

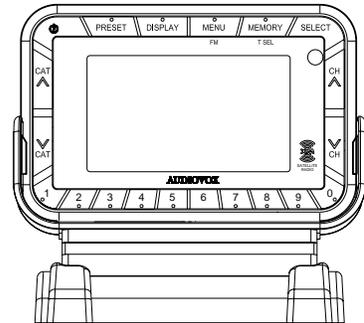
**AUDIOVOX®**  
ELECTRONICS CORP.



SATELLITE  
RADIO

# XH9 Home Cradle

## Home Installation Guide for use with XR9 Satellite Radio Receiver



Released 9-30-04.  
Revision A: 11-8-04. Changed default screen.

128-7219A

1 of 12

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## ***Congratulations***

You are one step closer to experiencing XM Satellite Radio. XM will revolutionize your in-home or vehicle entertainment with:

- Over 130 channels of original programming, including –  
68 channels of 100% commercial-free music – guaranteed,  
Over 60 channels of world-class sports, news, talk and information.

Your Audiovox XR9 Satellite Radio Receiver must be used with an adapter kit, such as the Audiovox Home kit, Boom Box or Vehicle Kit as required by your specific installation needs. These kits are available at retailers where Audiovox main units are sold.

Audiovox Home Kit: XH9  
Audiovox Vehicle Kit: XC9  
Audiovox Boombox: XB9

Required subscription for service sold separately. Premium Channels available at additional monthly costs. Installation costs and other fees and taxes may apply, including a one-time activation fee. All fees and programming subject to change. College sports games subject to availability. Subscriptions subject to Customer Agreement included with the XM Welcome Kit and available at [xmradio.com](http://xmradio.com). Only available in the 48 contiguous United States.

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### ***Cautions and Warnings***

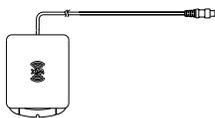
1. Do not install the in a position that obstructs viewing of any home entertainment component, such as Television, or stereo system indicators and displays.
2. This unit complies with the interference limits relative to a Class B digital device, applicable under Part 15 of the FCC Rules regarding installation in a residential environment. If the unit is not installed in accordance with these instructions, it could cause harmful interference to radio or television reception. If this condition persists after corrective action, consult your dealer or experienced installation facility.
3. By adhering to these warnings and safety considerations, serious accidents and/or personal injury can be avoided.

## Contents XH9

Install Manual  
(P/N 1287219)



Antenna  
(P/N 118-1134)



1 pc.

DC Power Adapter  
(P/N 136-3782)



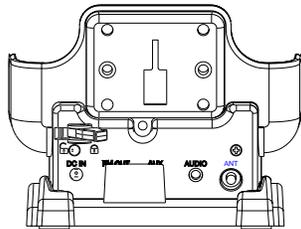
1 pc.

Audio Cable  
(P/N 112B3293)



1 pc.

Cradle XH9  
(P/N 136-3772)



1 pc.

## Installation/Wiring Precautions

1. Make sure the adapter cable is not connected to an AC wall outlet until all interconnections have been made and verified. The adapter power cable should be connected last.
2. Do not install the unit in the locations exposed to direct sunlight or in areas subject to extreme temperatures.
3. Incorrect installation may cause damage to the system.
4. During antenna placement/installation, refer to the Antenna Aiming procedure outlined in the XR9 User Guide (128-7220).

## Setting Up and Installing Your Kit

**NOTE:** The XM signal can be received and processed virtually anywhere as long as there are no obvious satellite signal obstructions such as high terrain, trees, overhangs, etc.

### 1. *Cabling Interconnections*

You can begin to enjoy XM Satellite Radio as soon as the XR9 and home Kit installation are complete. Set up your XH9 using the following installation instructions, or enlist the help of a professional installer.

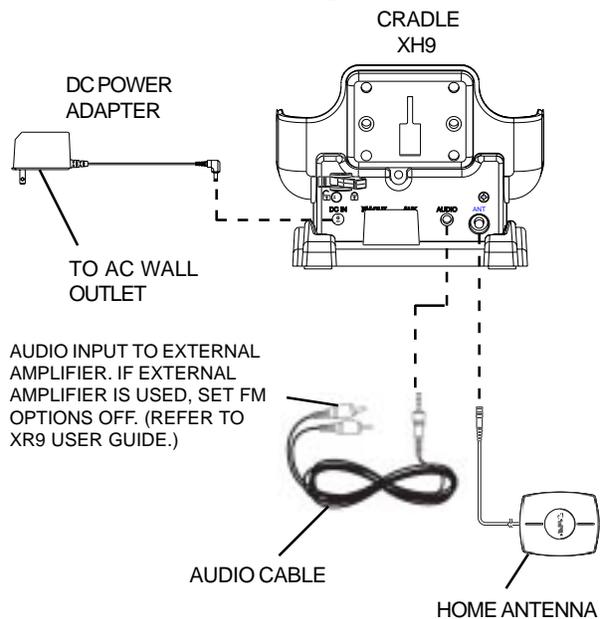
### 2. *Installing/Positioning the Antenna*

For best reception, the supplied antenna should be placed near a window; some repositioning may be required to achieve optimum results. The following guidelines are recommended:

- a. In a major city, where XM ground repeaters are present, you can usually place the antenna away from a window and still achieve the desired results.
- b. You can also place the antenna outside (on the roof structure), provided it is clear of any overhead obstructions.

**NOTE:** Because of the orbiting characteristics of the XM Satellites, the strength of the received signal may change over time. In most cases however, the signal should be available

## *Interconnect Diagram*

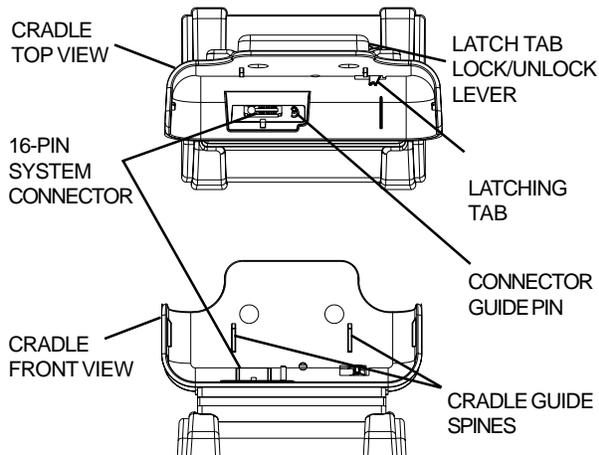


continuously. If you experience a loss of signal or audio, reposition the antenna inside the home or outside as necessary.

### 3. Installing the XR9 In the Cradle

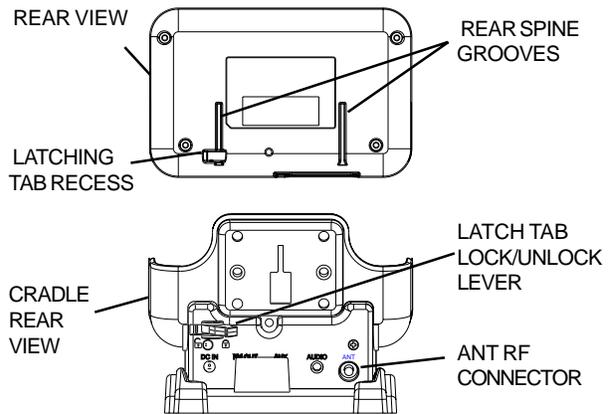
Install the XR9 as follows:

- a. Carefully line up the rear spine grooves with the cradle guide spines; slide the latch



tab lever to the unlock (  ) position, and lower the XR9 into the cradle.

- b. After making sure the connectors are properly lined up, gently press down on the XR9 to mate the connectors together.
- c. Slide the latch tab lever to the lock (  ) position; the tab will enter the XR9 latching tab recess to prevent vertical movement. The XR9 should now be nestled securely in the cradle.



#### 4. Aiming your XM Home Antenna

If the XR9 display says "NO SIGNAL," the antenna needs to be repositioned. In addition, even if you are receiving the XM signal, it is recommended that you optimize the position of your XM Antenna as described in this section enabling you to receive the strongest possible signal and consistent, mute-free reception.

Your XR9 display has two different signal-strength indicators which will help you optimize the antenna's position: The first is a basic signal strength indicator visible at the upper right corner of the display screen

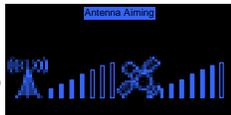
during normal listening.

It has from zero to four vertical bars; four bars

represent the strongest signal. The other is a higher-resolution signal-strength indicator screen showing Terrestrial and Satellite indications which allow you to optimally

aim your XM Antenna. To access and use this screen, refer to the XR9 Satellite

Radio Receiver User Guide (128-7220).



Adjust the antenna location until the maximum number of "Satellite" bars is displayed. The XR9 will receive programming as long as either the satellite or terrestrial signal has at least two bars displayed. Selecting a position with the maximum number of "Satellite" bars displayed will ensure a consistently strong signal.

##### a. Positioning the XM Antenna

The antenna supplied with the XR9 Home Kit is a high-gain type that can receive XM's signal from one of XM's satellites and/or, depending on where you live, XM's terrestrial repeaters. It is recommended that the antenna be positioned near a south-facing window or outdoors with a clear view of the southeastern sky in order to receive the satellite signal. In some cases, it will be possible to receive XM's signal through standard home walls or a roof. To position your antenna, first set up the home system as described earlier in this installation guide. Next, position the antenna until you receive the

strongest possible satellite signal. If the satellite signal is not available, you can optimize it for a terrestrial signal (where available).

**b. Indoor installation on a flat surface**

To aim your antenna at the satellite:

1. Set antenna flat against its base on a flat (horizontal) surface.
2. Turn the base of the antenna so that the XM logo is facing to the south if you are in the eastern half of the U.S. and to the south/southeast if you are in the western half.
3. Use the "Antenna Aiming" screen, as described on the previous page, to optimize antenna tilt angle and position.
4. If necessary, experiment with different locations near a south-facing window or outside.

**c. Outdoor installation or indoor wall mounting**

The antenna can also be attached vertically to an external or internal wall if that is more convenient than placing it on a horizontal surface.

1. Holding your antenna up, find a wall location that ensures a strong signal. It is recommended that you use an extension cord to temporarily locate your XR9 antenna outdoors while optimizing the antenna location with the **Antenna Aiming** screen.
2. Attach four screws to the wall using the template provided. Use screws with head sizes small enough to fit in the center of each of the four holes but large enough not to pop out of the elongated sections. Leave 1/8 inch of the screw shanks behind the heads sticking out of the wall.
3. Tilt the antenna fully back on the base, place the antenna base on the four screw heads with the antenna pivot at the top, and pull down approximately 1/4 inch until the base is firmly secured. Note that the XM logo will be upside down when the antenna is properly installed.
4. Tilt the antenna away from the wall/base until the signal strength is optimized.

- NOTE:** Do not cut the antenna cable and attempt to splice it or attach alternative connectors or cable. The cable and connectors used in your XH9 Home Kit are specially chosen and attached at the factory to ensure that they will work with XM's unique frequency band. Use an XM-approved antenna extension kit from your local consumer electronics retailer. Failure to do so could damage the unit.
- d. Apply power to the XR9 home system as outlined in the associated User Guide and obtain an audio output. If no audio is heard, move the antenna to different positions on the surface until an audio output is heard. This is the desired antenna position and should be marked with masking tape or by another non-scratch method.
  - e. After determining the optimum position, turn off XR9 power, disconnect the power adapter from the wall outlet receptacle and disconnect the antenna cable.
  - f. Plan the routing of the antenna cable to the cradle. Make sure you avoid any obstructions that could crimp, kink or twist the cable; use protective grommets wherever rough openings are encountered.
  - g. If the antenna is mounted outside, route the cable from the antenna position to the interior of the home, working the cable through the basement, under a window sill, etc.; make adjustments and take up slack whenever necessary.
  - h. Plug the antenna cable into the ANT connector on the back of the cradle.
  - i. Plug the DC Adapter jack into the "DC IN" 6V receptacle on the cradle.
  - j. Plug the other end of the AC/DC wall adapter into 110-volt wall receptacle; then press the XR9 Power button (  ) to energize the unit. You are now ready to enjoy XM programming within your home.
- NOTE:** When using the rear audio output with an external amplifier, the XR9 FM transmitter option should be set to **Off**. (Refer to the XR9 User Guide, 128-7220.)



## 12 MONTH LIMITED WARRANTY

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, 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 correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or to damage to tapes, compact discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). 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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**CANADA :** CALL 1-800-645-4994 FOR LOCATION OF WARRANTY STATION SERVING YOUR AREA

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