

Vehicle Installation Guidelines for XM Satellite Radio



For more information, see your radio's user guide or contact XM Listener Care at 1.800.XM.RADIO (1.800.967.2346).
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Vehicle Installation Guidelines for XM Satellite Radio

This XM Receiver offers the listener a variety of options for connecting XM Satellite Radio to your vehicle's FM radio. XM research and lab test results show that using a vehicle cassette adapter can best maximize the relationship between the best sound quality and ease of installation. If your vehicle kit does not include a cassette adapter, one should be available at your local retailer or visit www.xmradio.com, click "Shop XM Radio."

Audio Quality	Good	Better	Best
Cassette Adaptor	[Progress bar showing high quality]		
Wired FM	[Progress bar showing medium quality]		
Wireless FM	[Progress bar showing low quality]		

1. Cassette Adapter

Using a cassette adapter for audio is the most popular and best sounding solution. Please follow steps 1 through 4 below for mounting the satellite radio antenna and securing the XM receiver and cables.

2. Wired FM (Professional Installation Recommended)

A wired FM installation kit is available from your retailer for professional installation. See your retailer for details. This solution is recommended if you cannot get acceptable performance with the wireless FM modulator.

3. Wireless FM Modulator

The XM receiver is equipped with a FM modulator which can transmit the XM audio to your car's FM radio without wires.

Step 1:

IMPORTANT: For best wireless FM Modulator performance, you must locate the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.

For example, with reference to Figure 1, if your FM antenna is located on a rear fender or top of the roof, mount the XM antenna near the rear window location (option 1). If your FM antenna is located on a front fender, mount the XM antenna near the windshield location (option 2). Remember, the closer the satellite radio antenna can be to the FM antenna, the better the wireless FM reception and sound quality will be.

In order to optimize the operation of the wireless FM modulator, follow the installation guidelines outlined in steps 1 through 4 below:

First, determine the proper location for your satellite radio antenna based on the following criteria for your specific vehicle:

- You must locate the satellite radio antenna on the top of the roof either in front of the rear window (option 1) or behind the windshield (option 2). The satellite radio antenna will perform best if magnetically attached to a steel surface with an unobstructed view of the open sky and minimum of 3 to 6 inches of metal surrounding the antenna.
- When routing the antenna cable along the windshield or rear window, tuck the antenna cable under the window seal to maintain a professional looking installation and to avoid loose wires on the exterior of the vehicle which are susceptible to damage. Follow the interior cable routing diagram depicted by dashed lines in Figure 1 where possible.

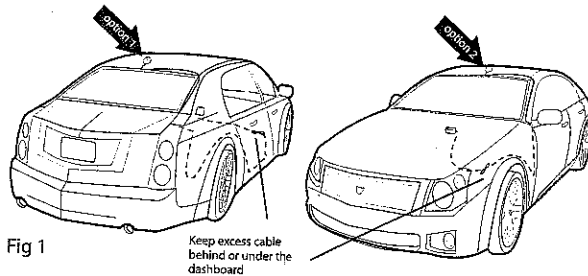


Fig 1

- For best FM Modulator performance, you must locate the satellite radio antenna in a location that is in close proximity to the vehicle's FM antenna.
- Avoid kinking, crimping, twisting or chafing the cable. Use pre-existing wire channels when possible.
- For option 1 and rear mounting locations, route the cable into the trunk as shown. Always cross the weather seal at the lowest part of the trunk to reduce water leaks. From the trunk, route the cable into the passenger compartment through available wire channels and then along the floor under the door jam trim or under the carpet to the front of the passenger compartment. Do not leave the cable loose in the passenger compartment where it is likely to be damaged.
- For option 2 and front mounting locations, route the cable along the door jam and into the vehicle as shown. Route the cable across the weather seal near the bottom of the door to reduce water leaks.

Step 2:

Be sure to locate your car cradle and receiver below the top of the dash in your vehicle to keep the product within easy reach while driving. Choosing a lower location in your installation should also make it easier to manage the cables and achieve a more desirable appearance when the installation is completed. A lower location for the receiver in the vehicle will ensure that the installation does not cause interference with other FM radios outside the vehicle.

See illustration below (Fig 2) and be sure to locate your car cradle within the shaded area.

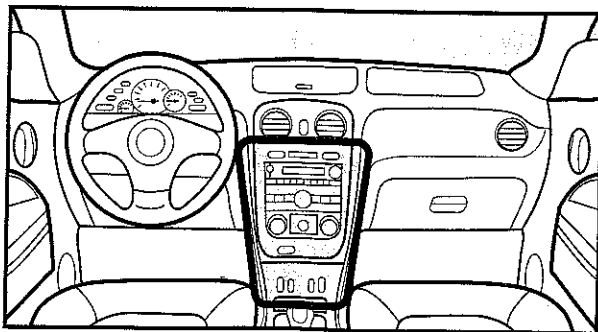


Fig 2

Step 3:

Once you have plugged the power and antenna jacks in to the car cradle, use the included cable organizer as shown in figure 3 to improve the overall appearance of the installation.

Step 4:

Re-use the cable twist ties that were provided with the power adaptor and car antenna cables and always be sure to gather, bundle, twist tie, and secure any excess cable remaining after determining the best location for your satellite radio installation.

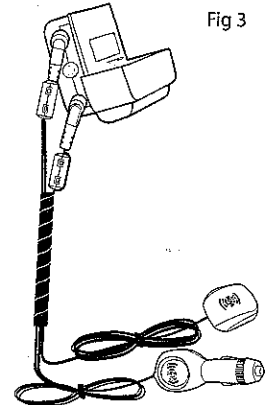


Fig 3

For example, secure the excess cable up under your dash board, between the seat and the console, or on the floor under a seat or floor mat. This will help to prevent the excess cable from interfering with the everyday use of your vehicle, improve the appearance of the installation, and avoid any undesirable accidental damage to the cables that might result in loss of power or satellite signal.

For wireless FM modulator installations, securing and tie wrapping the excess cable is important to reduce background hissing noise. Be sure to choose a location carefully by taking notice of how doors and trunks open and close, as well as how seats move when they are adjusted so you can be certain there is ample clearance provided for the cables.

FCC INFORMATION:

Please note that the cables and antenna wire that has been supplied with your device are supplied with permanently attached ferrite beads. It is the responsibility of the user to use the cable and antenna wire with the ferrite beads.

The user is cautioned that changes or modifications not expressly approved by XM Satellite Radio, Inc. can void the user's authority to operate this device.

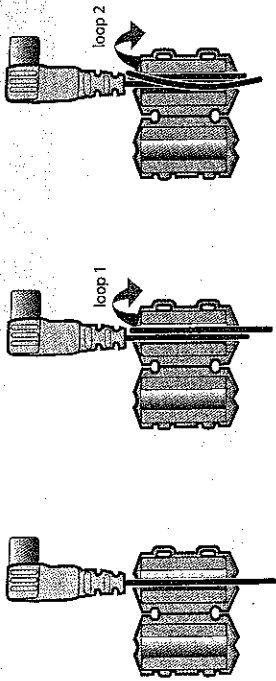
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

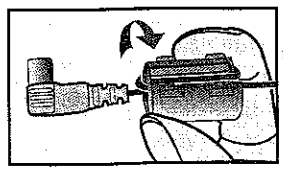
How to attach the snap on "ferrite" to the XM Satellite Radio antenna cable.



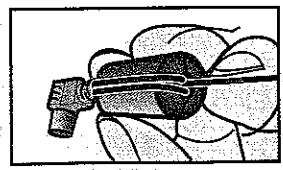
1 Place the XM car antenna cable into the ferrite.

2 Wrap the antenna cable around the ferrite once.

3 Wrap the antenna cable around the ferrite a second time as shown.



4 Snap the ferrite closed. Be sure you are not pinching the cable.



5 The cable should fit tight against the ferrite.

6 This is how the ferrite will look if you have attached it correctly.

FCC REQUIREMENT:

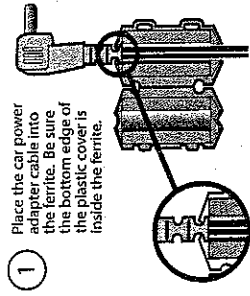
In order to avoid interference with nearby radios in your home, use the optional home cradle accessory kit, and use the included mini-to-RCA cable. In your XM radio menu, if the FM Frequency can be set to "Off", set it to "Off".

! IMPORTANT INSTALLATION NOTICE

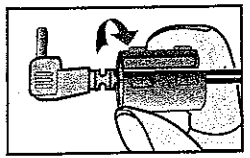
In order to ensure that your new XM Radio operates properly you must install these attached "ferrites" to

both the XM Satellite Radio antenna lead and the cigarette lighter adaptor lead as illustrated below. Doing so is an important part of the installation which is required to make sure that your XM Radio will not interfere with other radios.

How to attach the snap on "ferrite" to the XM Satellite Radio POWER ADAPTER cable.



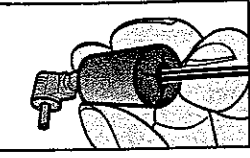
1 Place the car power adapter cable into the ferrite. Be sure the bottom edge of the plastic cover is inside the ferrite.



2 Snap the ferrite closed. Be sure you are not pinching the cable.



3 The ferrite should fit tightly around the cable.



4 This is how the ferrite will look if you have attached it correctly.

