WELCOME

Thank you for choosing the up-to-date TX-110C, 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, the 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, Openwave, UP browser)
- GUI & Animation display compliant with CDMA2000 1X.
- Full graphic main display - 65K color.
- Mobile Camera.(VGA 33Frames)
- Navigation key and 25 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-110C 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.

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Chapter 1

BEFORE USING YOUR PHONE

This chapter provides important information about using the TX-110C 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

User Manual

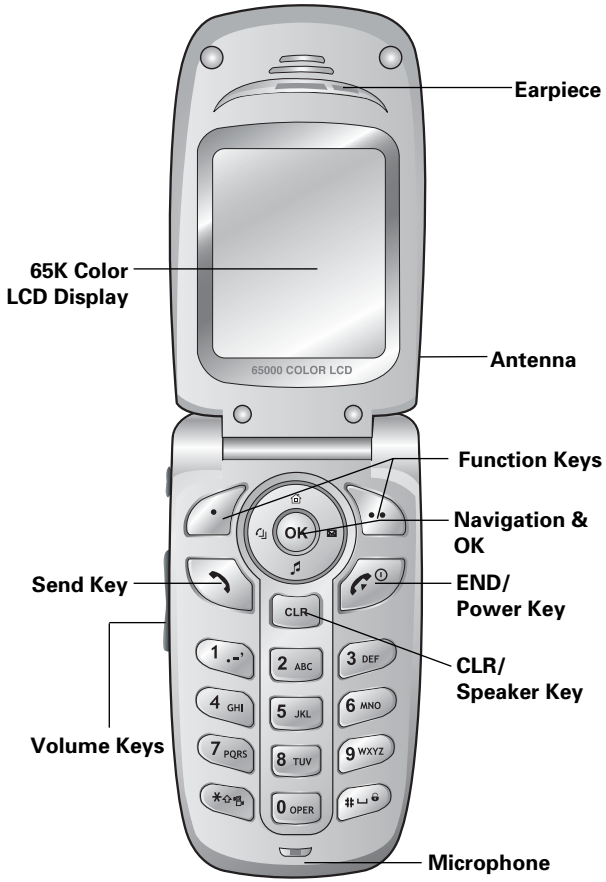
Standard Battery

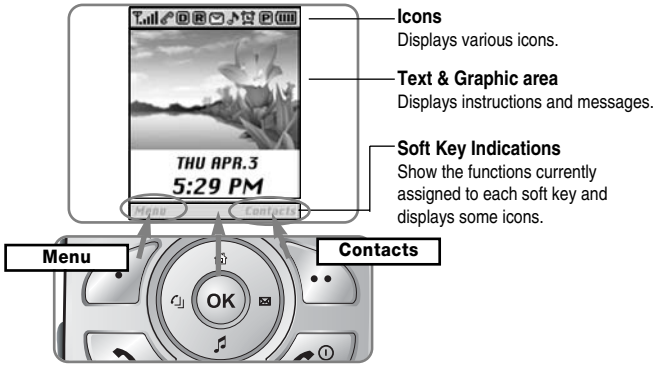
Handstrap

Belt Clip

HANDSET DESCRIPTION

This phone is a tri mode CDMA2000 1X digital phone with Camera and BREW capabilities. The TX-110C weighs 3.89 oz. and the dimensions are 1.82” x 3.56” x 0.92”.





Icons
Displays various icons.

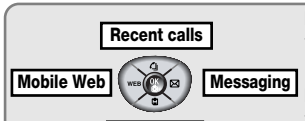
Text & Graphic area
Displays instructions and messages.

Soft Key Indications
Show the functions currently assigned to each soft key and displays some icons.

Menu

Contacts

THE FUNCTION KEYS



In Idle Mode
- Press up to access the Recent Call Logs, down to access BREW, right for Messaging and left for Mobile Web.

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

	Press to make or receive a call. Press and hold to turn on VR mode.
	Press to turn the phone on, to terminate a call or to return to the initial page. Press and hold to turn the phone off.
	(Soft 1) Press to access the menu or function displayed on bottom line.
	(Soft 2) Press to access your phone book.
	Press to access internet service.
	Press to clear a digit from the display, to return to the previous page, or to enable speakerphone mode.
	Press and hold to enter etiquette mode.
	Press and hold to enter lock mode.

DISPLAY INDICATORS

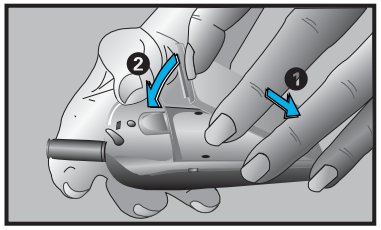
	Signal Strength - Current signal strength - the more lines, the stronger the signal.
	Roaming Phone is out of home area.
	Service Indicator Indicates call is in progress, indicates the phone cannot receive a signal from the system.
	Message New text or voice message.
	Digital mode Phone is operating 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.
	Voice Memo New voice memo has been made.
	Answering machine Phone is in answering machine 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”.
	Fax Only Receives a fax call as a voice call.
	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.

Analog Mode
Phone is operating in analog mode.

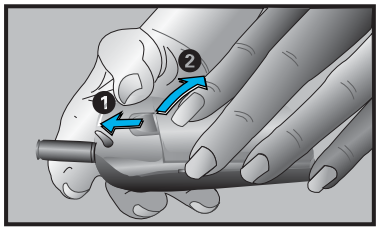
BATTERY INSTALLATION

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



BATTERY REMOVAL

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

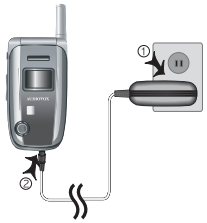


NOTE *If the battery is not correctly placed in the compartment, the handset will not turn on and/or the battery may detach during use.*

BATTERY CHARGING

POWER CONNECTION

1 Plug the AC charger into a standard outlet.



NOTE
- *Fully charge the battery before using – it is not charged when purchased.*
- *It is more efficient to charge the battery with the phone turned off.*

BATTERY TALK TIMES

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

Battery	DCS	PCS	AMPS
STD 900 mAh	190m	200m	80m
EXT 1700 mAh	310m	350m	130m

BATTERY STANDBY TIMES

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

Battery	AMPS	CDMA
STD 900 mAh	20hour	140hour
EXT 1700 mAh	35hour	240hour

NOTE *These times are for a new battery. Talking and Standby times 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 41ºF (5ºC) and 95ºF (35ºC).
- 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.

- *If “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.*

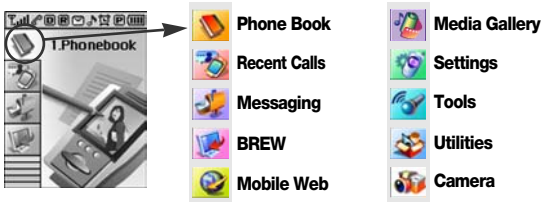
TURNING THE PHONE OFF

1 Press and hold , until “Power Off” logo appears.

- *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, 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 idle mode, press [MENU].

2 Press the Navigation Key up and down to scroll through the menu.

3 To return to the previous page, press [BACK]. To exit the current menu and return to the idle mode, press .

4 Press [OK] to enter a function when its main page is displayed.

Hotkey

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

- *Upward movement: Recent Call Logs*
- *Downward movement: BREW*
- *Rightward movement: Messaging*
- *Leftward movement: Mobile Web*

MENU SUMMARY

1. Phone Book	1. Find	1. By Name	
		2. By Number	
	2. Add New		
	3. Group		
	4. Speed Dial		
	5. Msg. Group		
	6. My Phone #		
2. Recent Calls	1. All Calls		
	2. Missed Calls		
	3. Received Calls		
	4. Dialed Calls		
	5. Call Timers	1. Last Call	
		2. All Calls	
		3. Home Calls	
		4. Roam Calls	
		5. Cumulative Calls	
3. Messaging	1. New Text MSG		
	2. New Photo MSG		
	3. Voice Mail		
	4. Inbox		
	5. Outbox		
	6. Web Alerts		
	7. Saved		
	8. Quick Text		
	9. Erase All	1. Inbox	1. Old Inbox
			2. Entire Inbox
		2. Outbox	
		3. Saved	
	10. Settings	1. Auto Save	1. Save sent MSG
			2. Photo receive
		2. Auto Erase	1. Inbox
			2. Outbox
		3. Default Callback	
		4. Alert	1. Voice Mail
			2. Messages
			3. Remind
		5. Edit Signature	
		6. Direct View	
		7. Entry Mode	
		8. Block or Unblock	1. Block
			2. Unblock
			3. View List of Blocked Address
4. BREW	1. BREW		
5. Mobile Web	1. Connect Web		

MENU SUMMARY

CH 2

6. Media Gallery	1. Images	1. Graphics	
		2. Animations	
	2. Photos		
	3. Tones		
7. Settings	1. Sounds	1. Ringer Type	1. Ringer
			2. Messages
			3. Voice Mail
		2. Volume	1. Ringer
			2. Key Tone
			3. Voice Call
			4: Speaker Phone
		3. Alert	1. Minute
			2. Roam
			3. Connect
			4. Fade
		4. Roam Ringer	
		5. Tone Length	
		6. Etiquette	
	2. Display	1. Menu Style	
		2. Graphics	1. Wallpaper
			2. Power On
			3. Power Off
			4. Received
			5. Dialed
			6. Screen Saver
		3. Sub Screen	
		4. Greeting Message	
		5. Contrast	Main LCD
			Sub LCD
		6. Backlight	LCD
			Keypad
	3. Data Svc.	1. Connection	
	4. Security	1. Phone Lock	
		2. Restrict	1. Dialed
			2. Recent Calls
			3. Phone Book
			4. Camera
			5. Data Call
			6. 900#s
			7. Long Distance
		3. Change Code	
		4. Special #'s	
		5. Erase All	
		6. Reset Phone	
	5. Others	1. Answer Options	1. Call Answer
			2. Active Flip
			3. Auto Answer
		2. Auto Retry	Retry Time
			Repeat
		3. Language	
		4. Voice Privacy	
		5. TTY Mode	
		6. Location	

MENU SUMMARY

	6. System	1. Set Mode	
		2. Nam Setting	1. Auto NAM 2. Change NAM
		3. PRL ID	
	7. Phone Info.	1. S/W Version	
		2. H/W Version	
		3. BREW Version	
8. Tools	1: Voice Memo	1 : Record	
		2 : Play	
		3 : Play Speaker	
		4 : Erase All	
	2: Voice Dial	1 : Record	
		2 : Play	
		3 : Play Speaker	
		4 : Erase All	
	3: Train Words	1 : Yes	
		2 : No	
		3 : Wake-Up	
		4 : Undo Train All	
	4: Voice Setting	1 : Set Active	
		2 : HFK Mode	
9. Utilities	1: Event	1 : Add Plan	
		2 : View Event List	
	2: Alarm	1 : Item 1	
		2 : Item 2	
		3 : Item 3	
	3: Memo Pad	1 : Add Memo	
		2 : View Memo	
		3 : Settings	
	4: Calculator		
	5: World Clock		
	6: Stop Watch		
10. Camera	1: Take a Photo		
	2: Photo Gallery		
	3: Photo Message	1 : New Photo	
		2 : Saved Photo	
	4: Help		

BASIC FUNCTIONS

MAKING A CALL

1 Enter a phone number.

NOTE

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.

NOTE

- *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 69).*
- *If the number you're calling is stored in the phone book, the name and number will appear when the call is placed.*
- *There is another way to make a call through the VR mode, which is called "VAD (Voice Activated Dialing)". Please refer to page 90 (Voice Service) for details on making calls using VAD.*

3 To end a call, press .
Please refer to page 28 for more details about storing a phone number.

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SPEAKER PHONE

1. To activate the speaker phone when the phone is in idle mode, answering mode, and calling mode press and hold .
2. The phone returns to normal (Speaker phone off) after ending or call or when the phone is turned off and back on.

PAUSE FEATURE

You can dial or save a phone number with pauses for use in the automated systems where you need to enter a credit card number, a social security number, and so on. This feature will be convenient when you are linked to ARS (Advanced Record System)

1. To insert a pause, enter a phone number then press [MENU]. Select either a Hard Pause (“P” appears) or a Timed Pause (“T” appears).
2. Press to dial or [STO] to store.

Please refer to page 28 for more details about storing a phone number.

ANSWERING A CALL

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

See page 68 for more information on setting Any Key Answer or Send Key Answer.

2. To end the call, press .

In Auto Answer Mode, a call is automatically answered after a preset number of ring tones. See page 69 for more details.

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. This feature is system dependent. Please contact your service provider for details.

The caller ID is stored in the call history.

CALL WAITING FUNCTION

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

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

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

ADJUSTING VOLUME

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

1. Press [MENU] 7 1 2 and select one of the following.

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

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

NOTE *Press the volume keys on the side of the phone to adjust volume of microphone during a call.*

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 *.

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 then input the password.

- Lock feature will deactivate when the phone is powered off. Upon next power up, you will need to press 5 to lock phone again.

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

To display menu options during a call, press .

MESSAGING

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

1. Press [MENU] 1.

MUTE (UNMUTE)

Mutes any sounds from your side of the call.

1. Press [MENU] 2.

- To deactivate, press [MENU] 2.
- The phone will automatically un-mute in Emergency Call or Callback mode.

SCRATCHPAD

Allows you to enter a phone number during a call so it can be dialed later. The other party cannot hear the key presses.

1. Press [MENU] 3.

- Press [MENU] 3 to deactivate it.

SEND MY PHONE

Automatically transmits your phone number to a pager during a call without manually entering the number.

1. To transmit your phone number during a call, press [MENU] 4.

DURING A CALL

MY PHONE NUMBER

Enables you to see your phone number while on a call.
Please see page 42 for more details.

1 Press [MENU] 5JKL.

VOICE PRIVACY

Enhances voice privacy during a call.

1 Press [MENU] 6MNO.

LOCATION

Enables the network to locate your current location through Global Positioning System (GPS). (Refer to page 71 for more details.)

1 Press [MENU] 7PRS.

PHONE INFO.

Enables you to view handset information while on a call.
Please see page 74 for more details.

1 Press [MENU] 8TUV.

MAKING AN EMERGENCY CALL

This 911 feature puts your 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.

- When the call ends, the phone returns to the Lock Mode.
- The phone continuously attempts to receive service from any available system. However, it can’t make a call.

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MEMO

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 [OK] [SAVE].
2. Choose “New Contact” or “Existing Contact”. Press [OK] to select.
3. The Phone # will appear above 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]. Follow instructions for entering text on page 29. To change the input mode, press [MODE].
   - Group – Personal, Business, Etc.
   - Set Secret – Lock, Unlock.
5. Use the Navigation key to scroll through more options for the entry (group, other numbers, ringer).
   - The other fields are set to Numeric mode as a default.
6. To store the entry, press [OK] [SAVE]. “New contact added!” or “Contact edited!” will be displayed.

ENTERING LETTERS, NUMBERS & SYMBOLS

The input mode 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 lower 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
Abc : Abc mode
T9Word : T9 mode
NUM : Number mode
Symbols : Symbol mode

The following illustrates the function assigned to each key in the input mode.

KEY	*FUNCTION*
Case	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.
Shift	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.

STANDARD INPUT MODE

Use the digit keys to enter letters, numbers and characters.

1 Enter letters using the keypad as follows:

Keypad	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 [MODE].

2 To enter a space, press #. After two seconds, 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 BACK/CLR. To delete the entire entry, press and hold BACK/CLR.

5 To change from lowercase to uppercase, press *.

e.g.

Select Abc mode, by pressing [ ][MODE].
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 [5JKL]	*J*
Press [6MNO 6MNO 6MNO]	*o*
Press [4GHI 4GHI]	*h*
Press [6MNO 6MNO]	*n*

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 with [MODE].

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 0.

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

NOTE

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.*

e.g.

To enter "phone book" in the T9 input mode.

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

- Press [7PRS 4GHI 6MNO 6MNO 3DEF] and you will see "phone" highlighted. Press [0] to see the next matching word and [ ] to select it.

- Press [2ABC 6MNO 6MNO 5JKL] and you will see "book" highlighted. Press [0] to move to the next matching word and [ ] to select the compound word and enter a space.

ENTERING LETTERS, NUMBERS & SYMBOLS

NUMERIC MODE

Allows you to enter numbers.

1. Press [MODE] until the current input mode changes to the "NUM (Numeric mode)".
2. To enter a number, press a digit key.

SYMBOL MODE

Allows you to enter symbols.

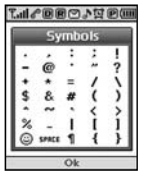
1. Press [MODE] until the "Symbols (Symbol mode)" appears.
2. Select symbol you want to enter with the Navigation key.

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

Press [◀ ▶],

or

Press [▲ ▼],



MAKING A CALL THROUGH THE PHONE BOOK

SPEED DIALING

Dials a number simply by pressing and holding its Speed Dial location number. For a 2-digit location number, press the first number then press and hold the second number. To store a number in Speed Dial:

1. Press [MENU] 1 4.
2. To assign a phone number to a location, select the location and press [OK].

- If a phone number is already assigned to the location, press [Erase] and the navigation key to delete.

3. The phone book list will be displayed alphabetically. Select a name and press [OK].
4. "Speed dial # X edited" will be displayed.

NOTE

- *"Unassigned" appears if the location pressed is available.*
- *A phone number that is set as secret will not be displayed.*
- *A call can be made by pressing its entry number and .*

MEMO

Chapter 4

MENU FUNCTION

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

- PHONE BOOK
- RECENT CALLS
- BREW
- 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 or number, and calls the number by simply pressing .

BY NAME

1. Press [MENU] 1 1 1.
2. The list of names in your phone book is displayed alphabetically.
   Use Navigation key to select the name.
3. Enter a name or its character string or scroll through the list with the Navigation Key.
   Please refer to page 29 for instructions on entering letters, numbers and symbols.

   ● If there is no match, “Cannot Find Name” will appear.
4. All matching entries will be displayed. Highlight an entry. Press [OK] to edit the entry. Press [MENU] to 1. delete the entry or 2. add a prefix.

   ● If the entry is set to secret, you will be asked for your password.
5. To call the selected number, press .

PHONE BOOK

BY NUMBER

1. Press [MENU] 1 1 2.
2. The list of phone numbers saved in your phone book will be displayed in numeric order.
3. Enter a part of the phone number or scroll through the list with the Navigation Key.
   The name associated with that number will be displayed at the bottom of the screen.

   ● If there is no match, “Cannot Find Name” will appear.
4. All matching entries will be displayed. Highlight an entry and press [OK] to edit the entry.
   Press [MENU] to 1. delete the entry or 2. add a prefix.

   ● If the entry is set to secret, you will be asked for your password.
5. To call the selected number, press .

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ADD NEW

Adds a new entry to the phone book. Please refer to page 28 for alternate way to add an entry to the phone book.

1. To add a new entry to the phone book, press [MENU] 1 2.
2. The first field highlighted is Name. Enter the name for the entry, then press [OK].
3. Press the Navigation Key down to enter all the other information (group, phone number, etc.).

   PHONE BOOK FIELD :
   Name/Group/Mobile/Home/Office/Pager/Fax/E-mail/ Wireless Addr./Ringer/Msg.Ringer/Graphic/Memo/ Set Secret.

4. When all information for the entry is entered, press [OK] to save the entry.

GROUP

Allows you to classify phone entries into groups. Existing groups include Personal, Business, Etc. and All.

ADD NEW GROUP

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

CHANGE GROUP NAME

1. Press [MENU] 1 3. Select an existing group name.
2. Press [MENU] then select “Rename”.
3. Input a new group name.
4. Press [OK] to save it.

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

ERASE GROUP

1. Press [MENU] 1 3. Select an existing group name.
2. Press [ERASE] to delete it. “Erase this group?” will be displayed.
3. Press [OK] again to confirm it.

NOTE: The default group names (All, Personal, Business, Etc.) cannot be erased.

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SPEED DIAL

Calls can be placed to numbers stored in speed dial by pressing its location number on the keypad.

1. Press [MENU] 1 4.
2. To assign a phone number to a location, select the location and press [OK].
   - If a phone number is already assigned to the location, press [Erase] and the Navigation Key to delete.
3. The phone book list will be displayed alphabetically. Select a name and press [OK].
4. “Speed dial # X edited” will be displayed.

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] 1 5. A maximum of seven groups is allowed.
2. Press [MENU] 1 to add a group.
3. Input a new group name.
4. Press [OK] to save it.

CHANGE MSG. GROUP NAME

1. Press [MENU] 1 5. Highlight an existing group name.
2. Press [MENU] 2 to rename the group.
3. Input a new group name.
4. Press [OK] to save it.

SEND MSG. GROUP

1. Press [MENU] 1 5. Highlight an existing group name.
2. Press [MENU] 3 to send a message.
3. Input a message and phone number.
4. Press [OK] to send it.

ERASE GROUP

1. Press [MENU] 1 5. Highlight the group name to be deleted.
2. Press [ERASE] to delete it. “Erase this message group?” will be displayed.
3. Press [OK]. “This message group erased” will be displayed.

PHONE BOOK

MY PHONE

To display your phone number and service provider:

1. Press [MENU] [1] [6].
2. To return to the previous page, press [OK].

RECENT CALLS

Access the recent call logs by pressing [MENU] [2].

ALL CALLS

Displays information about the 20 most recent numbers dialed, missed and received. Places a call to a selected number by simply pressing [SEND].

1. To see a list of the 20 most recent numbers, press [MENU] [2] [1].
   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 call details, press [OK].

NOTE *Call details include date, time, and phone number.*

3. Press [MENU] [1] [SAVE] to save the number or press [ERASE] to delete it.

NOTE *After 20 incoming, outgoing or missed calls, the oldest call will automatically be erased from the history.*

MISSED CALLS

Displays information of 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] 2 2.
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] 1 [SAVE] to save the number or press [ERASE] to delete it.

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

RECEIVED CALLS

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

1 To see a list of the 20 most recently answered calls, press [MENU] 2 3.
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] 1 [SAVE] to save the number or press [ERASE] to delete it.

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

DIALED CALLS

Displays information of the 20 most recently dialed calls.
Place a call to a received number by simply pressing .

1. To see a list of the 20 most recently answered calls, press [MENU] 2 4.
   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 outgoing call details, press [OK].

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

3. Press [MENU] [SAVE] to save the number or press [ERASE] to delete it.

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

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 5 1 .
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 5 2.
2. The time of the following items is displayed:
   - 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 5 3 .
2. The time of the following items is displayed:
   - 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 5 4.
2. The time of the following items is displayed:
   - 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 5 5.
2. The time of the following items is displayed:
   - Voice Call
   - Data/Fax Call
3. To reset the timer, press [RESET].
   To return to the previous page, press [OK].

BREW

Your phone provides a unique feature “BREW” 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 BREW

1. To launch “BREW” from the standby mode, press 4 or press .
2. The “BREW” application icons will appear.
   The shopping cart icon is “BREW”, the checkmark is for Settings, and the question mark is for Help.
3. Choose an application, then press [OK].

DOWNLOADING APPLICATIONS

1. Press 4 or press .
2. Select “BREW” then press [OK].
3. Select a folder in the catalog then press [OK].
4. The phone will access your service provider’s server. Follow the prompt to download applications.

   - To select an option, highlight it then press [OK].
     When a prompt appears, press [OK] to proceed or [MENU] 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.

APPLYING MELODIES/WALLPAPERS

Downloaded melody ringers apply to several functions including the incoming call alert, new text message alert, alarm clock and scheduler alarm.
See Ringer Type on page 54.

Downloaded wallpapers apply to the standby mode.
See Wallpaper on page 58.

CHECKING DATA FOLDER MEMORY

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

1. Press [MENU] or press [▼].
2. Select “Settings” then press [OK].
3. Select “Manage Apps” then press [OK].
   The memory status will be displayed.
4. To exit, press [END].

ERASING AN APPLICATION

1. Press [MENU] or press [▼].
2. Select “Settings” then press [OK].
3. Select “Manage Apps” then press [OK].
   The memory status will be displayed.
4. Select the application to be erased then press [OK].
5. Select “Remove” then press [OK].

CONNECT WEB

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

1. Press [MENU] [5 JKL] or [1 .,?] or [◄].
2. Follow the procedures in “Chapter 7 WEB BROWSING” on page 111.

IMAGES

GRAPHICS

1. Press [MENU] 6mno 1 1.
   - 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 access the “New Photo Msg” editor, see “New Photo Msg” on page 98.
4. 4.1 To send text message, press [SEND].
   4.2 To save text message, press [MENU] then select “Save to Outbox” and press [OK].

ANIMATIONS

1. Press [MENU] 6mno 1 2abc.
   - 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 access the “New Photo Msg” editor, see “New Photo Msg” on page 98.
4. 4.1 To send text message, press [SEND].
   4.2 To save text message, press [MENU] then select “Save to Outbox” and press [OK].

PHOTOS

1. Press [MENU] 6mno 2abc.
   - 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 access the “New Photo Msg” editor, see “New Photo Msg” on page 98.
4. 4.1 To send text message, press [SEND].
   4.2 To save text message, press [MENU] then select “Save to Outbox” and press [OK].

TONES

1. Press [MENU] 6mno 3def.
   - Press [MENU] to select 1.Erase, 2.Erase All, 3.Change Title.
2. Scroll the saved voice memo you want to send then press [SEND].
3. To access the “New Photo Msg” editor, see “New Photo Msg” on page 98.
4. 4.1 To send text message, press [SEND].
   4.2 To save text message, press [MENU] then select the “Save to Outbox” and press [OK].

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

SOUNDS

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

RINGER TYPE

To select a ringer type for incoming calls:

RINGER

1. Press [MENU] 7PQRS 1 1 1.
2. Select one of the 10 pre-installed ringers.
3. To confirm, press [OK].

MESSAGES

1. Press [MENU] 7PQRS 1 1 2ABC.
2. Select a tone (1-5).
3. To confirm, press [OK].

VOICE MAIL

1. Press [MENU] 7PQRS 1 1 3DEF.
2. Select a tone (1-5).
3. To confirm, press [OK].

SETTINGS

VOLUME

Controls the Ringer, Key and Voice Call volume and alerts you to incoming calls in a variety of modes.

RINGER

Controls the Ringer volume and alerts you to incoming calls in the following modes.

1. Press [MENU] 7PQRS 1 2ABC 1.
2. Select one of the following options:
   - Silent – Mute the ringer, press (Min).
   - Ringer Off
   - Vibrate On
   - Ringer Mode – Volume Levels 1-5.
   - High & Vib – The ringer sounds after vibration, press (Max).
3. To confirm, press [OK].

KEY TONE

To adjust keypad tone:

1. Press [MENU] 7PQRS 1 2ABC 2ABC.
2. Adjust the keypad tone.
   - Off/Level1-5 (Min- , Max-)
3. To save, press [OK].

VOICE CALL

To adjust earpiece volume:

1. Press [MENU] 7PQRS 1 2ABC 3DEF.
2. Adjust the earpiece volume.
   - Level1-5 (Min- , Max-)
3. To save, press [OK].

SPEAKER PHONE

To adjust speaker volume:

1. Press [MENU] 7 1 2 4.
2. Adjusts the speaker phone volume using the Navigation Key.
   - Level1-5 (Min- , Max-)
3. To save, press [OK].

ALERT

Allows you to set an alert that sounds when the following handset changes occur.

MINUTE

Sounds an alert every minute of a phone call.

1. Press [MENU] 7 1 3 1.
2. Select “Off” or “On” and press [OK] to save it.

ROAM

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

1. Press [MENU] 7 1 3 2.
2. Select “Off” or “On” and press [OK] to save it.

CONNECT

Notifies you that a call has been successfully placed.

1. Press [MENU] 7 1 3 3.
2. Select “Off” or “On” and press [OK] to save it.

FADE

Sounds an alert when you are entering an area where calls cannot be made due to weak signal strength. The alert sounds in standby mode.

1. Press [MENU] 7 1 3 4.
2. Select “Off” or “On” and press [OK] to save it.

ROAM RINGER

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

1. Press [MENU] 7 1 4.
2. Select “Distinctive” or “Normal” 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] 7 1 5.
2. Select “Normal” or “Long” and press [OK] to save it.

ETIQUETTE

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

1. Press [MENU] 7 1 6.
2. Select “On” or “Off” and press [OK] to save it.
   - Shortcut – Press and hold to activate/deactivate this feature.

DISPLAY

Allows you to customize the display.

MENU STYLE

To select an display menu style:

1. Press [MENU] 7PQRS 2ABC 1.
2. Select “Fold”, “Grid” or “List” and press [OK] to save it.

Fold

Grid

List

GRAPHICS

To select an LCD display:

WALLPAPER

1. Press [MENU] 7PQRS 2ABC 2ABC 1.
2. Select “Flower”, “Digital Clock1,2”, “Analog Clock 1,2”, or “Picture (Photo #)”.
3. Press [OK] to save it.

POWER ON

1. Press [MENU] 7PQRS 2ABC 2ABC 2ABC.
2. Select “Audiovox” with the Navigation key.
3. Select a display from the Animation list using the navigation key and press [SELECT] to save it.

POWER OFF

1. Press [MENU] 7PQRS 2ABC 2ABC 3DEF.
2. Select “Audiovox” with the Navigation key.
3. Select a display from the Animation list using the navigation key and press [SELECT] to save it.

RECEIVED

1. Press [MENU] 7PQRS 2ABC 2ABC 4GHI.
2. Select “Default” or “Picture (Photo #)” with the Navigation key.
3. Select a display from the Animation list using the navigation key and press [SELECT] to save it.

DIALED

1. Press [MENU] 7PQRS 2ABC 2ABC 5JKL.
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.

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SCREEN SAVER

1. Press [MENU] 7PQRS 2ABC 2ABC 6MNO.
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.(Photo/Multimedia/Images).
3. Press [SELECT] to save it.

SUB SCREEN

1. Press [MENU] 7PQRS 2ABC 3DEF.
2. Select “Digital” or “Analog”.
3. Press [OK] to save it.

GREETING MESSAGE

To input a personal greeting:

1. Press [MENU] 7PQRS 2ABC 4GHI.
2. Select “MSG”, “Font Color”, “Bg” or “Entry Message” to personalize your greeting. Press [OK].
   - MSG: On/Off.
   - Font Color: White, Blue, Dark Blue, Magenta, Gray, Black.
   - Bg: Transparent, White, Blue, Yellow, Gray, Black.
   - Entry Message: Enter message (Default-AUDIOVOX).
3. To save, press [OK].

CONTRAST

To adjust the display contrast:

MAIN LCD/SUB LCD

1. Press [MENU] 7PQRS 2ABC 5JKL.
2. Select “Main LCD” or “Sub LCD”.
   - Main LCD: Level 1~5.
   - Sub LCD: Level 1~5.
3. To save, press [OK].

BACKLIGHT

Backlights the display and keypad for easy viewing in dark places.

LCD/KEYPAD

1. Press [MENU] 7PQRS 2ABC 6MNO.
2. Select “LCD” or “Keypad”.
   - LCD: 5s/15s/30s/60s/Always On.
   - Keypad: 5s/15s/30s/60s/Always On/Always Off.
3. To save, press [OK].

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DATA SVC.

Allows you to transfer data when your phone is connected to a PC.

CONNECTION

Select a connection mode based on the handset usage.

1. Press [MENU] 7 3 1.

2. Select one of the following connection modes:

- Voice Call: To receive a voice call.
- Data Only: To receive data when connected to PC.
- Fax Only: To function as a fax when connected to PC.

3. Press [OK] to save.

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

SECURITY

Prevents others from using the phone without permission and allows access to security features only after inputting a password.

PHONE LOCK

Prevents others from using your phone without permission. When locked, calls cannot be made and the menu cannot be accessed without password.

1. Press [MENU] 7 4 and enter “Password”.

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

2. Press 1. and select “Lock Now”, “Lock On Power Up” or “Unlock”.

- Lock Now: Lock the phone now.
- Lock On Power Up: Lock the phone whenever it is turned on.
- 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 incoming calls to be answered.

1. Press [MENU] 7 4 and enter “Password”.

2. Press 2 1. and select “Allow” or “Restrict”.

- Allow: Allows dialed calls.
- Restrict: Restricts dialed calls.

3. To save, press [OK].

RECENT CALLS

Blocks access to Recent Call List.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 2ABC and select “Allow” or “Restrict”.
   - Allow: Allows access to the recent calls menu.
   - Restrict: Restricts access to the recent calls menu.
3. To save, press [OK].

PHONE BOOK

Blocks access to, and protects data in your phone book.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 3DEF and select “Allow” or “Restrict”.
   - Allow: Allows access to the phone book.
   - Restrict: Restricts access to the phone book.
3. To save, press [OK].

CAMERA

Restricts access to camera mode.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 4GHI and select “Allow” or “Restrict”.
   - Allow: Allows access to the camera.
   - Restrict: Restricts access to the camera.
3. To save, press [OK].

DATA CALL

Restricts data calls from being placed.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 5JKL and select “Allow” or “Restrict”.
   - Allow: Allows data calls.
   - Restrict: Restricts data calls.
3. To save, press [OK].

900 #’S

Restricts calling 900 dial service numbers.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 6MNO and select “Allow” or “Restrict”.
   - Allow: Allows calls to 900-dial services.
   - Restrict: Restricts calls to 900-dial services.
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] 7PQRS 4GHI and enter “Password”.
2. Press 2ABC 7PQRS and select “Allow” or “Restrict”.
   - Allow: Allows a long distance call.
   - Restrict: Restricts a long distance call.
3. To save, press [OK].

CHANGE CODE

Changes your 4-digit password

1. Press [MENU] 7PQRS 4GHI and enter “Password”.

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

2. Press 3DEF.
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] 7PQRS 4GHI and enter “Password”.

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

2. Press 4GHI and select a location.
3. Press [OK] and input a phone number, press [OK] again to save.

NOTE *You can delete a special number by selecting it, pressing [Erase], then [OK].*

ERASE ALL

Clears all phone book, downloads, and photo gallery entries.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.

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

2. Press 5JKL.
3. Select “Phone Book”, “Downloads” or “Photo Gallery” and press [OK] to erase all the items in those categories.

RESET PHONE

Resets phone to default settings.

1. Press [MENU] 7PQRS 4GHI and enter “Password”.

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

2. Press 6MNO.
3. Select “Yes” or “No”, then press [OK].

When you select “yes” you will see “Phone will restore default settings and power cycle appear on the display.
Press [OK] to begin Reset process.

4. To reset the phone, press [OK].

OTHERS

ANSWER OPTIONS

CALL ANSWER

To select an answer mode:

1. Press [MENU] 7 5 1 1.
2. Select “Any Key” or “Send 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

Selects an Active Flip Answer mode as follows.

1. Press [MENU] 7 5 1 2.
2. Select “On” or “Off”.
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.

AUTO ANSWER

Automatically answers a call after a preset number of rings. An ideal setting for the hands-free car kit. Auto Answer only works when the phone is open.

1. Press [MENU] 7 5 1 3.
2. Select one of the following:

- Off / 5 / 10 / 18 Seconds.

NOTE *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 redial a call up to 5 times after a set time interval.

1. Press [MENU] 7 5 2.
2. Under Retry Time, select a time interval option (Off, 3, 5, 7, 10 seconds). The Repeat Category will appear when a time frame is chosen.
3. Under Repeat, select a time interval option (1 time, 3 times, 5 times).
4. To save, press [OK].

LANGUAGE

Selects the language in which letters are displayed on screen.

1. Press [MENU] 7PQRS 5JKL 3DEF.
2. Select either “English” or “Spanish”.
3. To save, press [OK].

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

1. Press [MENU] 7PQRS 5JKL 4GHI.
2. Select “Standard” or “Enhanced”.
3. To save, press [OK].

- “Enhanced”: Makes it more difficult to wire tap.

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] 7PQRS 5JKL 5JKL.
2. Select one of the following options then press [OK].

- TTY Off
- TTY+TALK
- TTY+HEAR
- TTY Full

LOCATION

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

1. Press [MENU] 7PQRS 5JKL 6MNO.
2. Select “Location On” or “911 Only”.

- Location On: Your location is now available to the network.
- 911 Only: Your location will be hidden from network & application except 911.

3. To save, press [OK].

SYSTEM

SET MODE

Selects the Preferred System.

1. Press [MENU] 7PQRS 6MNO 1.
2. Select one of the following options: Automatic B, Automatic A, Home only. 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.

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] 7PQRS 6MNO 2ABC 1.
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] 7PQRS 6MNO 2ABC 2ABC.
2. Select “NAM1-AUDIOVOX” or “NAM2-AUDIOVOX”, then press [OK] to save it.

PRL ID

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

1. Press [MENU] 7PQRS 6MNO 3DEF.
2. To return to the previous page, press [OK].

PHONE INFO.

To display the version of your phone:

S/W VERSION

1. Press [MENU] 7pqrs 7pqrs 1.
2. The software version appears.
3. Press [OK].

H/W VERSION

1. Press [MENU] 7pqrs 7pqrs 2abc.
2. The hardware version appears.
3. Press [OK].

BREW VERSION

1. Press [MENU] 7pqrs 7pqrs 3def.
2. The Brew software version appears.
3. Press [OK].

EVENT

Sets an event and reminds you of that event.

ADD PLAN

1. Press [MENU] 9wxyz 1. 1.
2. Move the Navigation key to choose a date in the calendar and press [OK].

   Date, Time and Plan fields are displayed. The date you chose from the calendar is automatically inputted into the Date field. Input the correct time for the event. Under Plan, enter the message for the event. Press the Navigation Key down to display Setting and Ringer fields. Under Setting, select when you want to be alerted of the event. Under Ringer, choose the ringer for the event. To change the default ringer, press [MENU] 2abc "Change". When all fields are completed, press [SAVE].

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

VIEW EVENT LIST

1. Press [MENU] 9wxyz 1. 2abc.

ALARM

You can set up to 3 alarms.

1. To display alarm entries, press [MENU] 9WXYZ 2ABC.

2. Select one of the entries. To set a new alarm, choose item 1, 2 or 3.
To edit an existing alarm, select that alarm.
Press [OK].

   - To delete the existing one, press C.

3. Date, Time and Setting fields are displayed. Enter the date using the keypad. Press [OK]. Under Time, enter the time for the alarm, then press [OK]. Under Setting, choose Daily, Weekly, Monthly, Off or Once. Press the Navigation Key down for more fields. Under Snooze Setting, choose from Off, 1 time after 5 min, 1 time after 10 min, 3 time by 5 min. Under Ringer, choose the ringer for the alarm. Under Plan, enter the message for the alarm. Press [OK] to 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] 9WXYZ 3DEF 1.@.

2. Input a new text memo and press [OK].
(Please refer to page 29 for more details on entering letters, numbers and symbols.)

VIEW MEMO

To view a saved memo:

1. Press [MENU] 9WXYZ 3DEF 2ABC. To erase all memos, press [MENU] 2ABC "Erase All". To add a new memo, press [MENU] 1.@ "Add New".

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.

SETTINGS

To select memo pad background image:

1. Press [MENU] 9WXYZ 3DEF 3DEF.

2. Select "Paper", "Pattern", "Sea", "Sky", or "Flower", then press [OK].

CALCULATOR

To access the calculator:

1. Press [MENU] 9wxyz 4ghi.
2. Follow the instructions below to calculate (8*6)/4-2.5

   Input 8.
   Move the Navigation key to the right.
   Input 6 and press the Navigation key to the left.
   Input 4 and press the Navigation key down.
   Input 2 and press the *+ to input (.).
   Press 5, OK.
3. To reset, press [RESET].

WORLD CLOCK

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

1. Press [MENU] 9wxyz 5jkl.
2. Select a city.
3. The world map appears with the city, its date and time.

   • Use the Navigation key to select another city.

STOPWATCH

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

1. Press [MENU] 9wxyz 6mno.
2. To measure a time period.
   1. To start the stopwatch, press OK.
   2. To pause it, press OK.
   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 OK.
   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, press OK. To review the results, press [VIEW].
   6. To return to the stopwatch, press OK [OK].
   7. To reset it, press [RESET].

TAKE A PHOTO

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 FROM THE MENU

1. Press [MENU] 0 1 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. To save the picture, press [SAVE]. To go back to idle mode without saving the picture, press . 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]. To go back to idle mode without saving the picture, press . To send the picture to someone, press [SEND].

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.

BRIGHTNESS

Press the navigation key right (increase) or left (decrease) for the brightness level.

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. You can also use the round mirror next to the camera lens for self portraits.

FLASH/FLASH OFF

Select Flash to turn the camera's flash on or off.

- Do not use the flash close to eyes as it may cause visual impairment.

CONTRAST

Select Hi, Normal, Low.

QUALITY

Select High, Normal, Low picture quality, then fewer pictures can be stored when using the High setting, which requires more memory. (Default setting is Normal.)

SHUTTER SOUND

Select Shutter 1, Shutter 2, or Shutter 3. If your phone's ringer is set to Silence, no shutter sound will be heard.

- After taking a picture, all options except Shutter Sound return to their default settings.

PHOTO GALLERY

1 Press [MENU] 0 2.

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

  Press [MENU] to display the following options :

  1. Edit Title: Edit the picture's title.
  2. Send Phone: Upload the current picture to the send message.
  3. Assign Picture: To assign the selected picture to display for specific tasks (Wallpaper/Screen Saver/Picture Caller ID/Incoming Call).
  4. Erase: Erase the current picture from your phone.
  5. Erase All: Erase all captured pictures from your phone.
  6. View Lists: Display pictures title name.
  7. Photo Info: Display information on the selected picture, such as title, date/time, size, etc.

PHOTO 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] 0 3.

2 Press 1 for new photo and 2 for a saved photo. If you are looking for a saved photo, scroll through the captured pictures to display the picture you want to send.

3 Highlight the picture and press [OK].

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].

CAMERA

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:".

HELP

1 Press [MENU] 0 4.
The following will be displayed:

- Use up/down keys to change photo size and left/right keys to change brightness.
  Camera menu provides more settings:
  1. Sub LCD: Enable previewing on external LCD.
  2. Flash: Turn on/off flashing if attached.
  3. Contrast: Set photo contrast.
  4. Quality: Set photo quality.
  Higher quality generates bigger size photo.
  5. Shutter Sound: Select a sound to use for shutter.

FLASH (SOLD SEPARATELY)

TO USE THE FLASH KIT

1. Remove the protective cap.

   - Hold the flash unit securely between thumb and pointer finger. With other hand, place thumb over plastic protective cap and press downward. (similar to if you were breaking in half, see figure 1).

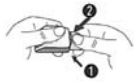
2. Open the earphone microphone terminal cap to expose the port.

3. Insert the flash into the earphone microphone port. The front of the flash should be facing the object of photography.

4. Set up the flash on the camera menu. (See page 81. When in camera mode, press [MENU], then flash.)

5. Press camera button. The flash will light when the picture is taken.

Install the protective cap. The protective cap has securing feet on either side. Place (1) securing foot in one end of groove then press other foot (2) upwards into groove.



You should be at least 2 feet (about 60cm) away from object of photography to ensure proper lighting. If you are too close the picture will come out white.

To prevent and protect the user, others and their property, carefully read the following hints for safely using the flash.

HINTS FOR USING FLASH

- Use the flash at room temperature. It may not light or charge in temperatures under 5°C or above 35°C.
- Do not use in a damp area.
- Use in a high or low temperature area may cause the flash life to shorten or extend the charging time.
- Clean the plug with a cotton stick. Dust in the plug may cause irregular charging.
- If the flash repeats to radiate, the intensity of the radiation will shorten and the images will become darker. If the intensity of radiation decreases, buy another flash.
- Remove the terminal of the flash from the ear phone jack during a call. It may cause some noise while using phone.
- Do not use while driving a car. It may cause a car accident.
- Do not flash near your eyes.
- Do not leave out in the reach of children. They may receive an electric shock by putting it in their mouths.
- If internal parts are exposed, do not touch the exposed parts. You may receive an electric shock.
- If it generates heat, smells bad, or is damaged, remove it from the phone immediately. There is a risk of fire or explosion.
- Do not disassemble, reconstruct or repair. The flash contains a high voltage circuit inside. Visit a nearby service center for repair.
- Do not use or put the flash near fire, open flame or high temperature area. There is a risk of fire or explosion.
- Do not wet it by sweat, water or salt water. If the substrate gets wet, it may cause the heat, explosion or firing. When it wets, turn off the power and visit near service center.
- Do not allow any liquids to spill on the flash or expose it to rain, water or moisture. Do not place it in the damp area like bathroom.
- Do not heat or dry it with drier if it gets wet.
- Do not place a cup or vase near it. Spilling liquid on it may cause the heat, explosion or firing.
- Do not drop or shock it.
- Do not allow any metal objects to touch the flash's plug (metal part). There is a risk of fire or explosion.
- Use only with the TX-110C phone.

MEMO

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 SERVICE 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 name or tag that is already in the phone book. The number and name will appear on the display and you will hear "Calling (name)".

VOICE SERVICE 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] 8 to start Tools menu.
2. To enter a voice memo, press 1.
3. 1.To record a voice memo, press 1. Instructions will be displayed and you will hear "Please record at the tone."

   1.2. To stop recording a memo, press [STOP] or [PAUSE].

   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 . (See page 29 for more information on entering letters, numbers and symbols.)

   2.To play voice memos, press 2. Highlight the message you want to play then press [PLAY] or press [ERASE].

   3.To play voice memos in speaker mode, press 3. Highlight the message you want to play then press [PLAY] or press [ERASE].

   4.To erase all voice memos, press 4. "Erase all voice memos" will be displayed. Press to erase all voice memos.
4. To stop recording a memo, press .

NOTE *To pause or resume, press . To stop, press .*

5. After recording a voice memo you can "Review" or "Re-record".

VOICE DIAL

1. Press [MENU] 8 to start Voice Tools menu.
2. To enter Voice Dial, press 2.
3. 1.To record a voice dial tag, press 1.
   Instructions will be displayed and you will hear “Name please”.

   2.To view and play voice tags, press 2.

   3.To play voice tags in speaker mode, press 3.

   4.To erase all voice tags, press 4.

VOICE SERVICE 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] 8 3 1.
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] 8 3 2.
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”.

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WAKE-UP

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

1. Press [MENU] 8 3 3.
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] 8 3 4.
2. Select “Yes” or “No” and press OK.

VOICE SERVICE MENU

VOICE SETTING

SET ACTIVE

Allows the user to activate or deactivate voice dial service.

1. Press [MENU] 8 4.
2. Select “Active Flip” or “Send Key” by pressing the Navigation Key left or right.
3. To save, press OK [OK].

HFK MODE

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

1. Press [MENU] 8 4.
2. Scroll to HFK Mode. Select “On” or “Off” by pressing the Navigation Key left or right.
3. To save, press OK [OK].

CH 5

MEMO

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 PHOTO 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].

: Inbox photo read normal	: Outbox photo
: Inbox photo unread normal	: Sent photo
: Inbox read normal	: Outbox read
: Inbox unread normal	: Outbox sent
: Outbox failed	: Outbox not sent

VOICE MAIL

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

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

NEW TEXT MSG

To send a new message:

1. Press [MENU] or press .
2. Under Send To, input the phone number and press [OK].
3. Under Message, input a new text message and press [OK].
   (Please refer to page 29 for more details on entering letters, numbers and symbols.)
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 .
5. Press the Navigation Key down for more fields. Under Priority, select “Normal” or “Urgent”.
6. Under Insert Signature option, select “On” or “Off”.
7. To send the text message, press [SEND].
8. To save the text message, press [MENU] and select the “Save to Outbox” then press [OK].

NEW PHOTO MSG

To send a new picture message:

1. Press [MENU] 3 2 or press 2.
2. Phone goes into camera mode automatically. Take a picture and press [SEND].
   (Please refer to page 80 for more details on taking a photo.)
3. Under Send To, input the phone number and press [OK].
   - You can look it up from the phone book by pressing [MENU].
4. Under Message, input a new text message and press [OK].
   (Please refer to page 29 for more details on entering letters, numbers and symbols.)
5. Under Subject, input a message subject and press [OK].
   (Please refer to page 29 for more details on entering letters, numbers and symbols.)
6. To send a message to another person, select the “CC” or “BCC” and input the phone numbers, then press [OK].
7. To send the text message, press [SEND].
8. To save the text message, press [MENU] and select “Save to Outbox” then press [OK].

INBOX

The Inbox manages received text messages. To access:

1. Press [MENU] 3 4 or press 4.
   - : 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.
3. Press [MENU].

1. REPLY

1. To reply to the text message, press 1.
2. Type your reply and press [OK].
   (Please refer to page 29 for more details on entering letters, numbers and symbols.)

2. REPLY WITH COPY

1. To reply with copy to the take message, press 2.
2. Reply to the received message with received phone number and contents.
3. To reply with copy, press .

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INBOX

3. FORWARD

1. To forward the text message, press 3 “Forward”.
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].

4. SAVE TO SAVED

1. To save the text message in your phone, press 4 “Save to Saved”.
2. Press [OK].

5. SAVE TO QUICK TEXT

1. To save received text msg to “Quick text”, press 5 “Save to Quick Text”.

6. SAVE TO CONTACT

1. To save number to contact, press 6 “Save to Contact”.

7. LOCK & UNLOCK

1. To lock or unlock the text message, press 7 “Lock/Unlock”.
2. Select “Lock” to lock the message or “Unlock” to unlock the message, then press [OK].

OUTBOX

Manages sent text messages or messages waiting to be sent.

CHECKING SENT TEXT MESSAGES

1. Press [MENU] 3 5 or press 5. Select a message, then press [OK].

- : Auto resend
- : Delivered
- : Fail
- : Not send
- : Read
- : Sent

2. The text message is displayed.
3. To Erase Message, press [ERASE].
4. Press [MENU].

1. RESEND

1. To resend a text message, press 1.

2. EDIT MESSAGE

1. To send a message to another person, press 2.
2. Input the phone number and press [OK].
3. Input a text message and press [OK].

TX-110CCES 1210 2003.12.10 3:24 PM 페이지 102

3. SAVE TO CONTACTS

1. To save number to contact, press 3 “Save to Contacts”.

4. SAVE TO SAVED

1. To save the text message in your phone, press 4 “Save to Saved”.
2. Press OK.

5. LOCK & UNLOCK

1. To lock or unlock the text message, press 5 “Lock/Unlock”.
2. Select “Lock” to lock the message or “Unlock” to unlock the message, then press OK.

6. STATE

1. To display the status of an outbox message, press 6.

WEB ALERTS

1. Press [MENU] 3 6 or press ● 6.
2. To select GoTo, press .
   To select Erase Message, press .
3. The text message will be displayed.

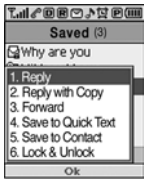
- [ ] : Read Message.
- [ ] : Unread Message.
- [ ] : Displays that text remains.
- GoTo: Connecting Selected Site.
- Erase: Erase Selected Message.

SAVED

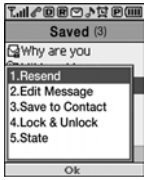
SAVED

Manages saved messages from the Inbox/Outbox.

1. Press [MENU] 3 7 or press 7. Select a text message then press [OK].
2. The text message is displayed. Press [MENU].
3. If the text message is saved from the “Inbox” menu, this screen will be displayed.



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



4. To Erase Message, press [ERASE].
5. Select one by pressing [OK].

QUICK TEXT

QUICK TEXT

To view/edit the quick text messages:

1. Press [MENU] 3 8 or press 8.
2. Select a message from the list. Press [OK].
3. To edit the quick text message you have selected, press 1 [EDIT]. To add a new quick text message, press 2 [ADD NEW].

ERASE ALL

ERASE MESSAGES

1. Press [MENU] 3 9 or press 9.

2. 1. To erase all the inbox messages, press 1.

   - Erases entire inbox or old inbox.

   2. To erase all the outbox messages, press 2.

   - Erases entire outbox or old outbox.

   3. To erase the saved messages, press 3.

3. Select “OK” or “Cancel” with [OK] or [CANCEL].

   - Old: Deletes read Message(s)
   - Entire: Deletes all the message(s) in the Inbox (However, the locked Message(s) will not be deleted).

SETTINGS

Manages messaging features through various features.

AUTO SAVE

SAVE SENT MSG

1. Press [MENU] 3 0 or press 0. Then press 1 for “Auto Save”.
2. Press 1. Select “Off”, “On”, or “Prompt”.
3. Press [OK].

PHOTO RECEIVE

1. Press [MENU] 3 0 or press 0. Then press 1 for “Auto Save”.
2. Press 2. Select “Automatic” or “Prompt”.
3. Press [OK].

AUTO ERASE

Automatically erases inbox/outbox messages when new messages arrive.

AUTO ERASE INBOX

1. Press [MENU] 3 0 or press 0. Then press 2 for “Auto Erase”.
2. Press 1. Select “Disable” or “Enable”.
3. Press [OK].

AUTO ERASE OUTBOX

1. Press [MENU] 3 0 or press ➡ 0. Then press 2 for “Auto Erase”.
2. Press 2. Select “Disable” or “Enable”.
3. Press [OK].

DEFAULT CALL BACK

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

1. Press [MENU] 3 0 or press ➡ 0. Then press 3 for “Default Callback”.
2. Input a call back number, then press [OK].
3. Press [FIND] to find a number from the phone book.

ALERT

Enables phone to alert you of an incoming message.

1. Press [MENU] 3 0 or press ➡ 0. Then press 4 for “Alert”.
2. Select Voice Mail, Messages or Remind.
   For Voice Mail and Messages, select tone 1-5.
   For Remind, select “On” or “Off”.
3. Press [OK].

EDIT SIGNATURE

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

1. Press [MENU] 3 0 or press ➡ 0. Then press 5 for “Edit Signature”.
2. Select “Edit Signature” or “Insert Signature”.
   - EDIT SIGNATURE : Edit user's signature.
   - INSERT SIGNATURE : Select whether the signature will be included into sending message.
3. Press [OK].

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] 3 0 or press ➡ 0. Then press 6 for “Direct View”.
2. Select “On” or “Off”.
   - 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] 3 0 or press ➡ 0. Then press 7 for “Entry Mode”.
2. Select “T9 Mode” or “Alpha Mode”.
3. Press [OK].

BLOCK OR UNBLOCK

1. Press [MENU] 3 0 or press → 0. Then press 8 for “Block or Unblock”.
2. Select “Block”, “Unblock”, or “View List” of Blocked Addresses.
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] 5 1 or press ◀ .

BROWSER MENU

The browser menu lists the actions necessary to operate the browser. Press [MENU] 5 1 or press ◀ to access the browser menu.

BACK

1 To return previous page, press 1 .

HOME

1 To display the homepage, press 2 .

EXIT

1 To exit browser, press 3 .

BROWSER MENU

MARK SITE

1 To add the current page to your bookmark list, press 4 .

- "No bookmark service site" is displayed when the Internet site cannot support the bookmark service.

BOOKMARKS

1 To view your bookmark list, press 5 . This provides easy website access without entering its URL.

INBOX

Displays inbox list.

1 To select Inbox, press 6 .

RELOAD

Reloads current page.

1 To select Reload, press 7 .

SETTINGS

Displays Browser Menu Settings.

1 To select Settings, press 8 .

HOMEPAGE

Enables you to change the homepage.

1 To select "Homepage", press 1 .

CH 7

PROXY

Enables you to select another WAP PROXY.

1 To select “Set UP.Link”, press 2ABC.

CIRCUIT LINGER

1 To select “Circuit Linger” timer, press 3DEF.

SCROLL MODE

1 To select “Scroll Mode”, press 4GHI.

SCROLL SPEED

1 To select “Scroll Speed”, press 5JKL.

KEY PRESS TIMEOUT

1 To select “Key Press Timeout”, press 6MNO.

SECURITY

Displays Security Menu Options.

1 To select “Security”, press 7PQRS.

ADVANCED

Displays Advanced Menu options.

1 To select “Set UP.Link”, press 8TUV.

- -SHOW URL
  Displays the URL (Uniform Resource Locator) of the current page.

  1. To select Show URL, press 1.

- -RESTART BROWSER
  Causes the deck history and deck cache to be cleared and starts a new session with the UP.Link.

  1. To select Restart Browser, press 2ABC.

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MEMO

Chapter 8

SAFETY AND WARRANTY

This chapter addresses the safety guidelines and precautions to follow when operating your phone. Please make sure to be aware of all the details about the safety to operate your phone in the way that you are supposed to.

Before operating your phone, please be aware of all the safety details.

- SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES
- SAFETY INFORMATION FOR FCC RF EXPOSURE
- SAR INFORMATION
- FDA CONSUMER UPDATE
- PROTECT YOUR WARRANTY
- 12 MONTHS LIMITED WARRANTY

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

Read This Information Before Using Your Handheld Portable Cellular Telephone

EXPOSURE TO RADIO FREQUENCY SIGNALS

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

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

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

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

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

ANTENNA CARE

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

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

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

DRIVING SAFETY

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

Also, if using your phone while driving, please:

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

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

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

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

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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 articles, 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 Commossion (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 demaged antenna. If a demaged 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

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SAR INFORMATION

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the governmentadopted 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 1.36 W/Kg and when worn on the body, as described in this user guide, is 1.30 W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure.

The 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-110C.

SAR INFORMATION

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Asso-ciation (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 sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

CH 8

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

1. Do wireless phones pose a health hazard?
The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating 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.

FDA CONSUMER UPDATE

These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF 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 neu-roma, 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 pro-grams around the world.

The Project has also helped develop a series of public information documents on EMF issues. FDA and the Cellular Telecommunications & Internet Asso-ciation (CTIA) have a formal Cooperative Research and De-velopment Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic or-ganizations. CTIA-funded research is conducted through con-tracts 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 Electri-cal 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 expo-sure 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 en-ergy 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 leader-ship of FDA scientists and engineers. The standard, "Recom-mended 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 mea-surement 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 an-tenna.

FDA CONSUMER UPDATE

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wire-less phone use.

10.What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wire-less phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United King-dom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that us-ing 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 evi-dence that any health hazard exists.

11.What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can inter-act 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 Ad-vancement 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 Engi-neers (IEEE). This standard specifies test methods and per-formance requirements for hearing aids and wireless phones so that that no interference occurs when a person uses a "com-patible" 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 pos-sible 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 re-sources:

- FDA web page on wireless phones (http://www.fda.gov/cdrh/ phones/index.html)
- Federal Communications Commission (FCC) RF Safety Pro-gram (http://www.fcc.gov/oet/rfsafety)
- International Commission on Non-Ionizing Radiation Protec-tion (http://www.icnirp.de)
- World Health Organization (WHO) International EMF Project (http://www.who.int/emf)
- National Radiological Protection Board (UK) (http://www.nrpb.org.uk/)

PROTECT YOUR WARRANTY

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

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

Many companies are making look alike accessories and in some cases, promoting that their product is equal to or better than the 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.

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

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

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

This Warranty does not apply to:

(a) Product subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;

(b) Product whose mechanical serial number or electronic serial number has been removed, altered or defaced.

(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.

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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 LAIBILITY 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.
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Hauppauge, NY 11788
(800) 229-1235

IN CANADA : AUDIOVOX COMMUNICATIONS CANADA CO.
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