 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 ex-posure 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 expo-sures that people get from these base stations are typically thousands of times lower than those they can get from wire-less phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones.

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF expo-sures 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 wire-less phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, how-ever, 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 develop-ment used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-dis-posed 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 expo-sure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological stud-ies 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 stud-ies can provide data that is directly applicable to human popu-lations, but 10 or more years' follow-up may be needed to pro-vide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a can-cer- causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiologi-cal studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many fac-tors 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 impor-tant questions about the effects of exposure to radiofrequency energy (RF). FDA has been a leading participant in the World Health Orga-nization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world.

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

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from 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.

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 "com-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.gov.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 Audiovox product. Be careful. Some of these products may not be compatible to use with your Audiovox 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-Audiovox 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 Audiovox product.



AUDIOVOX COMMUNICATIONS CORP.

555 Wireless Blvd., Hauppauge, New York 11788, 800-229-1235
16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100
Audiovox Canada

5155 Spectrum Way, Unit #5, Mississauga, Ontario
Canada L4W 5A1, 800-465-9672

12 MONTH LIMITED WARRANTY

Audiovox Communications Corp. (the Company) warrants to the original retail purchaser of this Audiovox 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 : AUDIOVOX COMMUNICATIONS CORP.

555 Wireless Blvd.
Hauppauge, NY 11788
(800) 229-1235

IN CANADA : AUDIOVOX COMMUNICATIONS CANADA CO.

5155 Spectrum Way, Unit #5
Mississauga, Ontario L4W 5A1
(800) 465-9672