



Magnetic Mount Vehicle Antenna

Installation Guide

Warning and Safety Information

Caution

Because adhesive is used in the installation of the rubber cover/tail, it is recommended that the antenna be installed at or above room temperature (68 degrees). Lower temperatures may cause the adhesive on the rubber cover/tail to not adhere properly to the vehicle roof. Warmer temperatures will also allow for easier over all antenna installation, including easier routing of the antenna cable through the rubber molding around the windows and other areas in the vehicle. Maximum adhesion usually occurs within 72 hours at room temperature, so car washes as well as other contact with the antenna and rubber cover/tail should be avoided during this 72 hour period.

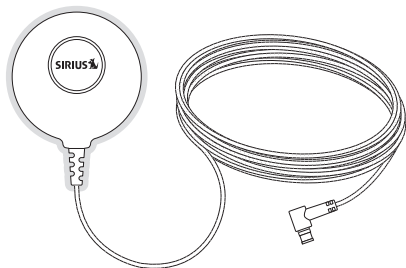
Warning

Be sure not to cut, damage, or puncture the external jacket of the antenna cable during the installation procedure. Damage to the antenna cable can cause the SIRIUS signal to be degraded or unavailable, and can also cause water to intrude via the cable into the antenna causing the antenna to fail.

Do not lengthen or shorten the antenna cable by cutting it. Doing so will cause the antenna to not function properly.

Package Contents

The following items are included with your purchase of the SIRIUS Magnetic Mount Vehicle Antenna. Unpack the kit carefully and make sure that everything shown is present. If anything is missing or damaged, or if the kit fails to operate properly, notify your dealer immediately. It is recommended that you retain the original carton and packing materials in case you need to ship your kit in the future.



**Magnetic Mount
Vehicle Antenna**



**Rubber
Cover/Tail**



Alcohol Swab

Installation

The installation of the magnetic antenna consists of two installation steps:

- Mounting the magnetic antenna and cover/tail on the vehicle
- Routing the antenna cable through the vehicle to the SIRIUS radio or vehicle dock

The following sections provide instructions for both installation steps.

Antenna Mounting

The SIRIUS Magnetic Mount Vehicle Antenna has a strong magnetic mount designed to hold the antenna in place during normal driving conditions (highway/city). This also allows for easy removal for transferring the antenna to other vehicles.

Figure 1 shows the optimal mounting location for the antenna on several types of vehicles. These mounting positions should be observed when installing the antenna:

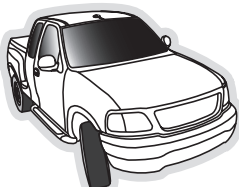
- **Sedan/Coupe/SUV/Mini-Van:** Install the antenna at the rear center of the roof, near the rear window.
- **Pickup Truck:** Install the antenna at the front center of the roof, near the windshield.
- **Convertible:** Install the antenna at the front center of the trunk lid, near the rear window.

The SIRIUS antenna needs to have an **unobstructed area of 3 inches by 3 inches around it**. It is important to mount the antenna where no obstructions will block the antenna from receiving the SIRIUS signal. Objects which can obstruct the antenna could be a roof rack, a sunroof, a roof mounted cargo container, another antenna, etc. If your vehicle has a potential obstruction, be sure that the SIRIUS antenna is mounted at least 3 inches away from it (but no closer than 3 inches from the roof edge, or trunk lid in the case of a convertible).

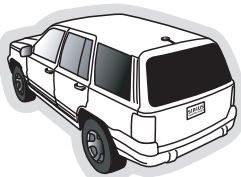
Note: Read the **Do** and **Do Not** installation tips beginning on page 13 for additional antenna installation information.



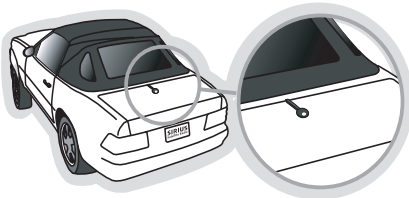
Sedan/Coupe



Pickup Truck



SUV/Mini-Van



Convertible

Figure 1

Follow this procedure to mount the antenna:

1. Select an appropriate mounting position for your type of vehicle that has an unobstructed area of 3 inches by 3 inches around the antenna.
2. Attach the rubber cover/tail to the antenna, as shown in Figure 2, and press the antenna cable into the rubber cover/tail. The rubber cover/tail will help to position the antenna the correct distance from the edge of the roof or trunk lid.
3. Clean the surface area of the vehicle where you will be installing the antenna with the alcohol prep pad.
4. Peel the protective material from the adhesive strips (Figure 2) and press the rubber cover/tail firmly into place on the vehicle (Figure 3).

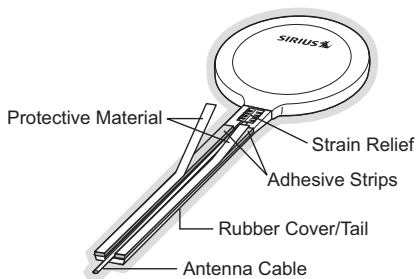


Figure 2

5. Double check that the location of the antenna and rubber cover/tail are correct, and continue to press firmly down on rubber cover/tail for another 30 seconds. At room temperature (68 degrees), maximum adhesion usually occurs within 72 hours. During this period, avoid car washes and other contact with the antenna and rubber antenna cable cover/tail.

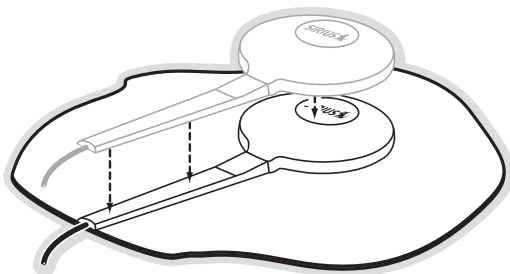


Figure 3

Cable Routing

When you have successfully mounted the antenna, you can begin the cable routing portion of the installation. Separate antenna cable routing procedures are provided for each type of vehicle:

- **Sedan/Coupe** on page 7
- **Pickup Truck** on page 8
- **SUV/Mini-Van** on page 10
- **Convertible** on page 11

Note that additional breakout illustrations for each step of the antenna cable routing procedures can be found on the SIRIUS website at <http://www.sirius.com>. Click on the **Install/Activate** link and then follow the link for the **Car Installation Tips**.

Sedan/Coupe Antenna Cable Routing Procedure

Figure 4 shows how the antenna cable should be routed from the antenna to your SIRIUS radio in a sedan/coupe.

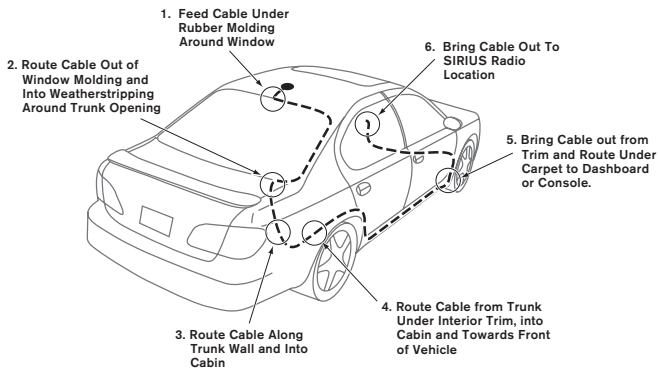


Figure 4

Follow these detailed cable installation instructions:

1. Feed the cable from the antenna underneath the rubber molding around the rear window. Use a plastic putty knife or similar object to lift the rubber molding around the rear window and tuck the antenna cable underneath the molding. Route the antenna cable around and down the window to the lowest point. If your rear window does not have rubber molding, SIRIUS recommends consulting with a professional installer.
2. Route the antenna cable out of the window molding and into the rubber weather stripping around the trunk opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. To avoid sharp bends in the cable, run the cable inside of the weather stripping for a few inches, then remove the cable from the weather stripping inside of the trunk. Keep the cable away from hinges, gears, etc., that could damage it.
3. Route the cable out from the rubber weather stripping and along the trunk wall. Continue routing the cable into the cabin through a conduit or along an existing wiring harness.
4. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use the plastic putty knife to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations on back pillars and above the doors. (Airbag locations are marked with "SRS" logos.) Be careful not to crimp or cut the cable.
5. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
6. Bring the end of the cable out at the SIRIUS radio location. Leave yourself enough cable so you can easily connect it to the antenna connector of the SIRIUS radio or vehicle dock.

Pickup Truck Antenna Cable Routing Procedure

Figure 5 shows how the antenna cable should be routed from the antenna to your SIRIUS radio in a pickup truck.

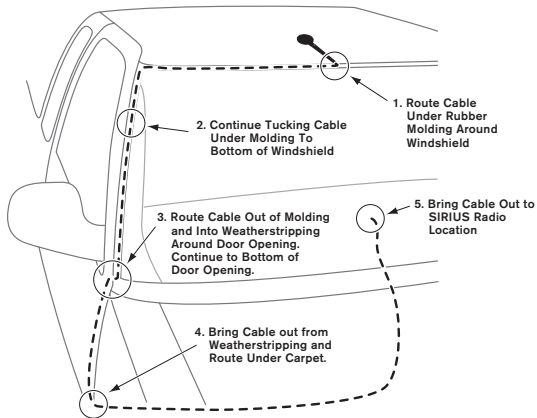


Figure 5

Follow these detailed cable installation instructions:

1. Use a plastic putty knife or similar tool to lift the rubber molding around the windshield and tuck the antenna cable underneath it.
2. Continue tucking the cable underneath the windshield molding around the windshield to the lowest corner.
3. At the lowest corner of the windshield, route the cable out of the windshield molding and into the rubber weather stripping around the door opening. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Run the cable inside of the weather stripping to the bottom of the door opening.
4. Pull the cable out of the weather stripping at the bottom of the door opening and route it under the carpet toward the dashboard. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.

5. Bring the end of the cable out at the SIRIUS radio location. Leave yourself enough cable so you can easily connect it to the antenna connector of the SIRIUS radio or vehicle dock.

SUV/Mini-Van Antenna Cable Routing Procedure

Figure 6 shows how the antenna cable should be routed from the antenna to your SIRIUS radio in an SUV or a Mini-Van.

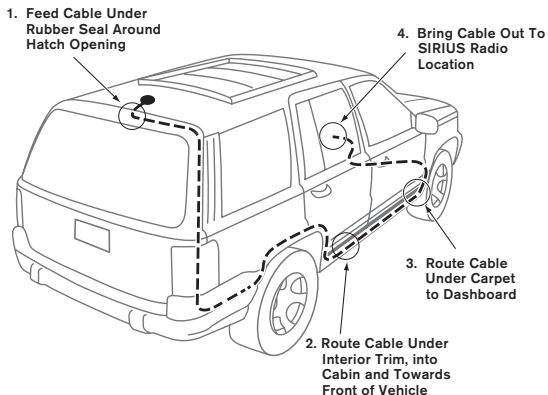


Figure 6

Follow these detailed cable installation instructions:

1. Feed the antenna cable underneath the rubber weather stripping of the rear tailgate window/door and route the cable along the rear hatch. Lift the weather stripping from the opening and tuck the cable inside it, then replace the weather stripping. Pull the cable out from weather stripping and route it into the cabin under the interior trim. Avoid hinges or gears that could crimp or cut the cable.
2. Route the cable through the SUV's main cabin area under the interior trim, towards the front of the vehicle. Use a plastic putty knife to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations on back pillars and above the

doors. (Airbag locations are marked with "SRS" logos.) Be careful not to crimp or cut the cable.

3. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
4. Bring the end of the cable out at the SIRIUS radio location. Leave yourself enough cable so you can easily connect it to the antenna connector of the SIRIUS radio or vehicle cradle/dock.

Convertible Antenna Cable Routing Procedure

Figure 7 shows how the antenna cable should be routed from the antenna to your SIRIUS radio in a convertible.

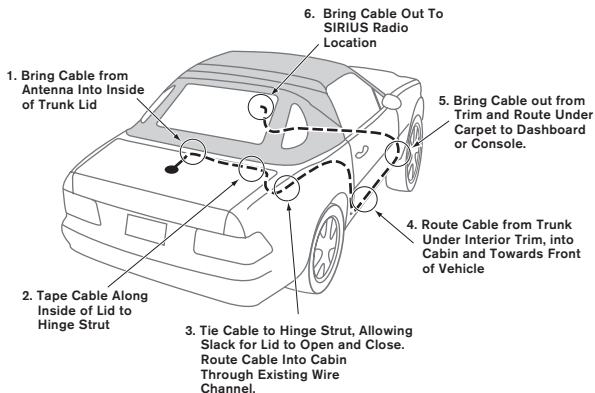


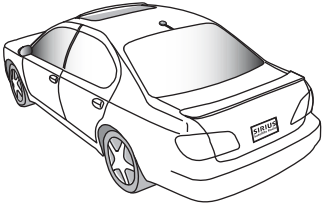
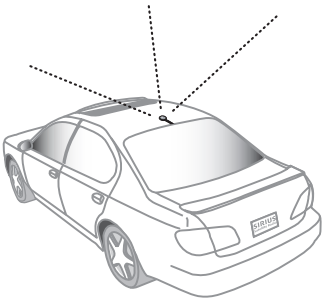
Figure 7

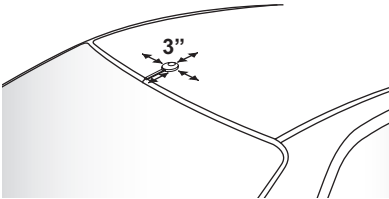
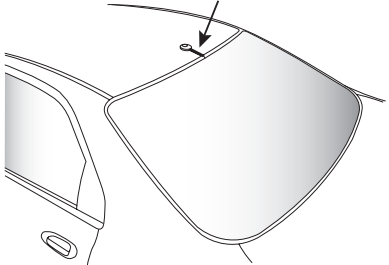
Follow these detailed cable installation instructions:

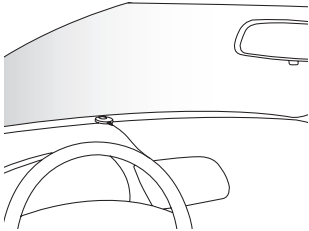
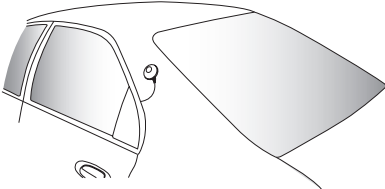
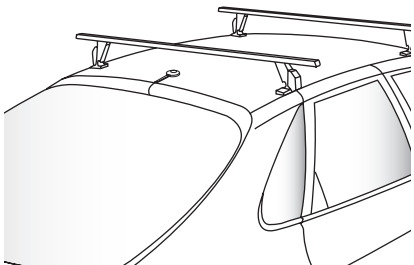
1. Bring the cable from the antenna into the trunk at the front edge of the trunk lid. Keep any bends in the cable loose. Tape or tie the cable along the inside of the trunk lid to the trunk lid hinge strut.
2. Allow enough slack in the cable so the trunk lid can easily open and close and keep the cable away from hinges, gears, etc., that could crimp or cut it. Route the cable along the trunk wall and into the cabin through a conduit or along an existing wiring harness.
3. Route the cable through the main cabin area under the interior trim, towards the front of the vehicle. Use a plastic putty knife to lift the plastic trim just enough to tuck the cable under underneath. Avoid side airbag locations on back pillars and above the doors. (Airbag locations are marked with "SRS" logos.) Be careful not to crimp or cut the cable.
4. Bring the cable out from the trim near the firewall and route it under the carpet toward the dashboard or console. Coil any excess cable in a hidden location, such as under the carpet, keeping it away from any vehicle pedals or controls. Secure the excess cable with wire ties.
5. Bring the end of the cable out at the SIRIUS radio location. Leave yourself enough cable so you can easily connect it to the antenna connector of the SIRIUS radio or vehicle dock.

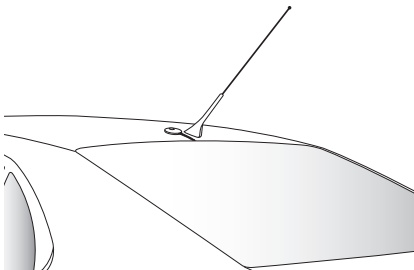
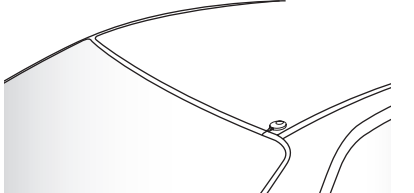
Tips

The following **Do** and **Do Not** antenna mounting tips illustrate how to install the antenna for optimal performance, and also illustrate where the antenna should not be installed.

Do	Mount the antenna on the roof, at least 3 inches from the edge.	 A line drawing of a sedan from a rear three-quarter view. A small antenna is mounted on the roof, positioned towards the rear but clearly away from the edge of the roof.
Do	Mount the antenna on the roof where it has a clear view of the sky in all directions.	 A line drawing of a sedan from a rear three-quarter view. An antenna is mounted on the roof. Three dashed lines radiate from the antenna in different directions, representing a clear view of the sky in all directions.

Do	Mount the antenna on the roof where it has at least 3 inches of clear space around it.	 A line drawing of a car's roof showing the antenna location. A circle with four arrows pointing outwards is labeled "3\"", indicating the required clear space around the antenna.
Do	Use the supplied rubber tail cover to protect the antenna cable.	 A line drawing of a car's rear roof area. An arrow points to a small circular rubber tail cover being applied to the antenna cable. The cover is shown partially overlapping the cable and the roof surface.

Do Not	Don't mount the antenna inside the vehicle, for example, on the dashboard.	 A line drawing of a car's interior from the driver's perspective. An antenna is shown mounted on the dashboard, pointing towards the windshield. The steering wheel and rearview mirror are also visible.
Do Not	Don't mount the antenna on any of the vehicle's front, back or side pillars.	 A line drawing of a car's exterior from the side. An antenna is shown mounted on the side pillar, between the front and rear windows.
Do Not	Don't mount the antenna close to a roof rack. Adjust the rack so it's further away from the antenna or move the antenna closer to the center of the roof.	 A line drawing of a car's roof with a roof rack installed. An antenna is shown mounted on the roof, positioned very close to the roof rack bars.

<p>Do Not</p>	<p>Don't mount the antenna close to another antenna. Mount it at least 3 inches away.</p>	 A line drawing of a car's roof and front quarter. Two antennas are shown: one is a long, thin whip antenna mounted on the roof, and the other is a shorter antenna mounted on the front fender. The two antennas are positioned very close to each other, illustrating the 'Do Not' scenario.
<p>Do Not</p>	<p>Don't mount the antenna closer than 3 inches from the edge of the roof. Use the supplied rubber tail/cover as a guide for judging proper length and correct positioning.</p>	 A line drawing of a car's roof and rear quarter. An antenna is shown mounted on the roof, very close to the edge. A curved rubber tail/cover is shown below the antenna, illustrating the correct positioning and the use of the cover as a guide.

Troubleshooting

Symptom	Solution
SIRIUS receiver displays <i>Antenna Not Detected</i> message	<p>The SIRIUS antenna is not properly connected to the radio or vehicle dock, or the connection has become loose. Check the SIRIUS antenna connection to the radio or dock and make sure it is a good, snug fit.</p> <p>If the antenna is properly connected to the radio or vehicle dock, there may be a break in the cable or a problem with the antenna.</p>
SIRIUS receiver displays <i>Acquiring Signal</i> message.	<p>The SIRIUS antenna is not receiving any signal. Check for obstacles around the antenna and make sure it is mounted in an optimal location. (Refer to the Do and Do Not mounting tips beginning on page 13.)</p> <p>Note: Signal reception can also be hindered if your vehicle is in a covered garage or parking structure or you drive under structures or obstacles such as bridges, overpasses, trees with a lot of foliage etc., for a prolonged period.</p>

Troubleshooting *Continued*

Symptom	Solution
There is static or loss of clarity in the SIRIUS radio's audio signal	<p>If you are using your SIRIUS radio's FM transmitter to wirelessly transmit the audio from your SIRIUS radio to your vehicle's FM radio, the FM channel you selected is most likely being used by a local broadcaster, which is interfering with the performance of your SIRIUS radio. Turn off your SIRIUS radio and tune through the FM channels on your vehicle radio to locate an FM channel (between 88.1 and 107.9 MHz) that is not broadcasting in your area. Once you have located an FM channel that is not broadcasting in your area, save it as a preset on your vehicle radio. This will be your SIRIUS preset. Turn on your SIRIUS radio and locate its FM Frequency adjustments (under "FM Transmitter Options" in Settings or Menu). Set the FM frequency on your SIRIUS radio to match the frequency of the SIRIUS preset on your vehicle radio.</p> <p>Note: To find the best FM frequency with the lowest interference in your home or travel cities, you can also go to http://www.sirius.com and use the My SIRIUS Frequency Finder and search for a suggested FM frequency based on zip code.</p> <p>If you are connecting your SIRIUS radio directly to your vehicle's audio system using an "AUX IN" or "LINE IN" input, the cable may not be properly connected. Make sure the cable is properly connected, both to the "AUX IN" or "LINE IN" connector on your vehicle's audio system and to the "LINE OUT" connector on your SIRIUS radio.</p>

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