

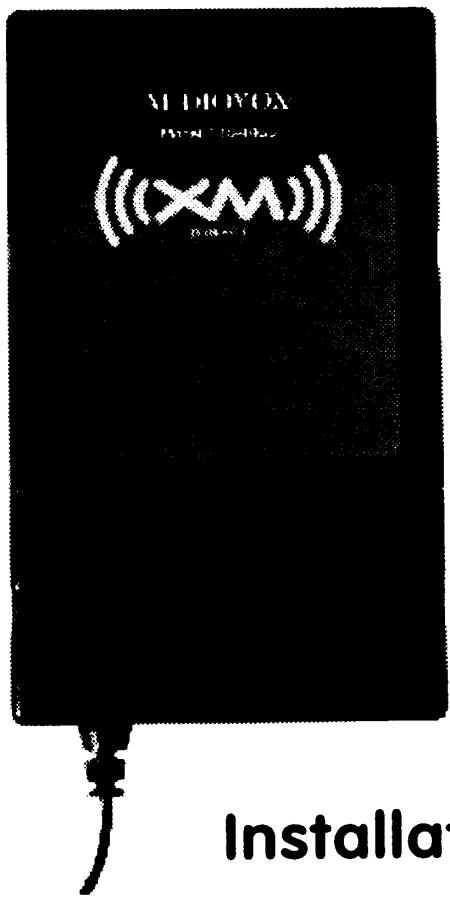
**AUDIOVOX®**  
ELECTRONICS CORP.

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# **PROTOCOL INTERFACE ADAPTER and XM DIRECT 2 TUNER**

**CNP2000UCA**

**“Compatible with Select  
Satellite Ready Car Stereos”**



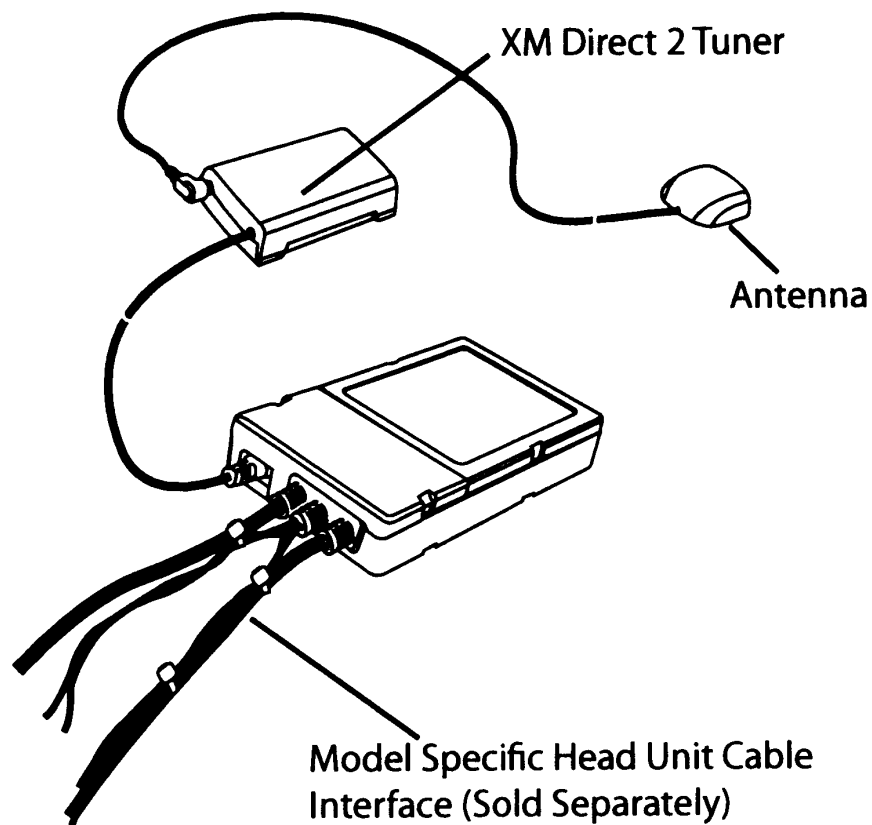
**Installation Guide**

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# Introduction & Installation Overview

Thank you for purchasing the AUDIOVOX Protocol Interface Adapter for satellite radio ready car stereo head units. The Protocol Interface Adapter allows you to adapt a satellite radio ready car stereo to receive XM Satellite Radio service. The PIA is easy to install plugging directly into the car stereo head unit\*. The illustration below shows the installation of the XM Direct system, including the XM Direct 2 Tuner and the antenna.



**\*Professional installation is recommended for the XM Direct System**

## *Installation Basics*

**Note:** Before installation, your PIA must have the proper radio model protocol downloaded. Please see an authorized dealer for programming of your PIA.

When choosing a location to mount the components, care must be taken not to interfere with any of the vehicles existing systems. Good installation practices should be observed when mounting components to avoid any vibration, movement or rattling after installation. When routing the cables avoid blocked passages and any obstructions that could kink, crimp, twist, or chafe the cables. Components should be secured in place with methods such as Velcro, double stick foam tape, screws and nuts, cable ties etc. All mounting hardware and methods are at the discretion of the installer.

Cables should also be secured in place to avoid movement. Care should be taken not to crimp any of the cables when installing them. And special care should be taken not to route cables on or near sharp edges that could eventually cut into the jacket of the cable.

## *Installation Planning*

The PIA should be located within 2-3 feet of the radio due to the cable lengths. The antenna should be located in an area to insure the cable will reach the tuner location. Check this prior to installation.

Prior to installation, locate the area where the XM Direct 2 Tuner shall be installed. Typical locations are the glove box or the center console.

## *Antenna Installation*

1. Best reception is achieved with the antenna mounted on the metal surface of the vehicle roof in the center of an area with at least 12" x 12" of surface area and a minimum of 6" from a window or sun roof.

2. If the vehicle has roof racks or skid ribs, it may be necessary to mount the antenna off-center.
3. If the vehicle roof does not provide sufficient metal surface area then the antenna can be mounted on the metal trunk lid at least 4" from the rear window.

**Caution: DO NOT INSTALL ANTENNA INSIDE VEHICLE PASSENGER COMPARTMENT.** Mounting the antenna in the passenger compartment either on the front dash board or on the rear window deck area of the vehicle may interfere with reception and must be avoided.

**Caution:** Mounting the antenna on a non-metallic surface will also result in severe degradation in reception.

4. If an appropriate antenna mounting location cannot be identified, contact your local distributor installation department for additional guidance.

### *Cable Routing*

1. Once you have mounted the antenna in the correct location, plan how to route the cable from this location to the receiver, avoiding blocked passages and any obstructions that could kink, crimp, twist or chafe the cable. If the cable will come in contact with a rough metal opening, use a rubber grommet to prevent damage.

2. For antenna mounting locations at the front or middle of the roof, the cable can be routed down along the door jam and into the car. In some cars, the cable may be brought into the vehicle through the grommet in the door jam which carries the power window and power lock wires. If the cable does not fit easily through this grommet, do not try to force it through. Instead, route the cable under the weather seal near the lowest part of the trunk to reduce possible water leaks.
3. Use pre-existing wiring channels created by the vehicle manufacturer whenever possible.

### *Tools Required*

The antenna contains a powerful magnet that will secure it to a metal roof under normal driving conditions. No additional tools should be needed to mount the antenna.

### *Installation Procedure*

#### **Step 1**

Remove the car stereo head unit from your dash board.

**Important:** Depending on how your head unit was installed you may have to remove part or all of your dashboard to remove the head unit before the head unit can be pulled out. You may also have to remove screws to complete this step.

**Step 2**

Connect the cable into the PIA. Plug the other end of the cable into the head unit (Cable sold separately). Read your cable installation manual for proper installation to your specific head unit.

**Step 3**

Start your car and turn on your unit to confirm that the XM Direct system is properly connected. When you tune to XM channel 1, you should see "XM Preview" on your head unit LCD, and hear that channel through your car speakers. If not, check to make sure all connections are correct or refer to the troubleshooting section of this installation guide.

**Step 4**

Mount and secure the PIA in a suitable location that will not interfere with the radio and will not vibrate or rattle after installation.

**Step 5**

Return the car stereo head unit back to its original location in the dash board, be careful with cables that you just installed so that they do not unplug or get kinked by the head unit.

**Note:** If you had removed screws to pull the car stereo head unit out please screw those back in.

**Step 6**

If you had removed the dash board during installation please return it back to its original location.

**Completing Activation**

Now that your XM Direct system has been installed your XM Universal Tuner will need to be activated. Details on how to operate your head unit in XM mode are listed on the following page. Tune your car stereo head unit to the XM Preview Channel, channel 1 and follow instructions for activation. You can also go on-line at [XMradio.com](http://XMradio.com) or call the toll free XM activation number at 1-800-967-2346. Once you have activated your tuner box make sure the XM antenna on the outside of your car has an unobstructed view of the sky.



## *XM Satellite Radio Operation*

Please refer to the "XM tuner control features" section of your cassette, CD or mobile video receiver manual for instructions on operating your XM satellite radio service.

### *XM Radio ID*

1. During XM Satellite Radio reception, press the Seek button to select "CHANNEL 0."
2. Press the "Seek – (down)" button. "RADIO ID" is indicated for 2 seconds and the XM Radio ID number is indicated for 10 seconds.

To cancel the XM Radio ID display, press the Seek button to select a channel.

## Troubleshooting

### *No Sound*

- Adjust the volume control of the head unit.
- Make sure that all of the cables between the PIA and the head unit and the tuner are securely plugged in.

### *Advisory Message*

When a problem occurs with the XM Direct system, an error message will be indicated on the display of the head unit.

### **ANTENNA**

The antenna is not connected properly.

- Check the connection of the antenna to the XM tuner.

### **UPDATING**

Radio is being updated with latest encryption code.

- Wait until the encryption code updates. Channels 0 and 1 should function normally. You have not subscribed to XM service.
- Contact XM to subscribe.

### **NO SIGNAL**

XM signal is being blocked from reaching the XM antenna.

- The message should disappear as soon as you move out of an obstructed area such as an indoor garage. If the problem persists, make sure your antenna is mounted outside and on top of the car with a clear view of the sky.

## Troubleshooting (Cont)

### **OFF AIR**

The channel currently selected has stopped broadcasting.

- Automatically switches to valid channel. No action is required.

### **LOADING**

The receiver is reading the channel information.

- Wait until the XM tuner completes receiving the information.

### **NO INFO**

No information is available to display.

- No action is required.

### **“CH ---”**

The channel to be tuned is void due to a channel lineup change. The tuner will automatically switch to a valid channel.

- No action is required.

### **OTHER SYMPTOMS**

Should any problem persist after you have made the following checks, call Audiovox for help at 1-800-645-4994 on any business day, between 9 A.M. and 5:30P.M., EST and ask for Technical Support.



**AUDIOVOX**  
ELECTRONICS CORP.

**12 MONTH LIMITED WARRANTY**  
*PROGRAMMABLE INTERFACE ADAPTER*

CNP2000UCA

AUDIOVOX ELECTRONICS CORPORATION (the Company) warrants to the original retail purchaser of this product that should under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station or the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to costs incurred for installation, removal or reinstallation of the product, or to damage to speakers, accessories or electrical systems. Warranty does not apply to malfunction of satellite transmissions, repeater signals or audio systems or to damage caused by poor installation of included components such as magnetic roof mount antenna, programmable interface adapter or receiver docking station.

This Warranty does not apply to any product in the opinion of the Company that has been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s).

## **WARRANTY (Cont)**

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.

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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 limitations 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.

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CANADA: CALL 1-800-645-4994 FOR LOCATION OF WARRANTY STATION  
SERVING YOUR AREA

128-8054

## PRODUCT REGISTRATION

Thank you for purchasing an Audiovox product. We pride ourselves on the quality and reliability of all our electronic products but if you ever need service or have a question, our customer service staff stands ready to help. Contact us at [www.audiovox.com](http://www.audiovox.com)

### PRODUCT PROTECTION:

In case of an insurance loss such as fire, flood or theft, your registration will serve as proof of purchase.

### PURCHASE REGISTRATION:

Registering On-Line will allow us to contact you in the unlikely event a safety notification is required under the Federal Consumer Safety Act. **Click On Product Registration and Fill Out the Brief Questionnaire.**

For additional information: call **1-800-645-4994**  
or visit [audiovox.com](http://audiovox.com).

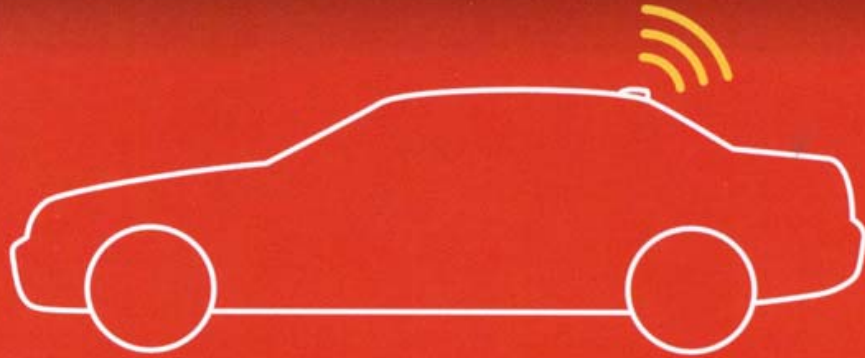
For more information about XM Satellite Radio service,  
visit [www.xmradio.com](http://www.xmradio.com) or call **1-800-967-2346**.

*"XM" and XM Logo are registered trademarks of SIRIUS XM Radio Inc.*





1. Locate XM Direct 2 Mini-USB port on module.
2. Attach XM Direct 2 USB programming cable.
3. Locate USB 2.0 port on your computer
4. Attach other end of XM Direct 2 programming cable.
5. Program XM Direct 2 module per latest website instructions.  
[www.audiovox.com/xmdirect](http://www.audiovox.com/xmdirect)



ADD SATELLITE RADIO TO YOUR  
XM-READY CAR STEREO

**XM Direct<sup>2</sup>**

Vehicle Tuner



Enjoy Commercial-Free Music,  
plus live sports, news talk  
& exclusive entertainment

**PROFESSIONAL INSTALLATION RECOMMENDED**

SEE SALES REPRESENTATIVE FOR INSTALLATION OPTIONS

MODEL: CNP2000UCA

Hardware and satellite radio subscription sold separately. Activation fee, other fees, and taxes required. XM products, programming, services, and fees are subject to change. Subscriptions are governed by the XM Customer Agreement available at [xmradio.com](http://xmradio.com). SIRIUS|XM U.S. Satellite Service available only to those at least 18 years of age in the 48 contiguous USA and DC, with SIRIUS also available in PR (with coverage limitations). Service available in Canada; see [www.xmradio.ca](http://www.xmradio.ca).

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WARNING: this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



For Customer Service  
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Product Information, Photos,  
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XM Direct 2 Vehicle Tuner  
Made in Malaysia



Printed on recycled paper.





# XM Direct<sup>2</sup>

Add Satellite Radio to your XM-Ready Car Stereo and enjoy Commercial-Free music, plus live sports, news, talk & exclusive entertainment.



### ADD THE BEST OF SIRIUS TO YOUR XM RADIO\*



\*Subscription to The Best of SIRIUS required

### CONTENTS INCLUDE:



Interface Adapter



XM Direct<sup>2</sup> Vehicle Tuner



Magnetic Mount Antenna



Programming Cable\*



### CONNECTION CABLE REQUIRED

Choose the proper XM Connection Cable for your car stereo.

Advent  
Alpine  
Clarion

Eclipse  
Jensen  
JVC

Kenwood  
Panasonic  
Sony

Speak with a Sales Representative for details.

MODEL: CNP2000UCA

\* Requires: internet connection, USB 2.0 port, Microsoft® IE 6.0 or higher. Microsoft® Windows XP compatible. Please refer to [www.audiovox.com/xmdirect](http://www.audiovox.com/xmdirect) for the latest compatibility information.

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