

AUDIOVOX

CDM-8500

Tri Mode Digital CDMA2000 1X Handheld Portable Telephone

In today's fast paced world, it has become a necessity to have access to real time information. Your communications tools must provide you with this access from anywhere at anytime. With that in mind, Audiovox developed the CDM-8500, a tri mode clamshell style handset with dual LCD displays.

This 1X digital handset enables carriers supporting 1X technology to provide consumers with access to high speed connectivity for web browsing, email and mobile e-commerce. Operating on the 800 MHz Amps/CDMA and 1900 MHz PCS frequencies, the CDM-8500 allows for seamless nationwide coverage as well as offering state-of-the-art, user-friendly features. Voice activated dialing and 2-way speakerphone are great for enhancing hands-free use of this phone. T9™ Text Input, vibrating alert and a 7-line LCD display make the CDM-8500 easier to use.

Seven different LCD colors let you set the backlight to match your mood. Red, yellow, deep green, green, blue, purple and white. You can also set the backlight to change color everytime you open your phone. The keypad is always backlight blue.

Your new CDM-8500 provides you with something only an Audiovox phone can: the proven reliability that has made us a leading wireless handset provider. Please take a few moments to read the following pages of the owner's manual. It will help you make the most efficient use of this valuable communications tool.

Preface

TABLE OF CONTENTS

CHAPTER 1 BEFORE USING YOUR PHONE	7
Package Contents	8
Handset Description	9
Function Keys	10
Display Indicators	11
Using the Battery	13
Installing the Battery	13
Removing the Battery	13
Charging the Battery	14
Power Connection	14
Charging the Battery	14
Battery Charging Time	15
Battery Talk & Standby Times	15
Battery Information	16
 CHAPTER 2 BASIC OPERATION	 17
Using the Phone	18
Turning the Phone On	18
Turning the Phone Off	18
Using the Menu	19
Menu Summary	20
Basic Functions	23
Making a Call	23
Pause Feature	24
Speaker phone	25
Answering Calls	25
Caller ID	25
Call Waiting	26
Answering Machine Display	26
Adjusting the Volume	27
Lock	27
Vibrate	28
Etiquette Mode	28
Functions During a Call	29
Mute	29
Silent	29
Send My Phone#	29

TABLE OF CONTENTS

My Profile.....	30
Voice Privacy	30
Location	30
CHAPTER 3 MEMORY FUNCTION	31
Storing Phone Numbers.....	32
Text Input Methods.....	33
Entering Characters.....	33
Alpha Mode [ABC]	33
T9™ Predictive Text Mode [T9™ABC]	34
Numeric Mode [123]	36
Symbol Mode [SYM].....	36
Speed Dialing	37
One-Touch/Two-Touch Dialing.....	37
Call Logs.....	38
Outgoing Calls	38
Incoming Calls	39
Missed Calls	40
Call Times.....	41
Last Call.....	41
All Calls.....	41
Home Calls	41
Roam Calls	41
Accumulate Calls	41
Using Your Phonebook.....	42
Recalling by Group.....	42
Recalling by Name	42
Recalling by Phone Number.....	43
Editing Your Phonebook	43
Edit Group	44
Speed Dial	46
My Profile.....	47
CHAPTER 4 SETTINGS.....	49
Roaming.....	50
Set Mode	50

TABLE OF CONTENTS

Force Analog	50
NAM Setting	51
PRL ID	52
Setting.....	53
Sounds.....	53
Display.....	58
Others.....	63
UP Proxy IP	67
VR Mode	68
Name	68
Dial.....	69
Redial.....	69
Voice Memo	70
Phonebook.....	70
Cancel.....	71
VS Menu.....	72
Voice Memo	72
Call Answer.....	73
Voice Command	74
Voice Dial.....	78
Voice Alert.....	80
Voice Setting.....	81
CHAPTER 5 SECURITY FEATURES.....	85
Security Features.....	86
Security.....	86
CHAPTER 6 SUPPLEMENTARY FUNCTIONS.....	93
Schedule	94
Event.....	94
Alarm.....	95
Calculator	96
Calculator.....	96
World Clock	97
World Clock	97
Stopwatch.....	98
Stopwatch	98

TABLE OF CONTENTS

CHAPTER 7 VOICE MAIL AND TEXT MESSAGES	99
Two-Way SMS	100
Message Indicators	100
Received Message Notification	100
Checking Messages	101
Checking Received Voice Mail Message	101
Checking Received Text Message	101
Sending Text Messages	102
Sending New Text Messages	102
Inbox	104
Inbox Menu	104
Outbox	106
Outbox Menu	106
Filed	108
Erase All	119
Settings	110
Settings Menu	110
CHAPTER 8 MAKING AN EMERGENCY CALL	113
Emergency Calling	114
E911 Calling	114
CHAPTER 9 INTERNET BROWSER	115
Start Internet Browser	116
Wireless Internet	116
Browser Menu	117
Reload	117
Home	117
Bookmarks	117
Mark Site	117
About Openwave	118
Advanced	118
Show URL	118
Homepage	118
Set WAP PROXY	118

TABLE OF CONTENTS

Offline Services	119
Outbox	119
Restart Up.Browser	119
Encryption	119
CHAPTER 10 DATA SERVICE	121
Data SVC	122
Connection	122
Data Speed	123
Location	124
Setting	124
CHAPTER 11 SAFETY INFORMATION	125
Safety Information for Wireless Handheld Phones	126
Safety Information for FCC RF Exposure	133
SAR Information	134
FDA Consumer Update	136
CHAPTER 12 WARRANTY	145
Protect Your Warranty	146
12 Month Limited Warranty	147

Chapter 1

BEFORE USING YOUR PHONE

Please read and fully understand this manual before using your phone.

This chapter addresses your phone, its keys, display icons, and the charging and proper use of the battery.

Once you have read this chapter, you can move on to the basic and advanced features of your phone.

- Package Contents
- Handset Description
- Function Keys
- Display Indicators
- Using the Battery
- Charging the Battery
- Battery Information

PACKAGE CONTENTS

Thank you for purchasing the CDM-8500 wireless handset. The phone's giftbox contains all of the items listed below.



Handset



Standard Battery



Desktop Charger



User Manual



Hand strap

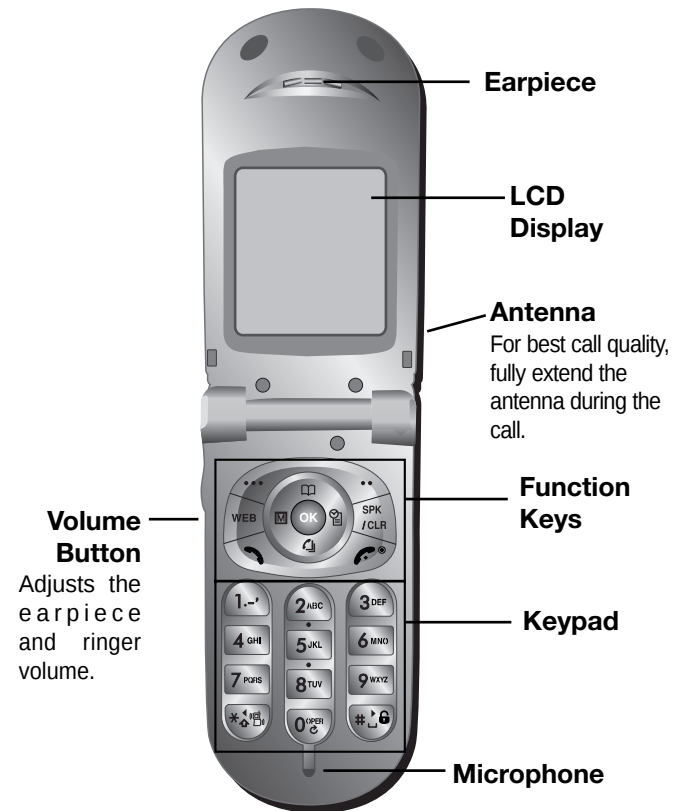


Belt Clip

NOTE: Immediately report any product defects or missing items to the place of purchase.

HANDSET DESCRIPTION

This phone is a tri mode CDMA2000 1X digital phone with data and web browsing capabilities. The CDM-8500 weighs 3.1 oz. and the dimensions are 3.3" x 1.6" x 9".



FUNCTION KEYS



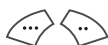
END KEY: Press to turn the handset on or off. Terminates a call or exits the current menu.



SEND KEY: Press to make or receive a call.



NAVIGATION KEY: Press the arrow keys to scroll through the menu. Press OK to select an item in the menu.



SOFT KEYS: Press to perform the functions displayed above them on the LCD Display.



WEB KEY: Press to access the web.



CLEAR KEY: Press to clear characters or enable the speakerphone mode.



LOCK KEY: Press and hold to enter the Lock mode.



ETIQUETTE MODE KEY: This mode disables the keypad tone and enables vibrating alert.

DISPLAY INDICATORS



Signal Strength

Indicates current signal strength. The more lines, the stronger the signal.



Roaming

Phone is outside of its home area.



Service Indicator

When a call is in progress,  is displayed. When  is displayed, the phone is in idle mode. When  is displayed, the phone is not receiving a signal from the system.

Message

Text or voice mail message is waiting.



Text Message



Voice Message



Voice & Text Message



Digital Mode

Phone is operating in digital mode.



Battery

Charge level status. The more black lines, the greater the charge.



Mute

Phone is mute during a call.



1X

Phone is in the 1x service area.



Dormant

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

DISPLAY INDICATORS



Phone receive an "UPAlert".



Phone receive an "UPAlert" and have a text message which it isn't checked.



Silent

Mutes key tone during a call.



Emergency call

Blinks when an emergency call is in progress.



Answering machine memo

New voice memos.



Answering machine

Phone is answering machine mode.



Etiquette

Phone is in etiquette mode (vibration alert).

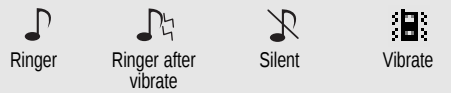


Schedule

Event or an alarm is set.

Ring Mode

Appears when Silent is selected as the ring mode.



Phone is in the progress of UP Browser.



GPS Icon

911 Only

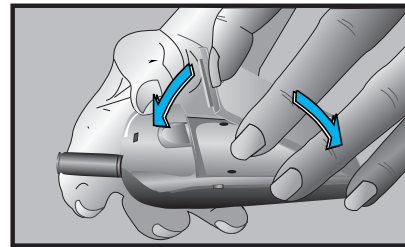


Location On

USING THE BATTERY

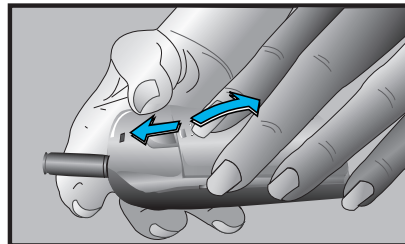
INSTALLING THE BATTERY

1. Insert the bottom of battery into groove at bottom of the handset.
2. Press in the top of the battery until it clicks.



REMOVING THE BATTERY

1. Push the tab with one hand and lift the top of the battery to separate.



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

CHARGING THE BATTERY

POWER CONNECTION

Connect the charger to a standard 110V AC outlet. The battery can be charged alone, or when attached to the phone.



CHARGING THE BATTERY

- Red indicates charging is in progress.
- Green indicates charging is complete.



NOTE: 1. The battery is not charged at the time of purchase.
2. Fully charge the battery before use.

CHARGING THE BATTERY

NOTE: 1. It is more efficient to charge the battery with the handset off.
2. The battery must be connected to the phone in order to charge it.
3. If the LED flickers while charging, the battery contacts may need cleaning.
4. Once fully charged, the LED may change from red to green. This does not indicate a problem with the battery.
5. Battery operating time gradually decreases over time.
6. If the battery fails to perform normally, you may need to replace the battery.

BATTERY CHARGING TIME

Battery Type	BTR - 8500
Charging Time	200 minutes

NOTE: Charging time applies only when your phone is turned off. Charging time may vary if your phone is turned on.

BATTERY TALK & STANDBY TIMES

		Standard Battery (900mAh)
Talk Time (min)	Digital	190
	Analog	90
Standby Time (hrs)	Digital	150
	Analog	12

NOTE: These times are for a new battery. Talk and standby time may decrease over time.

BATTERY INFORMATION

Use only manufacturer approved batteries.

Never use a damaged or worn out battery.

Use the battery only for its intended purpose.

Never expose the battery terminals to any other metal object. This can short circuit the battery.

Avoid exposure to temperature extremes. A phone with a hot or cold battery may temporarily not work (or charge), even if the battery is fully charged. Always allow it to cool down or warm up first and keep the battery between 41°F and 95°F (5°C and 35°C).

When not in use, store the battery uncharged in a cool, dark, dry place.

The battery is a self-contained unit. Do not attempt to open its case.

Battery operating time gradually decreases. You may need to buy a new battery.

Never dispose of a battery in a fire!

Dispose of used batteries in accordance with local regulations.

Recycle!

Chapter 2

BASIC OPERATION

This chapter addresses the phone's basic functions including menus, volume levels, and call features.

- Using the Phone
- Using the Menu
- Menu Summary
- Basic Functions
- Functions During a Call

USING THE PHONE

TURNING THE PHONE ON

1. Press .

● If "PASSWORD" appears, the phone is locked. To unlock, enter your 4-digit password.

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

TURNING THE PHONE OFF

1. Press and hold  until "Powering Off Good Bye" appears.

NOTE: 1. If "LOW BATTERY WARNING POWER OFF" appears and the power goes off, there is a possibility of damaging your phone's memory. It is recommended that you change or charge the battery.
2. If the battery is removed while the phone is on, information about the last call may be erased.

USING THE MENU

USING THE MENU

1. To enter the main menu from the standby screen, press .
2. Use the navigation key to view menu selections.
3. To go back to previous screen, press .
4. To exit the menu, press .
5. To go into a submenu, press the corresponding number or select the desired item by pressing  on the navigation key.

●  can be used for scrolling through the menu.

MENU SUMMARY

CALL HISTORY	▶	1 : Outgoing Calls	
		2 : Incoming Calls	
	▶	3 : Missed Calls	
		4 : Call Times	1 : Last Call
	▶		2 : All Calls
			3 : Home Calls
	▶		4 : Roam Calls
			5 : Accumulate Calls
PHONE BOOK	▶	1 : Find	1 : By Group
			2 : By Name
	▶		3 : By Number
			1 : Add New Entry
	▶	2 : Edit Phonebook	2 : Edit Existing Entry
			1 : Add New Group
	▶	3 : Edit Group	2 : Change Group Name
			3 : Change Group Bell
	▶		4 : Change Group Color
			5 : Clear Group
	▶	4 : Speed Dial	• Name
		5 : My Profile	• My Phone Number
	▶		• Birthday
			• Blood Type
	▶		• Address
			• Home Number
	▶		• E-mail
			• Work Phone Number
	▶		• Memo
			• Set Secret
SCHEDULE	▶	1 : Event	1 : New Event
			2 : View Event List
	▶	2 : Alarm	

MENU SUMMARY

ROAMING	▶	1 : Set Mode	
		2 : Force Analog	
	▶	3 : NAM Setting	1 : Auto NAM
			2 : Change NAM
	▶	4 : PRL ID	
SETTING	▶	1 : Sounds	1 : Ringer Type
			2 : Ringer Mode
	▶		3 : Volume
			4 : Alert
	▶		5 : Roam Ringer
			6 : Tone Length
	▶	2 : Display	1 : Animation Setting
			2 : Main Display Setting
	▶		3 : LCD Setting
			4 : Sub LCD Setting
	▶	3 : Security	1 : Restrict
			2 : Special #'s
	▶		3 : Clear Phonebook
			4 : Reset Phone
	▶		5 : Change Password
			1 : Answer Mode
	▶	4 : Others	2 : Active Flip
			3 : Auto Retry
	▶		4 : Auto Answer
			5 : Voice Privacy
	▶		6 : Language
			7 : Web Idle Time
	▶		8 : S/W Version
	▶	5 : UP Proxy IP	
TOOLS	▶	1 : Calculator	
		2 : World Clock	
	▶	3 : Stopwatch	

MENU SUMMARY

DATA SVC.

- ▶ 1 : Connection
- 2 : Data Speed

LOCATION

- ▶ 1 : Setting

VOICE SVC

- ▶ 1: Voice Memo
 - 2: Call Answer
 - 1 : On/Off
 - 2 : Inbox
 - 3 : Call Speaker
 - 4 : Wait Time
- 3: Voice Command
 - 1 : Yes/No
 - 2 : Wake-Up
 - 3 : Top Level
 - 4 : Digit Dial
- 4: Voice Dial
 - 1 : List
 - 2 : Add
 - 3 : Clear All
- 5: Voice Alert
 - 1 : On/Off
 - 2 : Record
 - 3 : Play
 - 4 : Clear
- 6: Voice Setting
 - 1 : Untrain All
 - 2 : Prompt Mode
 - 3 : Digit Mode
 - 4 : HFK Mode
 - 5 : Set Active

BASIC FUNCTIONS

MAKING A CALL

1. Enter the phone number.
2. To place a call, press .

- *If the line is busy, press .*
- *To erase the last entered number, press .*
- *To erase all numbers and start again, press and hold .*
- *"CALL FAILED" will display if the call did not connect.*
- *If the line is busy, press .*
- *Selecting Auto Retry will automatically redial the number for the time you have selected. (Refer to page 64)*

3. To end a call, press .

BASIC FUNCTIONS

PAUSE FEATURE

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

1. Enter the phone number, then press  [PSE].
2. Select the desired pause (Hard Pause or Timed Pause). A “P” will appear after the number to represent the pause.

STANDBY MENU

STO	FIND	PSE
-----	------	-----

PAUSE INPUT:

- 1 : HARD PAUSE
- 2 : TIMED PAUSE

Standby menu that appears when entering a number.

3. Then enter the second set of numbers.
4. To dial, press . To store, press .

HARD PAUSE: If you enter the pause character (P), the number entered after the pause character will be sent after the dialed number.

BASIC FUNCTIONS

SPEAKER PHONE

1. To activate speakerphone in idle, answering and calling modes, press and hold .
2. After a call the phone returns to normal (Speakerphone off).

The phone resets to Speakerphone Off when it turns off and back on.

ANSWERING CALLS

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

NOTE: Calls can be automatically answered by activating the AUTO ANSWER function. (Refer to page 65)

CALLER ID

Identifies caller by displaying that person's phone number. If the caller's name and number are stored in your phonebook, the name and number from the memory location are displayed.

NOTE: The Caller ID numbers are saved in the call log. Caller ID is a system dependent feature. Please contact your service provider for details.

BASIC FUNCTIONS

CALL WAITING

If you have call waiting this function notifies you of an incoming call when you are on another call by sounding a beep tone.

1. When you hear the beep, press  to answer the call.
2. To switch back to the first caller, press  again.

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

ANSWERING MACHINE DISPLAY

Notifies you of unchecked recorded memos in the answering machine and displays the number of stored memos that are recorded in the answering machine.

To play the recorded voice memos, press .

See page 73 for more information about the answering machine.

BASIC FUNCTIONS

ADJUSTING THE VOLUME

You can adjust the volume in two ways: by using the volume control keys on the side of the handset.

Pressing volume control keys:

- During a call : Adjusts earpiece volume.
- In Standby Status : Adjusts ringer volume.
- When the phone rings : Adjusts ringer volume.

See page 54 for more detailed instructions.

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.

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

BASIC FUNCTIONS

VIBRATE

Disables the ringer and vibrates when an incoming call is received. To enable this function:

1. Press  .
2. Select “SOUNDS”, then press .
3. Select “VIBRATE”.

ETIQUETTE MODE

Silences all phone sounds while attending a meeting, a movie, or any other time you do not want your phone to be heard. All phone sounds include the ringer, key beeps and notifications. Your phone will vibrate to notify you of an incoming call. To enable this function, press and hold  “Etiquette mode”.

FUNCTIONS DURING A CALL

These menu items are available while you are on a call.

MUTE

Mutes the microphone while you are on a call so the other party cannot hear you if you speak.

1. Press   “MUTE”.

NOTE: To turn mute off, press , then  “Unmute” again.

SILENT

Prevents the person you're talking to from hearing DTMF tones when any key is pressed during a call.

1. To activate, press   “SILENT”.
2. To deactivate, press .

SEND MY PHONE#

Enables your phone number to be automatically transmitted to a pager. (Dependent on pager service.)

After calling a pager, when you are asked to enter your number, press   “SEND MY PHONE #”.

FUNCTIONS DURING A CALL

MY PROFILE

Enables you to review and edit your profile, entered through the phonebook entry. Please refer to page 47 for more details.

1. Press   "MY PROFILE".

VOICE PRIVACY

Enhances voice privacy during a call.

1. Press   "VOICE PRIVACY".
2. Select "STANDARD" or "ENHANCED" with the navigation key.

NOTE: *This feature may not be available on all networks.
Please check with your service provider for availability.*

LOCATION

Enables your network to locate your current location through Global Positioning System (GPS). Refer to page 124 for more details.

1. Press   "LOCATION".

NOTE: *This feature may not be available on all networks.
Please check with your service provider for availability.*

Chapter 3

MEMORY FUNCTION

This chapter addresses numerous functions including saving phone numbers to the internal phonebook, entering text and accessing call logs.

- Storing Phone Numbers
- Text Input Methods
- Speed Dialing
- Call Logs
- Call Times
- Using Your Phonebook

STORING PHONE NUMBERS

The CDM-8500 internal phonebook stores up to 300 frequently dialed numbers.

- 1. Enter the phone number, including area code, and press .
- 2. To select add new entry and press .
- 3. To select phone number type by using the navigation key (Home, Mobile, Office, Pager, Fax) and press .
- 4. Press  [EDIT] then enter the person's name and press .
- 5.1 To make a voice dial, select the catalog by using the navigation key (Home, Mobile, Office). Press  and press .
- 5.2 Press  "Enter Voice Tag?".
- 5.3 Press .
- 6. To confirm the entry & save to your phonebook press .

NOTE: "New entry saved" will appear.

TEXT INPUT METHODS

ENTERING CHARACTERS

For convenient entry of memory location names and text messages, your phone offers several text input methods:

- Alpha mode :** Enters words by repeatedly tapping the corresponding key until the desired character is displayed.
- T9™ mode :** Tap each corresponding key only once and the phone predicts the word you are entering.
- Numeric mode :** Only enters numbers.
- Symbol mode :** Enters symbols like @, #, %.

ALPHA MODE [ABC]

To choose Alpha mode, press  [MODE] then choose [ABC]. The chart below outlines the key presses needed to display each letter or number in this mode.

Key Pad	1 Repetition	2 Repetitions	3 Repetitions	4 Repetitions	5 Repetitions
1	1	.	@	-	'
2ABC	A	B	C	2	...
3DEF	D	E	F	3	...
4GHI	G	H	I	4	...
:	:	:	:	:	:
9WXYZ	W	X	Y	Z	9

- The cursor automatically moves to the next space in two seconds after character input.
- To erase one letter, press .
- To erase the entire entry, press and hold .
- To switch between lowercase to uppercase letters, press .

TEXT INPUT METHODS

T9™ PREDICTIVE TEXT MODE [T9™ABC]

To choose T9™ mode, press  [MODE] then choose [T9™ABC]. This mode predicts the words you are entering using a built-in dictionary. With T9™ predictive text input, you press each key only once for each letter. The chart below outlines how to use T9™ text input.

KEY	FUNCTION
 Mode	Press to change text input mode: [T9™Abc][123][Sym]. Select [T9™Abc] for predictive text input.
[0] Next	Press to view the next matching word if the underlined word is not the word you intended.
[#] Space	Press once to accept a word and add a space.
 Clear	Press once to delete the character to the left of the cursor.
 Left, Right	To move cursor.
 Switch	To switch between lowercase to uppercase letters:[ABC][Abc] [abc][T9™ABC][T9™Abc][T9™abc].

TEXT INPUT METHODS

1. Press each key once for each letter of the word you are writing.

- To write **John** with the English dictionary selected:

1. Press 5 once - (for - k)
2. Press 6 once - (for - km)
3. Press 4 once - (for - log)
4. Press 6 once - (for - john)

NOTE: The display shows for each key pressed.

2. Press  until the correct word is displayed.
3. To select the correct word and press .

TEXT INPUT METHODS

NUMERIC MODE [123]

Numeric mode allows you to add a number to your entry/message. To select numeric mode, press  [MODE] then select [123].

SYMBOL MODE [SYM]

Select symbol mode allows you to add various symbols to your entry. Whether you are adding an e-mail address to your phonebook or sending an expressive message, symbols make these entries easier.

To select symbol mode, press  [MODE] then choose [SYM].

The symbols will appear on the display.

The corresponding key number for that symbol will appear as well. You can press the key to select the symbol or use the navigation key to highlight the symbol, then press .

To move to the next screen of symbols press .

SPEED DIALING

ONE-TOUCH/TWO-TOUCH DIALING

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

ONE-TOUCH DIALING:

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

TWO-TOUCH DIALING:

10-20 : Press the first digit and second digits of the memory number short and long respectively.

- If no phone number is stored in the location entered, “There is no number” will appear on the screen.
- If a phone number is stored in secret, you must enter the password to make a call.

NOTE: See page 46 for information about saving a phone number in a speed dial location.

CALL LOGS

The CDM-8500 keeps a log of the 10 most recently missed, answered (incoming) and dialed (outgoing) calls. Log information includes the phone number and the date and time of the call.

OUTGOING CALLS

1. To view the 10 most recently dialed numbers, press    .
The most recent call will be listed first.
2. Use the navigation key to scroll through the list of dialed calls, then select the desired number. To view call details, press  .
 - Detail information includes the phone number, its log number, time and date of the call.
3. To dial the number, press  .
To delete the number, press  .
To save the number, press  .
You can add a prefix or simply store the number as is.

CALL LOGS

INCOMING CALLS

1. To view the 10 most recently answered calls, press    .
The most recent call will be listed first.
2. Use the navigation key to scroll through the list of answered calls, then select the desired number. To view call details, press  .
 - Detail information includes the phone number, its log number, time and date of the call.
3. To dial the number, press  .
To delete the number, press  .
To save the number, press  .
You can add a prefix or simply store the number as is.

CALL LOGS

MISSED CALLS

1. To view the 10 most recently missed calls, press    .
The most recent call will be listed first.
2. Use the navigation key to scroll through the list of missed calls, then select the desired number. To view call details, press  .
 - Detail information includes the phone number, its log number, time and date of the call.
3. To dial the number, press  .
To delete the number, press  .
To save the number, press  .
You can add a prefix or simply store the number as is.

CALL TIMES

LAST CALL

To display the total time of your last call:

1. Press     .

ALL CALLS

To display the total time of all your calls:

1. Press     .

HOME CALLS

To display the total time for calls placed within your home area:

1. Press     .

ROAM CALLS

To display the total time for calls placed outside your home area:

1. Press     .

ACCUMULATE CALLS

To display talk time of accumulated calls:

1. Press     .

USING YOUR PHONEBOOK

RECALLING BY GROUP

1. Press    .
2. Select one of the options (Family, Friends, Work, Etc, All) with the navigation key then press .
3. All the entries under the group will appear. You can delete the entry by pressing  or view the entry by pressing ok icon when it is selected.
4. To call the selected number, press  icon, select which number for the entry you want to call & press .

RECALLING BY NAME

1. Press    .
2. Enter a name or partial name then press  to display names in the phonebook using that name or characters in alphabetical order, regardless of letter case. (Please refer to page 33 about the usage of Alpha Editor)
3. All matched entries appear.
Delete an entry by pressing  or view an entry by pressing .
4. To call one of the numbers for the selected entry, select the number to dial and press .

USING YOUR PHONEBOOK

RECALLING BY PHONE NUMBER

Recall saved phone numbers by searching for the location number. Search results include the name and phone number saved to that location.

1. Press    .
2. Enter the phone number or partial phone number & press .
- All numbers matching the entered numbers will appear. Use the navigation key to select the desired numbers and press .
3. To dial the selected number, scroll to that number in the entry and press .

EDITING YOUR PHONEBOOK

You can add, edit, or erase phone numbers in the phonebook.

ADD NEW ENTRY

1. To add a new entry to the phonebook, press    .
2. Use the navigation key to move to a phonebook field entry and enter the required information.
3. To save it press . To return to the previous page, press .

See page 32 for complete add new entry instructions.

USING YOUR PHONEBOOK

EDIT EXISTING ENTRY

1. To edit an existing entry, press     .
The 5 entry groups appear – Family, Friends, Work, Etc., All.
2. Use the navigation key to select one of the groups & press  .
3. Select an entry under the group. To view or edit the entry, press  . To delete the entry, press  .

EDIT GROUP

Adds, changes and deletes a group.

ADD NEW GROUP

1. To add a new group, press     .
A maximum of 7 groups is allowed.
2. Input a new group name.
3. To save, press  .

USING YOUR PHONEBOOK

CHANGE GROUP NAME

1. To change a group name, press     .
2. Use the navigation key to select an existing group name & press  .
3. Input a new name.
4. To save it, press  .

CHANGE GROUP BELL

1. To change a group bell, press     .
2. Select the group whose bell is to be changed & press  .
3. Use the navigation key to select one of the bell options.
4. To save it, press  .

CHANGE GROUP COLOR

1. To change a group color, press     .
2. Select the group whose color is to be changed & press  .
3. Use the navigation key to select one of the group colors.
4. To save it, press  .

USING YOUR PHONEBOOK

CLEAR GROUP

1. To delete an existing group, press .
2. Use the navigation key to select the group to be deleted & press .
3. If a phone number already exists in the location, press , then to delete it.
4. To reconfirm, press .

SPEED DIAL

Links a phone number of phonebook entry to a location number and enables you to make a call simply by pressing its location number in the idle mode.

1. Press .
2. To link a phone number to the location, select the location then press . If a phone number already exists in the location, press then the navigation key to delete it.
3. Select the group where the phone number is saved, then press .
4. Select the entry, then press .
5. Select the phone number, then press .

USING YOUR PHONEBOOK

MY PROFILE

Saves and edits your personal information.

1. To review and edit your personal information (Name, My phone number, Birthday, Blood Type, Address, Home Number, E-Mail, Work Phone Number, Memo, Set Secret), press .

To Select the "Blood type"(A/B/AB/O) with the navigation key.

2. To edit a selected item, press .
3. To confirm and save, press .

MEMO

Chapter 4

SETTINGS

This chapter addresses customizing your phone by adjusting backlighting, volume, ring tones and other user-friendly features.

- Roaming
- Setting
- VR Mode
- VS Menu

ROAMING

Scans the channels to stay connected to any available system.

SET MODE

Selects the Preferred System.

1. Press   .
2. Select one of the following options (Automatic A/ Automatic B / Home Only) with the navigation key, then press .

- **Automatic** : Scans the radio channels based on the Automatic setting. – read description for Auto A & Auto B.
- **Home Only** : Force phone to use the only home system.

FORCE ANALOG

Temporarily forces phone to use Analog mode – mode automatically ends in 10 minutes.

1. Press   .
2. Select “Yes” or “No” with the navigation key, then press  to activate it.

ROAMING

NAM SETTING

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

AUTO NAM

To automatically switch phone to the proper NAM when you have multiple NAM registrations:

1. Press    .
2. Select “Yes” or “No”, then press  to save it.

CHANGE NAM

To change the NAM used by the phone when you have multiple registrations:

1. Press    .
2. Select a NAM (NAM1,NAM2) with the navigation key, then press  to save it.

ROAMING

PRL ID

To display the phone's PRL (Preferred Roaming List):

1. Press   .



SETTING

SOUNDS

You can choose different Ringer Type, Ringer Mode, Volume, Alert, Roam Ringer and Tone length.

RINGER TYPE

Selects a ringer type to alert you of an incoming call.

1. Press    .
2. Select a ringer type from the 30 melodies and 10 Ringtones.
3. To confirm, press .

RINGER MODE

Alerts you to incoming calls in the following modes:

1. Press    .
2. Select one of the following options with the navigation key.
 -  Ringer
 -  Vibrate
 -  Ringer after Vibrate – The ringer sounds after vibration.
 -  Silent – Mutes the ringer
3. To confirm, press .

SETTING

VOLUME

Controls the volume of the following items. The volume can be adjusted to 5 levels.

RINGER

Controls the Ringer volume.

1. Press     .
2. Adjust the ringer volume with the navigation key.
3. To save, press .

KEY

Controls the keypad tone.

1. Press     .
2. Adjust the keypad tone with the navigation key.
3. To save, press .

VOICE CALL

Controls the earpiece volume

1. Press     .
2. Adjust the earpiece volume with the navigation key.
3. To save, press .

SETTING

ALERT

Sounds an alert to any change occurring on the phone.

MINUTE ALERT

Sounds an alert every minute of a phone call.

1. Press     .
2. Select “OFF” or “ON” with the navigation key, then press  to save it.

ROAM ALERT

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

1. Press     .
2. Select “OFF” or “ON” with the navigation key, then press  to save it.

CONNECT ALERT

Notifies you that a call has been successfully placed.

1. Press     .
2. Select “OFF” or “ON” with the navigation key, then press  to save it.

SETTING

FADE ALERT

Sounds an alert when entering an area where calls cannot be made due to weak signal strength. The alert sounds is made when the call is disconnected.

1. Press     .
2. Select “OFF” or “ON” with the navigation key, then press  to save it.

LOW SIGNAL ALERT

Sounds an alert when you encounter low signal strength during a call and in standby mode.

1. Press     .
2. Select “OFF” or “ON” with the navigation key, then press  to save it.

SETTING

ROAM RINGER

Reminds you that you are in a roaming service area, by sounding a different ringer from what you set as voice call in Ringer type.

1. Press    .
2. Select “Distinctive” or “Normal” with the navigation key, then press  to save it.

- **Distinctive** : Sounds a different ringer type.
- **Normal** : Sounds the same ringer type as used in Home area.

TONE LENGTH

Adjusts the tone length.

1. Press    .
2. Select “Normal” or “Long” with the navigation key, then press  to save it.

SETTING

DISPLAY

Customizes and personalizes the display.

ANIMATION SETTING

Selects your favorite LCD display in the following modes:

IDLE DISPLAY

1. Press     .
2. Select one from the Animation List to use in the idle mode by using the navigation key.
3. To save, press .

POWER ON

1. Press     .
2. Select one from the Animation List to use in the power on mode by using the navigation key.
3. To save, press .

SETTING

POWER OFF

1. Press     .
2. Select one from the Animation List to display when you turn off the handset by using the navigation key.
3. To save, press .

MAIN DISPLAY SETTING

Selects your favorite LCD display in the following modes

GREETING INPUT

To edit the greeting press the navigation key.

1. Press     .
2. To edit the greeting press .
3. Input your personal greeting, using the Alpha Editor.
4. To save, press .

SETTING

IDLE CLOCK

To select an LCD clock display:

1. Press     .
2. Select one of the following options:
 - Digital Clock
 - Analog Clock
 - Greeting Clcok
 - Animation+Clock
3. To save, press .

LCD SETTING

Controls backlight and LCD contrast for better view and more efficient use.

BACKLIGHTING

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

1. Press     .
2. Select one of the following options: 5 secs, 10 secs, 20 secs, Off.
 - **Off: Turns the backlight off**
 - **5 secs, 10 secs, 20 secs : Backlight remains on for 5, 10, or 20 seconds after touching the keypad.**
3. To save, press .

SETTING

CONTRAST

The LCD display contrast can be adjusted to 5 levels.

1. Press     .
2. Adjust the LCD contrast for better view.
3. To save, press .

LCD COLOR

To select an LCD display backlight color.

1. Press     .
2. Select one of the following options: Automatic, Red, Green, Yellow, Blue, Deep Green, Purple, White.
3. To save, press .

When Automatic is selected, the LCD backlight color will change to a different color (one of the seven colors) everytime you open and close the phone.

NOTE: They keypad backlight color does not change. It is always blue.

SETTING

SUB LCD SETTING

Controls backlight and Sub LCD contrast for better view and more efficient use.

SUB LCD CLOCK

To select a Sub LCD clock display:

1. Press     .
2. Select one of the following options: Analog Clock, Digital Clock.
3. To save, press .

SUB LCD CONTRAST

The Sub LCD display contrast can be controlled in 5 levels.

1. Press     .
2. Adjust the Sub LCD contrast for better view.
3. To save, press .

SETTING

OTHERS

ANSWER MODE

Selects an Answer mode.

1. Press    .
2. Select “Any Key” or “Send Key” with the navigation key.

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

3. To save, press .

ACTIVE FLIP

Selects an Active Flip Answer mode as follows.

1. Press    .
2. Select “On” or “Off” with the navigation key
3. To save, press .

NOTE: 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 & follow the Answer Mode you have selected.

SETTING

AUTO RETRY

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

RETRY TIME

1. Press     .
2. Select a time interval option (Off, 3, 5, 7, 10 seconds) with the navigation key.
3. To save, press .

REPEAT

1. Press     .
2. Select one of the options (1 time, 3 times, 5 times) with the navigation key.
3. To save, press .

SETTING

AUTO ANSWER

Automatically answers a call after a preset number of rings. An ideal setting for the hands-free car kit.

1. Press    .
2. Select one from the following items (off, 5, 10, 18 seconds) with the navigation key.

NOTE: *This function will not be activated when you select Vibrate, Silent, or Ringer after vib as a ringer mode.*

3. To save, press .

VOICE PRIVACY

Enhances voice privacy and avoids tapping during a call.

1. Press    .
2. Select “Standard” or “Enhanced”, if available.

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

3. To save, press .

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

SETTING

LANGUAGE

Selects the language in which letters are displayed on screen.

1. Press    .
2. Select “English” or “Spanish”.
3. To save, press .

WEB IDLE TIME

This function disconnects your phone from a network when there is no key input for a certain time period.

1. Press     and set the web idle timer.
2. Use the navigation key to set the web idle timer or press digit keys to enter the time on your own.

S/W VERSION

Displays the version of your phone.

1. Press    .
2. The version of the software and hardware appears.

SETTING

UP PROXY IP

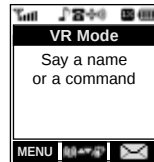
To access your service provider's website the phone can have up to 3 sets of the server IP (Internet Protocol) addresses and Port numbers. These may already be preset or be separately programmed by your service provider. Please note that any change to these settings may disable the Web access capability.

1. Press   .

VR MODE

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

1. Press and hold  until your phone turns to VR mode.
2. When the phone turns to VR mode, the screen on the right appears.



NOTE: Depending on the prompt mode – expert or beginner -- you will hear a different set of prompts as listed below. The second prompt will automatically play if nothing is said.

Beginner Mode

- 1st : “Main Menu”
- 2nd : “Speak a name to call, or say dial, redial, voice memo, phonebook or cancel”.

Expert Mode

- 1st : “beep”
- 2nd : “Main Menu”

Once you say one of the following options. You will go through each of the procedures (name, dial, redial, voice memo, phonebook, cancel).

NAME

1. Press and hold  and wait until your phone turns to VR mode.
2. In VR mode, say a recorded name or tag stored in the phonebook, and the name and number will appear on the display and you will hear “Calling <name>.”

See page 78 for additional details.

VR MODE

DIAL

1. Press and hold  until your phone turns to VR mode.
2. Say “Dial” and the display on the right will appear.



Depending on the prompt mode, expert or beginner, you will hear a different set of prompts that follows. You can hear the second prompt when nothing is said.

3. Press or say the digits of the phone number.
4. After entering the entire number, say “Call”.

NOTE:

Beginner mode

- 1st prompt : “Digit menu”
- 2nd prompt : “Say digits or verify, cancel, clear, or call”.

Expert mode

- 1st prompt : “doo-doo” (a sequence of high and low tones).
- 2nd prompt : “Digit menu”

REDIAL

1. Press and hold  until your phone turns to VR mode.
2. To call the last dialed number, say “Redial”.

VR MODE

VOICE MEMO

This feature is the same as on page 72, except you must use the phone to access the menu not your voice.

1. Press and hold  until your phone turns to VR mode.
2. Say "Voice Memo" instructions will appear and you will hear "Please record it at the tone".
3. To stop recording, press .

NOTE: Press  to pause, then press  to resume.

4. After recording a voice memo you can REVIEW, RE-RECORD or SAVE.

PHONEBOOK

1. Press and hold  until your phone turns to VR mode.
2. Say "Phonebook".

Phonebook entries with voice tags will appear and each voice tag will play.

NOTE: To call a phone number with an attached voice tag, say "Yes" while the voice tag plays.

VR MODE

CANCEL

1. Press and hold  until your phone turns to VR mode.

To exit VR mode or return to the standby mode, say "Cancel."

VS MENU

VOICE MEMO

RECORD VOICE MEMO

1. To start VS menu, press  .
2. To enter the voice memo menu, press .
3. When you press  to record a voice memo, instructions will appear and you will hear "Please record it at the tone".
4. To stop recording a memo, press .

NOTE: Press  to pause, then press  to resume.

5. After recording a voice memo you can REVIEW, RE-RECORD or SAVE.

PLAY VOICE MEMO

1. To start VS menu, press  .
2. To enter the voice memo menu, press .
3. To play the voice memo menu, press , select the desired voice memo, press .

NOTE: **Edit Key** - To edit the voice memo title.
CLR Key - To delete the selected voice memo.

CLEAR ALL

1. To start VS menu, press  .
2. To enter the voice memo menu, press .
3. To delete a voice memo, press .

VS MENU

CALL ANSWER

Sets and operates the answering machine.

1. Press  .
2. Press .
3. Select one of the following options with the navigation key, then press .

ON/OFF : Turns the Auto Answering machine on/off.

INBOX : Play or erase a recorded memo.

CALL SPEAKER ON (OFF) : You can(not) hear the caller's voice being recorded in the answering machine.

WAIT TIME : No Ringer, 5s, 10s, 18s. The answering machine will be operated in a specific time.

ICONS IN THE STORED MEMO LIST

☒ : Unchecked recorded memo in Answering machine.

☐ : A recorded memo in Answering machine that you have already checked.

NOTE:

RECORDING LIMITATION :

You have a limit of 10 voice memos including those in Answering Machine. Each voice memo has the time limit of 60 seconds.

Answering Machine plays preprogrammed greeting. This cannot be changed.

VS MENU

VOICE COMMAND

Trains the VR with the following categories of control words:

YES/NO

- 1. Press  .
- 2. Press  .
- 3. Select one of the following options with the navigation key, then press .

LIST WORDS : Displays the list of control words in the Yes/No set. Select a control word from the list then press . Either train, untrain or view its status. To train a word, press  and follow the voice prompts.

TRAIN ALL : Train Yes/No set to recognize your voice.

UNTRAIN ALL : Untrain Yes/No set not to recognize trained control words.

VS MENU

WAKE UP

Use the Wake-Up to train or untrain the VR with the control word, wake up.

- 1. Press  .
- 2. Press  .
- 3. Select one of the following options with the navigation key, then press .

LIST WORDS : Displays the list of control words in the wake up set. Select a control word from the list then press . Either train, untrain or view its status. To train a word, press  and follow the voice prompts.

TRAIN ALL : Train Wake-up set to recognize your voice.

UNTRAIN ALL : Untrain Wake-up set not to recognize trained control words.

VS MENU

TOP LEVEL

Use the Top Level to train or untrain the VR with your control words. (Dial, Redial, Voice Memo, Phonebook, Cancel).

- 1. Press  .
- 2. Press  .
- 3. Select one of the following options with the navigation key, then press .

LIST WORDS : Displays the list of control words in the top level set. Select a control word from the list then press . Either train, untrain or view its status. To train a word, press  and follow the voice prompts.

TRAIN ALL : Train Top level set to recognize your voice.

UNTRAIN ALL : Untrain Top level set not to recognize trained control words.

VS MENU

DIGIT DIAL

Use the Digit dial to train or untrain the VR with the control words (1 to 9, Zero, Oh, Verify, Clear, Call).

- 1. Press  .
- 2. Press  .
- 3. Select one of the following options with the navigation key, then press .

LIST WORDS 1, 2 : Displays the list of control words in the digit dial set. Select a control word from the list then press . Either train, untrain or view its status. To train a word, press  and follow the voice prompts.

TRAIN ALL : Train Digit dial set to recognize your voice.

UNTRAIN ALL : Untrain Digit dial set not to recognize trained control words.

VS MENU

VOICE DIAL

Lists, adds and erases voice tags for phonebook entry

LIST

1. Press .
2. To list phonebook entries with attached voice tags, press .
3. Select one with the navigation key, then press .

EDIT : Retrain / Voice Setting / Clear
PLAY : Play voice tag.

4. Press to play a voice tag or to edit an existing voice tag.
5. Select one of the following options, then press .

1) Retrain: "Retrain Voice Name?" appears. Press , then say a name.
2) Voice Setting: "Change?" appears. Press , select a phone number, then press again.
3) Clear: "Removing Voice Names Proceed?" appears. Press .

VS MENU

ADD

1. Press .
2. To add a voice tag to phonebook entry, press .
3. Select one group with the navigation key, then press .
4. Select a phone number with the navigation key, then press .
5. To add a voice tag to the number, say the name.

CLEAR ALL

1. Press .
2. To erase all voice tags in the list, press .
3. "Removing all voice tags proceed?" appears.
4. Press and you will see a message.

OK : Proceed to erase all the voice tags.
CNCL : Return to the previous page.

5. To clear all voice tags, press .

VS MENU

VOICE ALERT

Sets the voice alert service.

ON/OFF

1. Press  .
2. Press  .
3. Select "On" or "Off" with the navigation key, then press .

RECORD

1. Press  .
2. Press  .
3. Record voice alert.

PLAY

1. Press  .
2. Press  .
3. Confirm voice alert.

CLEAR

1. Press  .
2. Press  .
3. Select "Yes" or "No" with the navigation key, then press .

VS MENU

VOICE SETTING

Customizes the voice service menu.

UNTRAIN ALL

1. Press  .
2. Press  .
3. Select "Yes" or "No" with the navigation key, then press .

PROMPT MODE

Use the prompt mode to select either beginner or expert mode. The expert mode consists of shorter texts and just beeps as opposed to the beginner mode that gives full instructions.

1. Press  .
2. Press  .
3. Select Beginner/Expert with the navigation key.
Press .

<Beginner mode>

1st prompt : "Main menu" followed by a short beep.

2nd prompt : "Speak a name to call, or say dial, redial, voice memo, phonebook, or cancel", followed by a short beep.

<Expert mode>

1st prompt : A sequence of high and low tones.

2nd prompt : "Main menu".

NOTE:

The VR times out and the phone returns to the standby mode after the 1st and 2nd prompts are heard and nothing is said.

VS MENU

DIGIT MODE

Use the digit mode to select one of the following options ; ECHO, BEEP, ECHO+BEEP.

1. Press   .
2. Press   .
3. Select one option with the navigation key, then press  .

ECHO: Digit echoes back when entered.

BEEP: Digit beeps when entered.

ECHO + BEEP: Digit echoes and beeps when entered.

HFK MODE

HFK stands for Hands-Free Car Kit. With this function, you can activate and utilize the VR feature when the phone is in hands-free car kit.

1. Press   .
2. Press   .
3. Select “Off” or “On” with the navigation key, then press  .

NOTE: Once you say “Wake Up” and the phone recognizes your voice, you will hear a beep. The second time you say “Wake Up”, your phone turns to VR mode.

VS MENU

SET ACTIVE

1. Press   .
2. Press   .
3. Select “Send Key” or “Active Flip” with the navigation key, then press  .

MEMO

Chapter 5

SECURITY FEATURES

This chapter addresses security features including locking and unlocking the phone, restricting calls and clearing the phonebook.

SECURITY FEATURES

SECURITY

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

RESTRICT

Enables you to restrict certain features with the password. You are to unlock the phone to use the features.

AUTOMATIC LOCK

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

1. Press    then enter "PASSWORD."
2. Press   then select "Off", "Lock Now" or "Lock On Power Up".

- **Off : Do not lock the phone.**
- **Lock Now : Lock the phone now.**
- **Lock On Power Up : Lock the phone whenever it is turned on.**

3. To save, press .

SECURITY FEATURES

INCOMING CALL

Blocks all incoming calls but allows outgoing calls to be placed.

1. Press    then enter "PASSWORD."
2. Press   then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict an incoming call.**
- **Allow : Allow an incoming call**

3. To save, press .

OUTGOING CALL

Blocks all outgoing calls except emergency calls from being placed, but allows incoming calls to be answered.

1. Press    then enter "PASSWORD."
2. Press   then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict an outgoing call.**
- **Allow : Allow an outgoing call.**

3. To save, press .

SECURITY FEATURES

INCOMING CALL HISTORY

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict access to incoming call history.**
- **Allow : Allow access to incoming call history.**

3. To save, press .

OUTGOING CALL HISTORY

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict access to the outgoing call history.**
- **Allow : Allow access to the outgoing call history.**

3. To save, press .

MENU

Blocks access to the menu to prevent any changes.

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict access to the menu.**
- **Allow : Allow access to the menu.**

3. To save, press .

SECURITY FEATURES

PHONEBOOK

Blocks access to, and protects data in your phonebook.

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict access to the phonebook.**
- **Allow : Allow access to the phonebook.**

3. To save, press .

DATA CALL

Restricts data calls from being placed.

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict a data call.**
- **Allow : Allow a data call.**

3. To save, press .

SECURITY FEATURES

900#S

Restricts calling 900 dial service numbers.

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict a 900-dial service.**
- **Allow : Allow a 900-dial service.**

3. To save, press .

NOTE: "This phone is restricted" appears on the display when you attempt to make a restricted call.

LONG DISTANCE

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

1. Press then enter "PASSWORD."
2. Press then select "Allow" or "Restrict" with the navigation key.

- **Restrict : Restrict a long distance call.**
- **Allow : Allow a long distance call.**

3. To save, press .

NOTE: A phone number over 8 digits is restricted.

SECURITY FEATURES

SPECIAL #'s

Stores 3 phone numbers to allow to be dialed even in rock mode.

1. Press then enter "PASSWORD."
2. Press then select one from three blanks with the navigation key
3. Press and input a phone number
4. Press again to save it.

CLEAR PHONEBOOK

Clears all phonebook entries.

1. Press then enter "PASSWORD."
2. Press .

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

3. Select "Yes" or "No" with the navigation key.
Press .

SECURITY FEATURES

RESET PHONE

Resets phone to default settings.

1. Press    then enter "PASSWORD."
2. Press  .
3. Select "Yes" or "No" with the navigation key.
Press  .

● **When you select "Yes", "Powering off Good bye!" appears and the phone will automatically reboot.**

CHANGE PASSWORD

Changes password.

1. Press    then enter "PASSWORD."
2. Press  .

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

3. Enter a new password, then press  .
4. Enter the new password again, then press  .

Chapter 6 SUPPLEMENTARY FUNCTIONS

This chapter addresses supplemental functions including the schedule, calculator, clock and stopwatch features.

- Schedule
- Calculator
- World Clock
- Stopwatch

SCHEDULE

Reminds you of a previously scheduled event or anniversary with an alarm.

EVENT

1. To display a calendar, press    .
2. Use the navigation key to choose a date in the calendar, then press .

- **Day to Day movement:** Press the navigation key left and right.
- **Week to Week movement:** Press the navigation key down and up.

- 3.1. To set a time for an event, press .

- **Choose one of the following in the first line (On time, 10 Min before, 30 Min before, 1 Hour before, No alarm)**
- **To change the date and time in the second line by moving to year, month, day, time input with the navigation key.**

- 3.2. To set a melody for the event, press .
- 3.3. To set a message for the event, press .
4. Press  to save it or  to return to the calendar.
5. "Save complete" appears. When you return to the calendar the day will be highlighted.

SCHEDULE

ALARM

1. To display three alarm entries, press   .
2. Select one of the entries with the Navigation key.
3. To edit the existing alarm or set a new alarm, press .
- To delete the existing one, press .

- 4.1. To set a time, press .

- **Choose an alarm frequency. (Once, Daily, Weekly, Monthly, Yearly) with the Navigation key .**
To save, press .

- 4.2. To set a melody, press .
- Select one, then press .
- 4.3. To set a message, press .
- 4.4. To set a snooze, press .
- Select one, then press .

CALCULATOR

CALCULATOR

Allows you to use the CDM-8500 as a calculator to perform basic mathematic functions (addition, subtraction, multiplication, division).

1. Press then for CALCULATOR.
2. Use the keypad to enter the numbers to be calculated.
3. Follow the instructions below to calculate $(8*6)/4-2.5$

- Input 8

Move the navigation key left
Input 6 and press the navigation key
Move it right
Input 4 and press the navigation key
Move it down
Input 2 and press to input(.)
Press 5, then .

4. To reset, press .

NOTE: 1. *Up to 10 integer digits and up to 2 decimals can be displayed. If the calculated result has more than 10 digits, the result is displayed in 10 digit logarithm.*
2. *There is no (-) sign. To express a negative number, use '0-value'.*

WORLD CLOCK

WORLD CLOCK

Displays the time in a pre-programmed specific city.

1. Press then for WORLD CLOCK.
2. Select a city with the navigation key.
3. The world map appears with the city, its date and time. Select another city using the navigation key.
4. Press to return to the Tools Menu.

STOPWATCH

STOPWATCH

Allows you to use your phone as a stopwatch.
The stopwatch displays time in hours, minutes, seconds,
and 1/100 of a second.

1. Press   then  for STOPWATCH.

2. To measure a time period.

- To start the stopwatch, press .
- To pause it, press .
- To reset it, press .
- Press  to resume it or  to return to the previous page.

3. To measure more than one timed event:

- **To start, press .**
- **To stop a time period and continue measuring another one, press .**
- **To stop the second and continue measuring a third one, press .**
- **And keep repeating the above to measure up to 6 time periods.**
- **Press  to stop it and  to view the results.**
- **Press  or  to return to the stopwatch.**
- **To reset it, press .**

Chapter 7

VOICE MAIL AND TEXT MESSAGES

This chapter addresses checking voice mail messages,
as well as sending and receiving text messages.

- Two-Way SMS
- Checking Messages
- Sending Text Messages
- Inbox
- Outbox
- Filed
- Erase All
- Settings

TWO-WAY SMS

Your CDM-8500 features Two-Way Short Message Service (SMS). This feature sends and receives text messages through your phone. Voice mail notification is also supported.

MESSAGE INDICATORS

The following symbols indicate the status of message received by your phone. These symbols appear for voice mail and text messages.



: Text Message



: Voice + Text Mail Message



: Voice Mail Message

RECEIVED MESSAGE NOTIFICATION

When your phone receives a message, the screen displays the number of new text messages and voice mail messages.

1. To display the received message, press the key under

CHECKING MESSAGES

CHECKING RECEIVED VOICE MAIL MESSAGE

1. Press , then press for Voice Mail.
2. The number of voice mail messages currently waiting in your mailbox appears. To access your voice mailbox, press

CHECKING RECEIVED TEXT MESSAGE

1. Press , then press "Inbox".
2. Highlight the message you want to view and press . The text message is displayed.
3. To view the inbox message menu, press then you can reply, erase, forward, save, save address, lock & unlock the message.

SENDING TEXT MESSAGES

SENDING NEW TEXT MESSAGES

1. Press  then press  "SEND NEW".
2. Input phone number, then press .
3. Input the text message, then press  to display the send new menu.

SEND

1. To send the text message, press  or  "SEND".

NOTE: *If the message failed to reach the other party, the display will read "Delivery Failed. Retry in 3 mins?". Press YES to have the phone automatically send the message again.*

EDIT RECIPIENT

1. To change the recipient, press  "EDIT RECIPIENT".
2. Input the phone number, then press .

SENDING TEXT MESSAGES

EDIT MESSAGE

1. To change the text message, press  "EDIT MESSAGE".
2. Input text message, then press .

PRIORITY

1. To send an urgent message, press  "PRIORITY".
2. Select the priority (NORMAL/URGENT) by using the navigation key, then press .

CALL BACK

1. To change the call back number, press  "CALL BACK".
2. Input call back number, then press .

SAVE

1. To save the text message, press  "SAVE".

REQUEST DELIV. ACK

1. To be notified that the recipient received your message, press  "REQUEST DELIVERY ACK".

INBOX

INBOX MENU

To enter the INBOX menu, follow the procedures for CHECKING RECEIVED TEXT MESSAGES on page 101.

REPLY

1. To reply to the text message, press  "REPLY".
2. Enter your message, then press .

ERASE

1. To erase the text message, press  "ERASE".
2. To erase the message from your Inbox, press .

FORWARD

1. To forward the text message, press  "FORWARD".
2. Input the phone number of the person you will send the message, then press .
3. Input any text message to go along with the forwarded message, then press .

SAVE

1. To save the text message in your phone, press  "SAVE".

INBOX

SAVE ADDRESS

1. To save the Callback number from the text message, press  "SAVE ADDRESS".
2. To save the call back number into a memory location, follow the procedures for STORING PHONE NUMBERS on page 32.

LOCK & UNLOCK

1. To lock or unlock the text message, press  "LOCK/UNLOCK".
2. Select LOCK to lock the message or UNLOCK to unlock the message, then press .

OUTBOX

OUTBOX MENU

1. To enter the OUTBOX menu, press  then  "OUTBOX".
2. Select the stored message then press .
The text message will be displayed then .
3. To enter the OUTBOX menu, press  then you can resend, erase, send to, save, and display the message state.

RESEND

1. To send the message again, press  "RESEND".

ERASE

1. To erase the message, press  "ERASE".
2. Select "Yes" or "No" with  or .

SEND TO

1. To send the message to the other person, press  "SEND TO".
2. Input the phone number, then press .
3. Modify the message, then press  to display the "Send New Message" menu.

OUTBOX

SAVE

1. To save the message, press  "SAVE".
2. Press .

STATE

1. To display the state of the sent message, press .

FILED

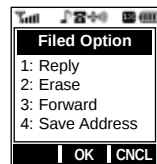
FILED

When there is the saved message from the Inbox/Outbox.

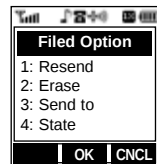
1. Press  and  .
Select a text message with the navigation key.
Press .

2. The text message appears.
Press  to display OPTS.

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



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



4. Select one by pressing .

ERASE ALL

ERASE MESSAGES

1. Press  and .

- 2.1. To erase messages in the Inbox, press .

NOTE: Select “Entire Inbox” or “Old Inbox”.

- 2.2. To erase messages in the Outbox, press .

- 2.3. To erase messages in the Filed, press .

3. Select “Yes” by pressing  .
Select “No” by pressing .

SETTINGS

SETTINGS MENU

1. To enter the SETTINGS menu, press  then  "SETTINGS".

SAVE SENT MESSAGE

1. Press  "SAVE SENT MSG?".
2. Select (NO/YES/PROMPT) using the navigation key, then press .

DEFAULT CALLBACK

1. Press  "DEFAULT CALLBACK".
2. Input the Callback number, then press .

ALERT

1. Press  "ALERT".
2. Select the alert type (RINGER/VIBRATE/SILENT/ RINGER & REMIND/VIBRATE & REMIND) using the navigation key, then press .

SETTINGS

DISPLAY DELIV.ACK

1. Press  "DISPLAY DELIVERY ACK".
2. Select (NO/YES) using the navigation key, then press .

AUTO ERASE

1. Press  "AUTO ERASE".

AUTO ERASE INBOX

1. Press .
2. Select (DISABLE/OLD INBOX) using the navigation key, then press .

AUTO ERASE OUTBOX

1. Press .
2. Select (DISABLE/OLD OUTBOX) using the navigation key, then press .

ENTRY MODE

1. Press  "ENTRY MODE".
2. Select (ALPHA MODE/T9 MODE) using the navigation key, then press .

MEMO

Chapter 8

MAKING AN EMERGENCY CALL

EMERGENCY CALLING

E911 CALLING

Allows you to place emergency calls, even when the phone is locked. Emergency calls are placed on any available system.

1. Enter 911 and press  .
2. The call will connect.

● ***When an emergency call ends, the phone goes to the Emergency Mode for 5 minutes.***

Chapter 9

INTERNET BROWSER

This chapter addresses using your handset to access the Wireless Internet.

- Start Internet Browser
- Browser Menu

START INTERNET BROWSER

WIRELESS INTERNET

Your CDM-8500 allows you to browse various Internet websites directly from your phone. This provides access to up-to-date information such as news, sports, weather and stock quotes when you subscribe to Internet service with your service provider. Please contact your service provider for a list of available websites and service details.

1. To access the Wireless Internet Network, press .

● **You can access the Internet through your phone when it is in digital mode, as indicated by the  or  symbol on your phone's display.**

2. The Internet browser will launch.
3. Scroll the page using .
4. To select the softkey at the bottom of the display, press  or .
5. To return to the previous page, press .
6. To exit the Internet, press .

BROWSER MENU

BROWSER MENU

1. To enter the browser menu, press and hold .

RELOAD

Reloads current page.

1. To select Reload, press .

HOME

Displays Home Page.

1. To select Home, press .

BOOKMARKS

Displays Bookmark list.

1. To select Bookmarks, press .

MARK SITE

Adds a web page to bookmark list.

1. To select Mark Site, press .

BROWSER MENU

ABOUT OPENWAVE

When you select the About Openwave of the Browser Menu, the browser version and copyright information is displayed. The device layer version is also displayed.

1. To select About Openwave, press **5_{URL}** .

ADVANCED

Displays Advanced Menu options.

1. To select Advanced, press **6_{WHI}** .

● SHOW URL

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

1. To select Show URL, press **1_→** .

● HOMEPAGE

Enables you to change the homepage.

1. To select Homepage, press **2_{ARC}** .

● SET WAP PROXY

Enables you to select another WAP PROXY.

1. To select Set UP.Link, press **3_{DEF}** .

BROWSER MENU

● OFFLINE SERVICES

1. To navigate through the list of installed channel applications and guide you to the entry point of the applications, press **4_{OK}** .

● OUTBOX

1. To display the number of items that are delivery-pending and how long they have been there, Press **5_{URL}** .

● 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 **6_{WHO}** .

● ENCRYPTION

Displays a list of security-related items.

1. To select Encryption, press **7_{PROS}** .

Selecting the encryption item of browser menu displays a list of security-related items.

MEMO

Chapter 10

DATA SERVICE

Your phone works as wireless modem when connected to a PC and a Laptop computer with data interface cable.
This chapter shows you how to choose the correct settings for this to properly function.

- Data SVC
- Location

DATA SVC

CONNECTION

Select a connection mode based on the handset usage.

1. Press   .
2. Select one of the following connection modes with the navigation key.

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

3. To save, press .

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

DATA SVC

DATA SPEED

Select a connection speed based on the handset usage.

1. Press   .
2. Select one of the following connection modes with the navigation key.

- **19200 BPS**
- **115200 BPS**
- **230400 BPS**

3. To save, press .

LOCATION

SETTING

To select whether or not you allow the network system to detect your position.

1. Press   .
2. Select "Location On" or "911 Only" with the navigation key.

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

Chapter 11

SAFETY INFORMATION

- Safety Information for Wireless Handheld Phones
- Safety Information for FCC RF Exposure
- SAR Information
- FDA Consumer Update

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 88 (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).

*;
American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Nonionizing Radiation Protection.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

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.

PHONE OPERATION

Normal Position: Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

Tips on efficient operation:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

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 require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Most modern electronic equipment is shielded from RF energy. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone.

Pacemakers

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

If you have a pacemaker:

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

Hearing Aids

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

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

ELECTRONIC DEVICES

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

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

Vehicles

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

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.

Posted Facilities

Turn your phone OFF where posted notices so require.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OTHER SAFETY GUIDELINES

Aircraft

FCC Regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

Blasting Areas

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

Potentially Explosive Atmospheres

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

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

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

PRECAUTIONS AND WARNINGS

Please read and understand all of the Precautions and Warnings contained in this manual before attempting to operate your phone.

1. DO NOT use this equipment in an extreme environment where high temperature or high humidity exists, such as near a heater or in a closed car parked in the sun.
2. DO NOT abuse the equipment. Avoid striking, shaking or shocking. When not using the unit, lay down the unit to avoid possible damage due to instability.
3. DO NOT expose this equipment to liquids such as rain or spilled beverages.
4. DO NOT use unauthorized accessories. Use of unauthorized accessories may result in fire, electric shock or other bodily injury.
5. DO NOT disassemble the phone or its accessories. If service or repair is required, return the unit to an authorized Audiovox service center. If unit is disassembled, the risk of electric shock or fire may result.
6. DO NOT short-circuit the battery terminals with metal items etc.
7. DO NOT use harsh chemicals, cleaning solvents or strong detergents to clean this phone. Always clean it with a soft, damp cloth.
8. DO NOT paint this phone. This can clog moving parts.

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

OPERATING PROCEDURES

Never violate any of the following Rules and Regulations of the FCC when using your phone. The following offenses are punishable by fine, imprisonment, or both:

- Using obscene, indecent, or profane language.
- Using the unit to give off false distress calls.
- Wiretapping or otherwise intercepting a telephone call, unless that person has first obtained the consent of the parties participating in the call.
- Making anonymous calls to annoy, harass, or molest other people.
- Charging to an account without authorization to avoid payment for service.
- Refusing to yield a party line when informed that it is needed for an emergency call (It is also unlawful to take over a party line by stating falsely that it is needed for an emergency).

SAFETY INFORMATION FOR FCC RF EXPOSURE

WARNING! Read this information before using your phone

CAUTION

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

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

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

Body-worn Operation (Holster Part Number : 2H020665002)

This device was tested with holster (Part No:2H020665002) for body-worn operation with the back of the phone kept 0.59 inches (15mm) from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 0.59 inches (15mm) must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. All belt-clips, holsters and similar accessories used by this device must not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with FCC RF exposure limits and should be avoided.

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

SAR INFORMATION

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

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

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

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 1.15 W/kg and when worn on the body,

SAR INFORMATION

as described in this user guide, is 0.633 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 FCC ID PP4TX-50C.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) web-site at <http://phonefacts.net>.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.



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

1. Do wireless phones pose a health hazard?

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

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

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

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;

- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

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

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

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

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

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

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

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

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

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

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

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

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators.

The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

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

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

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

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," sets forth the first consistent test

methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

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

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

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

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

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and

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

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI.

FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that that no interference occurs when a person uses a "compatible" phone and a "compatible" hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

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

MEMO

Chapter 12

WARRANTY

- Protect Your Warranty
- 12 Month Limited Warranty

PROTECT YOUR WARRANTY

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

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

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



AUDIOVOX COMMUNICATIONS CORP.

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16808 Marquardt Avenue, Cerritos, California 90703, 562-802-5100

AUDIOVOX COMMUNICATIONS CANADA CO.

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

12 MONTH LIMITED WARRANTY

AUDIOVOX COMMUNICATIONS CORP. (the Company) warrants to the original retail purchaser of this Audiovox Handheld Portable Cellular Telephone, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within the first twelve (12) month period from the date of purchase, such defect(s) will be repaired or replaced (with new or rebuilt parts) at the Company's option, without charge for parts or labor directly related to the defect(s).

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

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

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;

12 MONTH LIMITED WARRANTY

- (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 or purchase for repair or replacement processing. In addition, for reference to an authorized Warranty station in your area, you can telephone in the United States (800) 229-1235, and in Canada (800) 465-9672 (in Ontario call 905-712-9299).

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

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY MUST BE BROUGHT

12 MONTH LIMITED WARRANTY

WITHIN A PERIOD OF 18 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER. THE COMPANY SHALL NOT BE LIABLE FOR THE DELAY IN RENDERING SERVICE UNDER THIS WARRANTY OR LOSS OF USE DURING THE TIME THE PRODUCT IS BEING REPAIRED OR REPLACED.

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

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

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