

TDM-2500 TDM-2500XL

TDM-2500 TDM-2500XL

DUAL BAND DIGITAL PCS TELEPHONE



AUDIOVOX



AUDIOVOXTM
COMMUNICATIONS CORP.

555 Wireless Blvd. Hauppauge, NY, 11788
516-233-3300 • <http://www.audiovox.com>

Part #9AB0018A1A

OWNER'S OPERATING MANUAL



AUDIOVOXTM
COMMUNICATIONS CORP.

First Edition 1999

This manual is published by Audiovox Communications Corporation, without any warranty. Improvements and changes to this manual necessitated by typographical errors, inaccuracies of current information, or improvements to the programs and/or equipment may be made by Audiovox Communications Corporation, at any time and without notice. Such changes will, however, be incorporated into new editions of this manual.



Printed on recycled paper

Table Of Contents

Safety Information	5
Phone Overview	11
1. Getting Started	12
Charging the Battery	12
Attaching the Battery	14
Connecting the Charger to the Phone	14
Turning the Phone ON	15
Antenna Caution	16
2. Display and Keypad	17
Display Indicators	17
Indicator Light	18
Key Functions	19
3. Making and Receiving Calls	21
Making and Ending a Call	21
Speed Dialing	21
Last Number Redial	22
Automatic Redial	22
One Touch Dialing	22
Answering a Call	23
Making an Emergency Call	24

Key Lock	24
Add 1 Before Dialing	25
Network Features	25
Call Waiting	25
Calling Line Identification	26
4. Useful Information While Talking	27
Changing the Volume While Talking	27
Using the Phone as a Scratch Pad	27
Sending Tone Signals	28
Checking Time of Calls	30
Viewing Last Dialed Number	30
5. Voice and Text Messages	31
Voice Messages	31
Text Messages	32
One Touch Call Back	33
6. The Menu System	35
Changing Settings	35
Menu Overview	35
NAM Selection	50
7. Storing and Recalling Numbers	51
Storing a Number/Name in Memory	51
Deleting a Number from Memory	52

Specifying a Memory Location	53
Storing a Number in Secure Memory	54
Recalling Stored Numbers	55
Recalling Stored Names	55
Recalling Unanswered Numbers	56
Recalling Received Numbers	57
8. Problems You Can Solve	59
9. Accessories	63
Index	68

SAFETY INFORMATION FOR WIRELESS HANDHELD PHONES

WARNING! Please do not use your Audiovox wireless telephone if you may be distracted from another activity (such as driving a motor vehicle or walking across the street) and create a safety hazard to yourself and others. Use your wireless telephone responsibly. Be alert to your surroundings whenever you operate your wireless telephone.

For the safe and efficient operation of your phone, observe the following guidelines:

EXPOSURE TO RADIO FREQUENCY SIGNALS

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

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

ANSI C95.1 (1992)*

NCRP Report 86 (1986)*

ICNIRP (1996)*

*American National Standards Institute; National Council on Radiation Protection and Measurements; International Commission on Non-ionizing Radiation Protection

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 (C95.1).

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

ANTENNA CARE

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

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: For your phone to operate most efficiently:

- 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

Check the laws and regulations on the use of wireless telephones in the areas where you drive. Always obey them. Also, if using your phone while driving, please:

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

ELECTRONIC DEVICES

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

Pacemakers

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

Persons with pacemakers:

- Should ALWAYS keep the phone more than six inches from their pacemaker when the phone is turned ON

- Should not carry the phone in a breast pocket
- Should use the ear opposite the pacemaker to minimize the potential for interference
- If you have any reason to suspect that interference is taking place, turn your phone OFF immediately.

Hearing Aids

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

Other Medical Devices

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

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

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should

also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

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 gasoline 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 engine.

For Vehicles Equipped with an Air Bag

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

Phone Overview

Express Key

Left for Memory Menu.
Right for Main Menu.
Up for Text Message mailbox.
Down for Voice Mail mailbox.
Moves cursor between options.

SEND

Places and receives calls.
Answers second incoming call.

ENTER

Selects desired menu option.
Enters a character during Edit mode.

Main Display

Current status of phone.

ON/OFF END

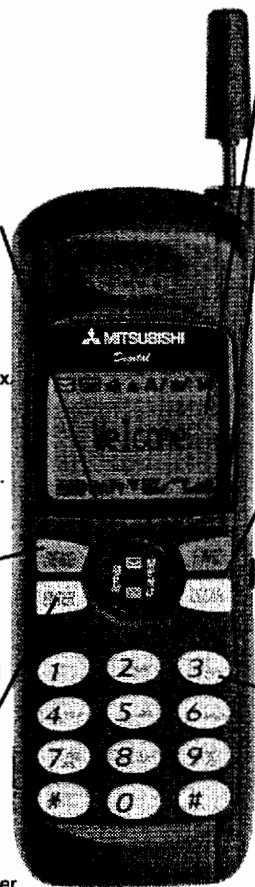
Turns phone on and off.
Terminates calls.
Exits menu functions.
Mutes ringing for incoming calls.

CLEAR

Returns to previous menu.
Deletes a digit or character in Edit mode.

Numeric Keys

Enter telephone numbers, memory location numbers, and alphanumeric information.



1. GETTING STARTED


Charging the Battery

The battery must be fully charged before using your phone for the first time. If it is a new battery, 3 complete charge and discharge cycles must be performed to ensure peak operation.

- 1) Make sure the battery is properly installed on your phone.

Refer to Attaching the Battery on page 14 for more information.



- 2) Connect the charger to a standard 120 volt outlet. The Battery Level Indicator  flashes during charging.
- 3) Disconnect the charger when the *Battery Full* message displays.

Prolonging the life of your battery

- Allow your battery to discharge fully once a week. A charged battery discharges on its own after one month of no use.
- To discharge the battery, leave the phone on until it shuts itself off.
- If you do not plan to use your phone for more than a month, remove the battery and store it in a cool, dry place.

Charging Times

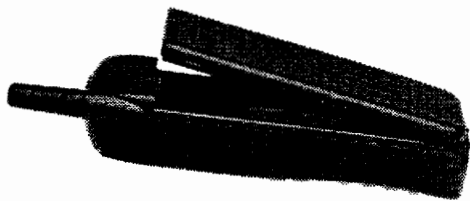
The following table shows the approximate battery recharging times using the AC Rapid Charging Adapter.

Battery	Charge
Slim NiMH	120 min.
Vibrating NiMH	120 min.
Extended Life NiMH	200 min.

- Battery charging suspends when a call is in progress.
- The NiMH battery performance varies with the condition and history of the battery.


Attaching the Battery

- 1) Insert the bottom of the battery into the recess on the back of the phone.
- 2) Push inward until the locking catch snaps securely into place.



- To remove the battery, turn your phone off. Pull up the locking catch and remove the battery.

Connecting the Charger to the Phone


When the battery needs to be recharged, 3 short tones sound. The *Low Battery* icon  and message flash on the display.


- 1) Connect the charger to the socket at the base of the phone.
- 2) Connect the charger to a standard 120 volt outlet. The battery begins charging when the charger is connected to the phone.



- If the phone is left on despite a low battery alarm, the phone automatically shuts itself off to protect the battery from over-discharging.

Turning the Phone ON

Press  for 1 second to turn your phone on. When you turn the phone on, a tone sounds and the display backlighting comes on.

To turn your phone off, press and hold  for 1 second.

- If a *Locked* message appears when you turn your phone on, enter your preset 3-digit unlock code.

- If the *No Service* message appears on the display, then you cannot make or receive calls.

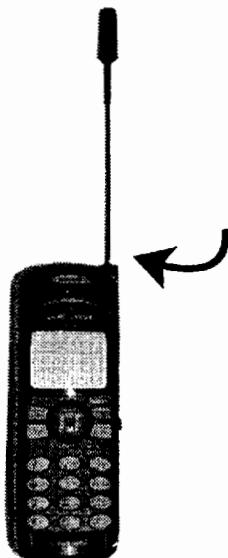
Refer to *Problems You Can Solve on page 59* for more information about display messages.

Note: Make sure the battery is fully charged before turning your phone on for the first time.

Antenna Caution

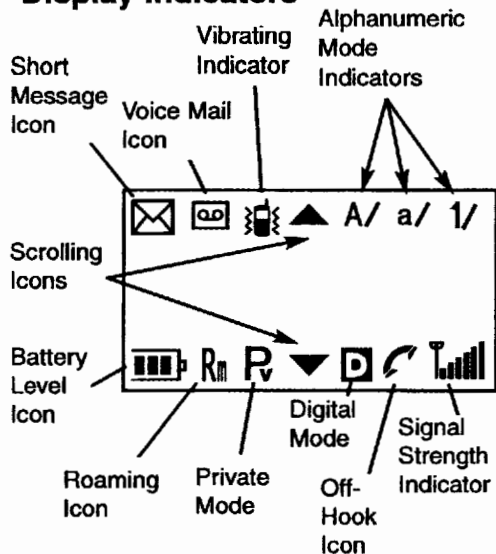
Your phone's antenna locks when it is extended fully.

To unlock the antenna, hold it near the base and push down until it releases. Then slide the antenna up or down.



2. DISPLAY AND KEYPAD







Display Indicators



The Battery Level Icon shows the power level of the battery in 3 levels.

This icon appears empty and flashes repeatedly when the battery is nearly depleted.

Rn When roaming outside of your home service area, either the Roaming icon or *Extended Area* message will be displayed, depending on how roaming works with your service provider.





-  The Short Message Icon appears when there is a text message waiting.
-  The Voice Mail Icon appears when there is a voice mail message waiting.
-  The Off-Hook Icon appears when the line is in use.
-  The Signal Strength Indicator shows the connection strength in 6 levels.
-  The Digital Mode Indicator appears when your phone is using a digital system.
-  The Vibrating Indicator appears when the vibrating feature is turned on in the phone's Ringer settings.
- A/** The Uppercase Indicator appears when the phone is in the upper case text entry mode.
- a/** The Lowercase Indicator appears when the phone is in the lower case text entry mode.
- 1/** The Numeric Indicator appears when the phone is in the numeric text entry mode.
- P** The Private Mode Icon appears when you are using private network channels.

Indicator Light

The backlight illuminates the keypad and LCD display for 10 seconds each time you press a key.

Key Functions

Each of the following keys allows you to perform numerous functions on your phone.

-  Enters the Text Messages menu in Standby mode.
Moves the cursor up 1 item in Menu mode.
Increases the volume during a conversation.
Moves the cursor up 1 line in Edit mode.
-  Dials the Voice Mail Center in Standby mode.
Moves the cursor down 1 item in Menu mode.
Decreases the volume during a conversation.
Moves the cursor down 1 line in Edit mode.
-  Enters Menu mode from Standby and Conversation mode.
Selects a menu item in Menu mode.
Moves the cursor to the right in Edit mode.
-  Enters the Memory menu in Standby and Conversation mode.
Returns to the previous menu in Menu mode.
Moves the cursor to the left in Edit mode.

SEND

Places and receives calls.
Answers second incoming call.

ON/OFF

END

Turns the phone on and off.
Terminates calls and exits menu functions.

Mutes ringing when a call is being received.

ENTER

Makes a selection or moves to the next selection during Menu mode.
Enters a character during Edit mode.

CLEAR

Cancels a menu selection and returns to the previous menu in Menu mode.
Deletes a digit or character during Edit mode.

3. MAKING AND RECEIVING CALLS

Making and Ending a Call

- 1) Press **ON/OFF** **END** for at least 1 second to turn your phone on.
 - If a *Locked* message appears on the display, enter your 3-digit unlock code.
- 2) Enter the number you wish to dial.
- 3) Press **SEND**. The Talk Timer appears when your call connects.
- 4) Press **ON/OFF** **END** when your call is finished.

Speed Dialing

Speed Dialing is an easy way to dial stored numbers. You can store up to 99 names and numbers for speed dial on your phone. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

- 1) Enter the memory location for the number you wish to dial.
- 2) Press **SEND**. The phone automatically dials the number.
 - For memory addresses 0-9, you can press and hold the memory location number to dial the number.

Last Number Redial

Your phone can store up to 10 of the most recently dialed numbers.

- 1) Press **SEND** to view the last dialed number.
- 2) Press UP and DOWN to scroll through the last 10 dialed numbers.
- 3) Press **SEND** to dial the number.

Automatic Redial

Use Automatic Redial to redial a call when your phone is unable to access the cellular system. The call will be redialed every 3 seconds for a total of 10 times until the call connects.

- 1) Press **MENU** **END** **2nd** **T** (Call Set - AutoRedial - ON).

This enables Automatic Redial. The phone retries the number.

- 2) Press **END** to return to Standby mode.
 - If 10 attempts to connect a call are not successful, a fast busy tone sounds.

One Touch Dialing

Use One Touch Dialing to call frequently dialed numbers, such as an answering machine or voice mail. To use this feature, you must first store the number in the phone's memory. *Refer to Storing a*

Number and Name in Memory on page 51 for more information about storing numbers.

To perform One Touch Dialing:

- 1) Enter the memory location (0-9) for the number you wish to dial and hold for at least 1 second.
 - **0** is reserved for operator calls.
 - An *Empty* message flashes if a number is not stored in the memory location.

Answering a Call

Your phone accepts incoming calls when the battery is charged and *No Service* does not appear on the display. When there is an incoming call, a ringing tone sounds and *Call* flashes on the display.

- 1) Press any key except **END** to answer a call.
- 2) Press **END** when the call is finished. The Talk Timer appears on the display until your call ends.
 - When incoming calls are left unanswered, the ringing volume gradually increases until you answer the call.
 - To mute the Ringing Tone for an incoming call, press **END**. You can answer calls when the ringer is muted.

Making an Emergency Call

Your phone can store 2 emergency numbers. An emergency 911 number is pre-programmed into the phone. Contact your network service provider for information about programming a second emergency number.

You can dial emergency numbers even when call restrictions are activated or if the phone is locked. (See Menu 7 on page 49. This is different than Key Lock which just locks the keypad.)

You cannot make emergency calls when Key Lock is turned on.

Key Lock

Key Lock is used to prevent accidental key entry, such as when your phone is in a handbag or briefcase. You can receive calls when Key Lock is on, but you cannot make calls.

To turn Key Lock on:

- 1) Turn your phone on.
- 2) Press **ENTER** for more than 1 second and *Key Locked* appears on the display.

To turn Key Lock off:

- 1) Press **MENU** and **ENTER**.
- Key Lock automatically turns off when there is an incoming call and re-activates when the call ends.

Add 1 (for long distance) Before Dialing

This feature is useful if you need to add 1 to the number in a memory location in order to make a long distance call.

- 1) Enter the number you wish to dial.
- 2) Press **MENU** **SEND** (1+Dialing)
- 3) Press **SEND** to place the call.

Network Features

The following features are supported by your phone, but may not be supported by your network service provider:

- Call Waiting
- Caller ID

Use the **SEND** key as the Hook-Flash button for these features. The Hook-Flash button is used to toggle between active phone calls.

Call your network service provider for detailed instructions on using these features.

Call Waiting:

If this feature is available from the network, then your phone is capable of receiving a second call while another call is in progress.

- 1) When a second call is received during a conversation, *Call* flashes on your display.

- 2) To answer the second call or to switch between calls, press **SEND**.
- 3) If you do not want to answer the incoming call, do not press any key.

Calling Line Identification:

Your phone has Caller ID. When a second call is received, the name and number of the incoming call display (if available from network).

- *This function may not work on an analog network.*

4. USEFUL INFORMATION WHILE TALKING

Different menu items appear on the display during conversation mode so that you can mute calls, select the Silent Scratch Pad, and send Dual Tone Multi-Frequency tones.

Changing the Volume While Talking

Press **UP** or **DOWN** to adjust the earpiece volume during a conversation.

To Mute Calls:

- 1) Press **MENU** **(M)** (Mute).

The phone's microphone is turned off and the call is put on hold.

- You can also press and hold **MENU** during a conversation to mute the call.



To End Muting:

- Press any key except **END** to return to the conversation.

Using the Phone as a Scratch Pad

The Silent Scratch Pad allows you to use the phone as a memo to store numbers during a conversation. When the Silent Scratch Pad is turned on, the tones made by pressing the number keys do not sound.

- 1) Press **MENU** **(SPAD)** (Silent Pad).

- 2) Enter a number you wish to store in memory.
After your call ends, the number appears on the display.
- 3) Press **MEM**  (Mem Store) to store the number.
- To turn the Scratch Pad off during a conversation, press **MENU**  (Silent Pad). The Silent Scratch Pad will be turned off.

Sending Tone Signals


You can send Dual Tone Multi-Frequency (DTMF) tones to communicate with computerized systems, such as answering machines, voice mail or banking by phone.

A DTMF is a digit or a string of digits that produces tone signals—the sounds created when you press the keys on your phone's key pad.




You can store DTMF strings the same way you store phone numbers. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

- DTMF tones are enabled only when the Silent Scratch Pad is off.


To send a DTMF manually:

- 1) During a conversation, recall a DTMF string from either last dialed memory or memory location.
- 2) Press **MENU**  (Send DTMF).
- Make sure No Restrict or Local Only is selected in the Call Restriction menu. *Refer to the Security Menu on page 45 for more information about call restrictions.*

To recall DTMF from memory:

- 1) Enter the number you wish to dial.
- 2) Press **MENU**  (MemoryLink).
- 3) Enter the memory location for the DTMF string you want to send.
- Repeat steps 2 and 3 to send additional DTMF tones.
- 4) Press  to dial the number.
- 5) After the call connects, press  to transmit each DTMF string.

To use DTMF as a pause function:

- 1) Enter the number you wish to dial.
- 2) Press **MENU**  (Pause).
- 3) Enter the DTMF string you want to send.

- Repeat steps 2 and 3 to send additional DTMF tones.
- Press **SEND** to dial the number.
- After the call connects, press **SEND** to transmit each DTMF string.

Checking Time of Calls

The Talk Timer keeps track of the elapsed time of a conversation. You can also view the Operating, Total, and Last Talk Time in Standby mode.

- Press **MENU** **2** (Talk Time).
 - Select one of the following options:
 - Press **1** for the Last Talk Time.
 - Press **2** for the Total Talk Time.
 - Press **4** for the Total Operating Talk Time.
 - Press **END** to return to Standby.
- Refer to the *TimerReset* menu option on page 49 to reset the Talk Timer.

Viewing Last Dialed Number

- Press **MEM** **1** (Last Dial).

The 10 last dialed numbers appear in order of most to least recent calls.
- Scroll UP or DOWN to select a number.
- Press **SEND** to dial the number.
- Press **CLEAR** or **END** to exit the menu.

5. VOICE AND TEXT MESSAGES

Voice Messages

Your phone can receive voice messages when this service is available from your network service provider. When you receive a voice mail message, the Voice Mail Indicator appears on the display and a message received tone sounds.

- This function may not work on an analog network.*

To retrieve voice messages:

- Press DOWN.
- Press **SEND**. The phone will initiate a call to the Voice Mail Center.

For quick voice message access:

- Press and hold DOWN for 1 second. The phone automatically dials the Voice Mail Center.
- If you did not enter a Voice Mail Center number, then *No Voice Mail Center Number* flashes on the display.

To enter a Voice Mail Center number:

- Press DOWN.
- Press **MENU**.

- 3) Press **(1)** (Yes) and **(ENTER)** to edit the number.
- 4) Enter the Voice Mail Center number and press **(ENTER)**.

Text Messages

Your phone can receive short text messages of up to 2400 characters when your network service provider supports this feature. Contact your network service provider for detailed information about short message service.

- *This function may not work on an analog network.*

To access the text message mailbox:

- 1) Press UP.

Each message in the mailbox displays a message state, sender address, time/date stamp, and message heading.

- There are 6 possible message indicators:

Emergency	shows unread Emergency Message.
!!	shows read Emergency Message.
-Urgent-	shows unread Urgent Message.
!	shows read Urgent Message.
-Unread-	shows unread Normal Message.
(Blank)	shows read Normal Message.

- If no messages are stored, a *No Messages!* message will display for 1 second.

To view your messages:

- 1) Press UP.
- 2) Scroll to the previous or next message by using UP or DOWN.
- 3) Press RIGHT or **(ENTER)** to select a message.
- 4) Scroll through the message 1 line at a time by pressing UP or DOWN.
- 5) Press **MENU** or **(ENTER)** to enter the message into the In-Box sub-menu and choose 1 of the following options:

Delete: Press **(1)** to confirm and erase the message

Call Back: Press **(2ND)** and **(SEND)** to call the party that sent you the message.

- 6) Press LEFT or **(CLEAR)** to exit.

One Touch Call Back

If a displayed message contains a call back number or an embedded telephone number, the phone will go into the standby mode and will display the number.

- *This function may not work on an analog network.*

- 1) Hold **SEND** for 1 second to dial the call back number.
- If multiple telephone numbers are provided or if no number is provided within the message, One Touch Call Back is not available.

6. THE MENU SYSTEM

The Menu System is where all of the feature and function settings for your phone are stored. Use the menu information in this section to customize your phone settings.

Changing Settings

Follow these guidelines to change the settings on your phone:

- 1) Press **MENU** to enter the main menu.
 - 2) Press **UP** and **DOWN** to scroll through the options.
 - 3) Press **ENTER** to select a menu option.
 - 4) Press **CLEAR** at any time to go back to the previous menu.
- You can also select menu options by pressing the number key that corresponds to the option.

Menu Overview

You can access all of the feature and function settings for your phone through the menu system.

- Settings are preserved when the phone is turned off.
- If you do not specify your phone's settings, then your network service provider's default settings will be used.

- Since the display can only show 4 menu items at a time, you will see an arrow pointing down under the last menu option if there are more than 4 menu options in the menu. Press DOWN at the fourth menu option to see the additional menu options.
- Press UP at the fifth menu option to go back to the first 4 menu options.
- You can always enter a menu option directly by pressing the number that appears to the left of the menu option.

The following list of menu options describes each feature's function and possible settings. Refer to *Changing Settings on page 35* for more instructions about changing the settings on your phone.

RINGER SETTINGS

MENU 1

The following menu options allow you to adjust the tone and volume for incoming calls and messages.

- Tones sound while adjusting volume and tone levels.
- To mute the Ringer or Message tones, select volume level 0.
- The Vibrator option only displays when the vibrating battery is installed.

1 Ring Vol.

Selects the ringing volume for incoming calls. There are 7 possible settings.

- 1) Press **MENU** **1** **1** (Ringer Set - Ring Vol.).
- 2) Press UP or DOWN to change the setting.
- 3) Press **ENTER** to select the setting.

2 Ring Tone

Selects type of ringing tone for incoming calls. There are 8 possible settings.

- 1) Press **MENU** **1** **2** (Ringer Set - Ring Tone).
- 2) Press UP or DOWN to change the setting.
- 3) Press **ENTER** to select the setting.

3 Msg Vol.

Selects the message tone volume for incoming messages. There are 7 possible settings.

- 1) Press **MENU** **1** **3** (Ringer Set - Msg Vol.).
- 2) Press UP or DOWN to change the setting.
- 3) Press **ENTER** to select the setting.

4 Msg Tone

Selects the type of ringing tone for incoming messages. There are 4 possible settings.

- 1) Press **MENU** **1** **4** (Ringer Set - Msg Tone).

2) Press UP or DOWN to change the setting.

3) Press **ENTER** to select the setting.

5 Vibrator

Selects method of incoming call alert. The settings for this feature are: Ring, Vibrate, and Both.

Note: Vibrating mode is only supported when the optional vibrating battery, VBT-P1, is attached.

1) Press **MENU** **1** **5** (Ringer Set - Vibrator).

2) Press UP or DOWN to change the setting.

3) Press **ENTER** to select the setting.

TALK TIMER MENU

MENU 2

The Talk Timer appears when a call connects. It shows the duration of the call in hours, minutes and seconds. You can view talk time for the most recent call or for all calls made or received in public and private network channels.

- Refer to the *TimerReset* menu option on page 49 to reset the Talk Timer.

1 Last Talk

Displays the talk time of the most recent call.

1) Press **MENU** **2** **1** (Talk Time - Last Talk).

2 Total Talk

Displays the talk time of all calls in Public mode.

1) Press **MENU** **2** **2** (Talk Time - Total Talk).

3 Private

Displays the talk time of all calls in Private.

1) Press **MENU** **2** **3** (Talk Time - Private).

4 Operating

Displays the total talk time since activation for all Number Assignment Modules.

1) Press **MENU** **2** **4** (Talk Time - Operating).

GENERAL SETTINGS

MENU 3

The General Settings menu includes Display Contrast, Language, and the Keypad Volume.

1 Contrast

Adjusts the display contrast.



1) Press **MENU** **3** **1** (General - Contrast).

2) Press UP or DOWN to adjust the contrast.

3) Press **ENTER** to select the setting.

2 Keypad Vol

Selects the keypad volume level. There are 7 possible settings.

1) Press **MENU**   (General - Keypad Vol).



2) Press UP or DOWN to change the setting.

3) Press  to select the setting.

- Tones sound while adjusting volume and tone levels.
- To mute the keypad volume select volume level 0.

3 Language

Select the language for message displays and menu options. There are 4 available languages to choose from: French, Portuguese, Spanish, and English.

1) Press **MENU**   (General - Language).

2) Press UP or DOWN to change the setting.

3) Press  to select the setting.



CALL SETTING MENU

MENU 4


The Call Setting menu includes Automatic Answer, Automatic Redial, Sending Your Phone Number, and Privacy mode.

1 AutoAnswer

Selects the length of time before your phone automatically answers incoming calls. This menu option can be set to answer a call after 5 seconds or after 10 seconds. You can also set this feature to OFF if you do not want the phone to automatically answer calls.




1) Press **MENU**   (Call Set - AutoAnswer).

2) Press UP or DOWN to change the setting.

3) Press  to select the setting.

2 AutoRedial

Use Automatic Redial to redial a call when your phone is unable to access the cellular system. The call will be redialed every 3 seconds for a total of 10 times until the call connects.

1) Press **MENU**    (Call Set - AutoRedial - ON).

This enables Automatic Redial. The phone retries the number.

2) Press  to return to Standby mode.

- If 10 attempts to connect a call are not successful, a fast busy tone sounds.

3 SendOwnNum

Determines if your phone number is sent to the person you are calling for display. This feature can be turned ON or OFF. Set this feature to OFF if you do not want your number displayed on the receiving person's phone.

1) Press **MENU** (4) (3) (Call Set - SendOwnNum).

2) Press UP or DOWN to change the setting.

3) Press (ENTER) to select the setting.

- This feature is supported by your phone, but may not be supported by your network service provider. Call your network service provider for detailed instructions on using this feature.

4 Privacy

If the network supports the Voice Privacy feature, your call will be encrypted so that no one can access your call. Your phone always attempts to use privacy mode. If your service provider's system does not support this feature, or if the phone is on an analog channel, the *Voice Privacy Inactive!* displays and a warning tone sounds. You can turn this warning tone ON or OFF.

1) Press **MENU** (4) (4) (Call Set - Privacy).

2) Press UP or DOWN to change the setting.

3) Press (ENTER) to select the setting.

- The Voice Privacy feature may not be supported by your network service provider. Call your network service provider to determine if this feature is supported.

NETWORK MENU

MENU 5

Use this menu to select a network channel when you are out of your cellular area.

1 To Public

If the Public Mode setting in the Security menu is enabled, then this menu option will switch your phone from a non-public mode to public mode.

1) Press **MENU** (5) (1) (Network - To Public).

The phone searches the public system channels.

- If the phone finds a public network system channel, *Public System* displays. If the phone cannot find a public channel, *No Service* displays. If Public Mode in the Security Menu is disabled, *Restrict* displays.

2 Man.Search (Private System)

Once a network has been selected, this menu option allows your phone to switch to another private network in the current location.

1) Press **MENU** (5) (2) (Network - Man Search).

The phone displays the name of 1 system channel available.

2) Press UP or DOWN to scroll through the available systems.

3) Press **ENTER** to select a system.

4) Press **END** to exit from registration mode.

- The *No Service* message displays if the phone could not find a network system channel.
- This network selection is not preserved once you turn the phone off. The network used by your current NAM selection is used when you turn the phone back on.

3 New Search

This menu option registers your phone with a private system. (This also applies to a residential system.)

1) Press **MENU** **5** **3** (Network - New Search).

The *Searching Private System* message displays.

The first system name displays.

2) Press **1** (Register) to register with this private system, or press **2** (Next) to search for another system.

3) Press **END** to exit the registration mode.

- The *No Service* message displays if the phone could not find a network system channel.

4 Select NAM

This menu option allows you to change NAMs.

1) Press **MENU** **5** **4** (Network - Select NAM).

The cursor is placed beside the current NAM.

2) Press UP or DOWN to select a new NAM.

3) Press **ENTER** when the cursor is beside the NAM that you want.

- You cannot change your network setting during a call.

SECURITY MENU

MENU 6



This menu allows you to control calling restrictions on your phone, enable or disable Public or Private mode, change your unlock code, and reset the talk timer.


To enter this menu you are required to enter your 4-digit security code. Contact your network service provider if you have lost your security code.


- If your security code is incorrect, *Incorrect Security Code* flashes and the previous menu displays.


1 Restrict


Determines the restrictions set for your phone.


- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Restrict).
- 4) Select one of the following options:

No Restrict: Press  if you don't want any restrictions placed on your phone.

Local Only: Press  to allow local calls of up to 10 digits or toll free calls only.

RCL 1-99: Press  to allow calls only to numbers that are stored in the phone's memory.




RCL 1-9: Press  to allow calls only to numbers that are stored in memory addresses 1-9.

RCV Only: Press  to allow phone calls to be received, but not placed.

- Emergency calls are accepted at any restriction level.
- Manual DTMF transmission is allowed when no restriction or local only modes are selected.
- When the phone is in private mode there are no restrictions, even if this function is set to another level.




2 Public

Determines if your phone can be used on a public network system. You can set this feature to Enable or Disable. Select Enable to allow your phone to be used on a public network system.

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Public).
- 4) Press UP or DOWN to select the new setting.
- 5) Press  to select the setting.




3 Private

Determines if your phone can be used on a private network system. You can set this feature to Enable or Disable. Select Enable to allow your phone to be used on a private network system.

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Private).
- 4) Press UP or DOWN to select the new setting.
- 5) Press  to select the new setting.




4 Resident

Determines if your phone can use private network channels in residential areas. You can set this feature to Enable or Disable. Select Enable to allow your phone to use private network channels in residential areas.

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (Resident).
- 4) Press UP or DOWN to select the new setting.
- 5) Press  to select the setting.

5 Unlock Code




Allows you to view or change your phone's unlock code.

- 1) Press **MENU**  (Security).
- 2) Enter security code.
- 3) Press  (Unlock code).
The current Unlock code appears.
- 4) Enter a new 3-digit Unlock code.
- 5) Press  to set the new Unlock code.

- Do not use the number 911 as an Unlock code.

6 TimerReset

Resets all Talk Timers (except the Operating Timer).

- 1) Press **MENU**  (Security).
- 2) Enter the security code.
- 3) Press  (TimerReset).
- 4) Press UP or DOWN to scroll through the options.
- 5) Press  to select the setting.


THE LOCK MENU

MENU 7

This menu option allows you to lock your phone. When your phone is locked, no calls except 911 can be placed or received.

7 Lock

To lock your phone:

- 1) Press **MENU**  (Lock).
- 2) Enter your 3-digit Unlock code.

The phone displays the *-Locked-* message.

To unlock your phone:

- 1) Enter your 3-digit Unlock code.
- *Invalid Code* flashes if the code is incorrect.
 - You can still place emergency calls to 911 in Locked mode.

- The locked status is preserved when the phone is turned off.

NAM Selection

Your phone can be programmed with up to 3 Number Assignment Modules (NAM). Each NAM is programmed with a different phone number and unique cellular system information.

When you select a NAM, you are also selecting which cellular system you are using as your home system.

You can use only 1 NAM at a time.

- 1) Press **MENU** **5** **4** (Network - Select NAM).

The cursor is placed beside the current NAM.

- 2) Press UP or DOWN to select a new NAM.

- 3) Press **ENTER** when the cursor is beside the NAM that you want.

- You cannot change your network setting during a call.

Contact your network service provider for more information about NAMs.

7. STORING AND RECALLING NUMBERS

Your phone can store up to 109 names and numbers. You can store and recall numbers in Standby or Conversation mode. Each entry stores a name, number and memory location.

To recall names and numbers, press **MEM** and select a menu item. Four items appear on the display at 1 time. Scroll DOWN to view the next items.

You can delete or revise an entry by pressing **MENU** when the name and number information appear on the display.

To dial a number from memory, enter the memory location and press **SEND**.

Storing a Number and Name in Memory

There are 2 methods you can use to store a number and name in memory.

Method 1:

- 1) Press **MEM** **4** (Store).
- 2) Select a memory location directly by entering its location digits, or press **ENTER** to automatically find an open location. Refer to *Specifying a Memory Location on page 53 for more information.*

- 3) Press **ENTER** after completing the number and name information.
- You must enter a number but you are not required to enter a name.
- *Memory Full* flashes when there are no memory locations available.

Method 2:

- 1) Enter a phone number.
- 2) Press **MEM** **MEM** (Mem Store).
- 3) Press **ENTER**.
- 4) The phone number displays. If correct, press **ENTER**. If incorrect, edit the number until it is correct, then press **ENTER**.
- 5) The display prompts for a name. Enter a name associated with this number, or press **ENTER** to bypass.
- 6) The name or number is stored in the first available memory location. The display confirms the memory location with this message: *Stored as ##.*

Deleting a Number from Memory

Numbers and names stored in memory can be deleted or revised. You can edit, move, or copy an entry to another memory location.

- 1) Retrieve the number and name from memory. Refer to *Recalling Stored Numbers on page 55* for more information.
- 2) Press UP or DOWN to select the entry you wish to delete.
- 3) Press **MENU** **DEL** (Delete).
 - If you want to edit, copy, or move an entry, select options 2, 3, or 4.
- 4) Press **Y** (Yes) to confirm or **N** (No) to return to the previous menu.

Specifying a Memory Location

- 1) Press **MEM** **MEM** (Mem Store).
- 2) Select a memory location directly by entering its location digits, or press **ENTER** to automatically find an open location.

For example, press **MEM** to view open memory locations 20 - 29. In this example, 21, 22, 25, 27, and 28 are open locations.

Open Address
2 :
. 1 2 . . 5 . 7 8 .

- 01-09 are reserved for super-speed dialing.
- 10-99 are reserved for speed dialing.
- *0-*9 are reserved for secured numbers.

- A number indicates an open location.
- A period indicates the location is occupied by another number.
- An *Overwrite?* message appears when you choose a memory location that is already occupied.

Press **1** (Yes) to replace the entry. Press **2** (No) to return to the previous menu.

- 3) Enter the appropriate information when *Number?* and *Name?* appear on the display.
 - You must enter a number but you are not required to enter a name.
- 4) Press **ENTER** after completing each entry.
 - *Memory Full* flashes if there are no more memory locations available.

Storing a Number in Secure Memory

An ***** precedes secured number entries (0-9). You must enter your 4-digit security code to store or revise a secured number.

- 1) Press **MEM** **1** (Mem Store).
- 2) Press ***** and your 4-digit security code.
 - An *Incorrect Security Code* message flashes if you entered the wrong security code.
- 3) Select a memory location (0-9).

- 4) Press **ENTER** after completing number and name information.
 - Repeat steps 2, 3, and 4 for additional secured numbers.

Recalling Stored Numbers


- 1) Press **MEM** **2** (RCL Number).
- 2) Either enter the memory location or scroll using the UP and DOWN keys.
- 3) Press **ENTER** to make a selection.
 - To dial the number, press **SEND**.
 - To revise the entry, press **MENU**.
 - An *Empty* message appears and an error tone sounds if there are no numbers stored.

Recalling Stored Names

- 1) Press **MEM** **3** (RCL Name).
- 2) Press UP and DOWN to select the correct name.
- 3) Press **ENTER** to make a selection.
 - To dial the number, press **SEND**.
 - To revise the entry, press **MENU**.
 - An *Empty* message flashes and an error tone sounds if there are no names stored.

Recalling Unanswered Numbers


Your phone automatically stores up to 10 of the most recently unanswered incoming calls. When you have missed a call, the *Called* message displays with the number of missed calls.

- 1) Press **MEM**  (Unanswered).
- 2) Press UP and DOWN to scroll through the Unanswered Call memory.

The calling party number (if available from network) and call time display for the last 10 unanswered calls.



- 3) Press  to call the displayed number.


To delete a number, store a number, or delete all numbers from the Unanswered Call memory, follow these steps:



- 1) Press **MEM**  (Unanswered).
- 2) Press UP and DOWN to scroll through the Unanswered Call memory.

The calling party number (if available from network) and call time display for the last 10 unanswered calls.

- 3) Press **MENU**.
- 4) Select one of the following options:


To Delete: Press   (Delete - Yes) to delete the number from the Unanswered Call memory.

To Store: Press  (Store) to store the number in your phone's memory. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

To Delete All: Press   (Delete All - Yes) to delete all of the numbers in the Unanswered Call memory.

Recalling Received Numbers


Your phone automatically stores up to 10 of the most recently received calls, whether they were answered or unanswered.



- 1) Press **MEM**  (Received).
- 2) Press UP and DOWN to scroll through the Received Call memory.


The calling party number (if available from network) and call time display for the last 10 received calls.



- 3) Press  to call the displayed number.

To delete a number, store a number, or delete all numbers from the Received Call memory, follow these steps:

- 1) Press **MEM**  (Received).
- 2) Press UP and DOWN to scroll through the Received Call memory.
The calling party number (if available from network) and call time display for the last 10 unanswered calls.
- 3) Press **MENU**.
- 4) Select one of the following options:

To Delete: Press   (Delete - Yes) to delete the number from the Received Call memory.

To Store: Press  (Store) to store the number in your phone's memory. *Refer to Storing a Number and Name in Memory on page 51 for more information about storing numbers.*

To Delete All: Press   (Delete All - Yes) to delete all of the numbers in the Received Call memory.

8. PROBLEMS YOU CAN SOLVE

Hardware Concerns


The phone does not turn on

If the phone is new, see "Charging the Battery" on page 12. Otherwise, recharge or replace the battery. If this does not solve the problem, contact Audiovox customer service in the US at 516-233-3300; in Canada, call 905-712-9299.

The phone does not work with the handsfree adapter

A battery is required to use the handsfree adapter; verify a charged battery is installed on the back of the phone. Verify the phone is attached to the adapter.

Dropped calls

The signal strength will depend on your location. Check the received signal strength indicator  , make sure your antenna is fully extended, and try again after the signal strength increases (another bar appears). In addition to geographic location, the signal will weaken behind walls, under bridges, in tunnels, or other obstructions.

Volume varies/mutes briefly

The system's signal strength will vary depending on your location. Audio level variations can occur due to:

- a) a weak signal (see "Dropped calls").
- b) high speed travel.

Audible Warnings

Error tone

An error tone sounds when an unexpected key is pressed (e.g., pushing SEND after pushing MENU).

Fast busy tone

A fast busy tone indicates that the system has not accepted your call.

Siren tone

A siren tone indicates an invalid phone number.

Triple high-pitched tone

A short triple high-pitched tone generated every 20 seconds indicates the battery needs to be charged.

Display Messages

Battery full

The battery has finished charging.

Charging

The phone is charging normally while powered off. Since the phone is off, you cannot place or receive calls.

You can press the ^{ON/OFF}
END key to turn on the phone and operate it normally. The battery will continue to charge (the battery can be charged with the phone either off or on).

CHECK or Program NAM

Audiovox phones are capable of self-diagnostics, and will alert you when an internal error occurs. For *CHECK* errors, write down the number following *CHECK* and contact your phone's network service provider for repairs. If the phone has a *Program NAM* error, your network service provider should be able to solve the problem over the phone.

-Locked-

When the phone is turned on, it may require an access code for security. Enter the preset 3-digit Unlock code.

Low battery! and phone beeps

The phone will turn off in 1 minute. The phone should be turned off and the battery recharged or replaced.

Key lock

Key Lock prevents accidental key entry. Press **MENU** and **ENTER** to turn off this feature.

-Mute-

Press any key except **END** to turn off mute and take the call off hold.

No service

This message indicates you cannot connect to the system (calls cannot be placed or received), which may be due to:

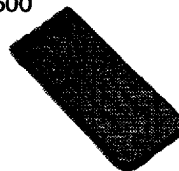
- a) The system in this area does not support your phone.
- b) The signal is too weak. Try moving to another location to use your phone.

Voice Privacy Inactive!

The system does not support the voice privacy feature, or the phone is on an analog voice channel.

9. ACCESSORIES

Slim NiMH Battery
BTR-2500



Extended Life NiMH Battery
BTE-2500



Vibrating NiMH battery
VBT-2500



Cigarette Lighter Rapid Charger
CLC-2500



Desk-top Rapid Charger
RC-2500



AC Rapid Charger
CNR-2500



Leather Carrying Case
LB-2500



Earphone Microphone
EM2500



Belt Clip
BC-2500



Cigarette Lighter Hands-free Kit
CHF-2500



Simple Holder
SH-2500



Notes

Notes

INDEX

Accessories	63
Add 1 Before Dialing	25
Answering a Call	23
Antenna Caution	16
Automatic Answer	41
Automatic Redial	22, 41
Battery	12
Attaching	14
Charger Connection	14
Charging	12
Charging Times	13
Prolonging life of	13
Call Restrictions	45
Call Setting Menu	40
Auto Answer	41
Auto Redial	41
Privacy Mode	42
Send Own Number	42
Changing Phone Settings	35
Contrast Setting	39
Deleting From Memory	52
Display Icons	17

Display Indicator Light	18
Emergency Calls	24
Ending a Call	21
General Settings Menu	39
Contrast	39
Keypad Volume	40
Language	40
Hook-Flash Button	25
Key Functions	19
Key Lock	24
Turn Off	24
Turn On	24
Keypad Volume	40
Language	40
Last Talk Time	38
Lock Menu	49
To Lock Phone	49
To Unlock Phone	49
Making a Call	21
Manual Network Search	43
Memory Locations	53
Menu Overview	35
Message Tone	37

Message Volume	37
Muting Calls	27
NAM Selection	45, 50
Network Features	25
Network Menu	43
Manual Search	43
Private (New Search)	43
Public	43
Select NAM	45
Operating (Total Talk Time)	39
Phone Overview	11
Power On	15
Privacy Mode	42
Enable / Disable	48
Residential Networks	48
Private Mode (Talk Time)	39
Private Network Search	43
Public Network	43
Enable / Disable	48
Received Numbers	57
Recalling	57
Redial	22
Residential Networks	48

Restrictions	46
Ringer Settings	36
Message Tone	37
Message Volume	37
Ringer Tone	37
Ringer Volume	36
Vibrator	38
Ringer Volume	36
Ringling Tone	37
Safety Information	5
Secure Memory	54
Storing	54
Security Menu	45
Private Mode	47
Public Mode	47
Residential Networks	48
Restrictions	46
Talk Timer Reset	49
Send Own Number	42
Silent Scratch Pad	27
Specify Memory Locations	53
Speed Dialing	21
Stored Names	55
Recalling	55

Stored Numbers	55	View Last Dialed Number	30
Deleting	52	Voice Mail Center Number	31
Recalling	55	Voice Messages	31
Storing	51		
Names	51		
Numbers	51		
Talk Time of Calls (Checking)	30		
Talk Timer Menu	38		
Last Talk	38		
Operating Time	39		
Private Mode	39		
Total Talk	39		
Text Messages	32		
Timer Reset	49		
To Public	43		
Tone Signals	28		
Pause Function	29		
Send From Memory	29		
Send Manually	29		
Total Talk Time	39		
Troubleshooting	59		
Unanswered Numbers	57		
Recalling	56		
Vibrator (Vibrating Battery)	38		

12 MONTH LIMITED WARRANTY

MODEL TDM-2500

AUDIOVOX COMMUNICATIONS CORPORATION (the Company) warrants to the original retail purchaser of this Audiovox Handheld Portable Cellular Telephone, that should this product or any part thereof (except the items listed below), under normal use and conditions, be proven defective in material or workmanship 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 keypad and display are similarly warranted for ninety (90) days from date of purchase.

The accessories consisting of the antenna and rechargeable battery pack, travel charger are similarly warranted for twelve (12) months from original purchase.

This Warranty does not apply to batteries, fuses, or costs incurred for testing or checking, or to any product or part hereof which has suffered through alteration, serial number defacement, improper installation, excessive temperature or humidity, environmental conditions, mishandling, misuse, neglect or accident. This Warranty is not assignable or transferable.

To obtain repairs or replacement within the terms of this Warranty, the product should be delivered with proof of warranty coverage, specification of defect(s), transportation prepaid, to the Company at the address shown below.

For TRAVELERS WARRANTY SERVICE:

Call toll free to (800) 229-1235 (in N.Y. State (516) 233-3410) for reference to an Authorized Warranty Station in your area.

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.

The Company disclaims liability for geographic coverage, inadequate signal to antenna, communications range or operation of the Cellular System as a whole.

ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY, ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WHATSOEVER.

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 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.

**IN U.S.A.: AUDIOVOX COMMUNICATIONS
CORPORATION**

555 Wireless Blvd.
Hauppauge, New York 11788
(516) 233-3300

IN CANADA: AUDIOVOX CANADA LTD.

405 Britannia Road East
Mississauga, Ontario L4Z3E6
(905) 712-9299