Antenna Installation Guide

RV / Trucker
Roof Mount
Cellular Antenna

PART# 301119



Features:

- Multi-band
- Analog and digital
- Improves voice and data signal quality
- Designed for RV's and trucks
- Built-in spring reduces impact damage
- Built-in ground plane allows for mounting on any surface

Wilson® Electronics, Inc.

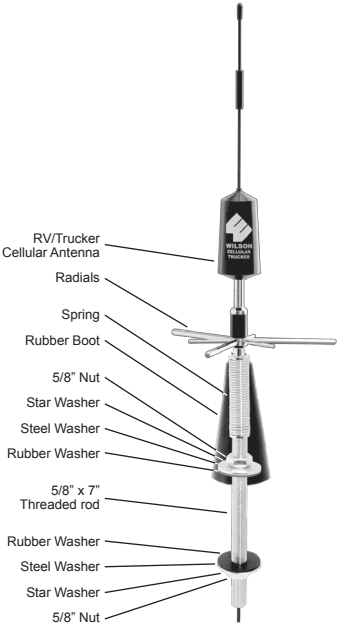
How It Works

Wilson Electronics RV / Trucker Roof Mount Cellular Antenna will collect the cell tower signal and send it through the cable to a signal booster or directly to the cell phone or laptop data card. When the cellular device transmits, the signal is transferred to a signal booster or directly to the antenna and broadcasted back to the cell tower.

Antenna Adapter Required – Sold Separately

A phone/data card-specific, six-inch Antenna Adapter is required when connecting the antenna directly to a cellular device. To identify the correct adapter, see Wilson Electronics Adapter Guide at *www.WilsonElectronics.com* or call Technical Support at 866-294-1660.

Adapter type may vary depending on your cell phone or laptop data card.







Package Contents

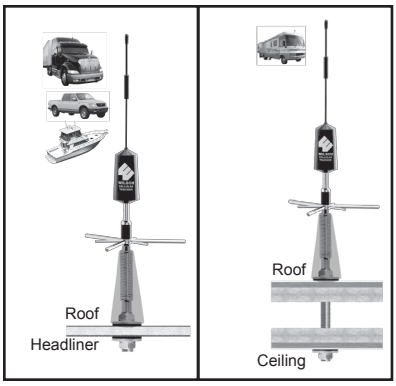
1 - RV / Trucker Antenna	2 - 5/8" nuts
6 - radials (3 short, 3 long)	2 - star lock washers
1 - thread-locker liquid	2 - steel washers
2 - rubber washers	1 - rubber boot
2 - sets of angle mounts	1 - 5/8" x 7" threaded rod

Installing the Antenna

1. Unscrew the 7" threaded rod from the antenna and slide it off the antenna cable. Remove the washers and nuts from the threaded rod. Leave the rubber boot on the antenna.
2. Choose the location to mount your antenna. Some installations may require headliner removal - this is difficult and my require a professional installer. For RV's we recommend mounting your antenna so that the lower hole is hidden inside a cabinet towards the front of the RV. If you are installing on a slanted surface, you will want to use the included angle mounts (see Diagram 1). *If you use the angle mounts, make sure the rubber washers are placed directly against the mounting surface.*
3. Disconnect the vehicle's electrical power. Drill a 5/8" hole up through the roof being careful not to come into contact with electrical wires or air vents. Drill the hole perpendicular to the ground. Avoid following any slant in the roof. (*Antenna should be mounted vertically*).
4. Note that one end of the threaded rod has inside threads. This is the top end that the antenna will screw into after installation of the threaded rod. Put a rubber washer, angle mount (if mounting surface is slanted), steel washer, star washer and nut on top of the threaded rod. Push the threaded rod down through the hole - the side that has inside threads must be on top. If you are mounting on a slanted surface, rotate the angle mounts to account for any gaps.



Contact Wilson Electronics Technical Support Team with any questions at 866-294-1660 or email: tech@wilsonelectronics.com. Hours: 7 am to 6 pm MST.



5. Depending on your application, you may want to cut the threaded rod if it extends too far down from the roof. Alternatively, if the ceiling of your vehicle is thicker than 7 inches, Wilson Electronics offers a 12-inch threaded rod (part #901116), available through your dealer. If you don't want to cut - skip to step 6. The threaded rod is brass and should cut easily. Mark the location of the cut on the lower part of the threaded rod. Leave enough threads to fit the remaining three washers and the nut. Remove the threaded rod from the vehicle. Place a nut onto the threaded rod at the point where you will cut it. **CAUTION:** *Check that you are not cutting into the top end with the inside threads.* Tighten this nut in a vise and cut with a hacksaw. Once the cut is complete, remove the nut from the cut end to de-burr the threads. Use a rat-tail file or knife to de-burr the inside of the rod. This is important because a sharp edge may later cut the cable.

6. Push the threaded rod back down through the hole in the roof. Place a rubber washer, steel washer, star washer and nut onto the lower end of the threaded rod. Tighten the nut until it is snug, but do not over tighten. It may be necessary to have a second person hold the nut on top of the vehicle.
7. Feed the antenna's cable through the center of the threaded rod from the top of the vehicle. Screw the bottom of the antenna to the internal threads of the threaded rod. We recommend that you place a bead of silicone caulking around the outside rubber washer and bottom of the outside nut. Push the rubber boot down over the nut and washers.
8. The six radials should be screwed into the antenna just above the short fiberglass rod. A small amount of the included liquid thread lock on the radial's threads will ensure that they will not vibrate out.
9. Route the cable to the location where you will be using your phone. Attach the adapter (not included) to the female FME connector on the end of the antenna cable.

NOTE: *For best performance, it is important to mount the antenna as high as possible.*

⚠ **Warning:** Mount the antenna at least 8 inches away from any other antennas to avoid interference.

⚠ **Warning:** If using a signal booster, ensure that all antenna and adapter cables are connected before powering up the signal booster.

Technical Support

You may obtain additional help by calling 1-866-294-1660, Monday through Friday between 7:00 AM and 6:00 PM MST.

Disclaimer: The information provided by Wilson Electronics, Inc. is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, Inc. for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

Copyright © 2011 Wilson Electronics, Inc. All rights reserved.

30-Day Money-Back Guarantee

All Wilson Electronics products are protected by Wilson Electronics 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

1-Year Warranty

Wilson Electronics Trucker Roof-Mount Multi-Band Cellular Antenna is warranted for one (1) year against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Antennas may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by Wilson Electronics. Wilson Electronics shall, at its option, either repair or replace the product. Wilson Electronics will pay for delivery of the repaired or replaced product back to the original consumer.

This warranty does not apply to any antennas determined by Wilson Electronics to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

RMA numbers may be obtained by phoning Technical Support at 866-294-1660 or e-mail tech@wilsonelectronics.com.

Antenna Specifications

Part Number	301119
Frequency Range	700-800 MHz / 824-894 MHz / 880-960 MHz /1850-1990 MHz
Impedance	50 ohms
Antenna Gain	3.1 dBi 700-800 MHz / 4.1 dBi 824-894 MHz / 2.0 dBi 880-960 MHz / 5.1 dBi 1850-1990 MHz
Radiation	Omni
Polarization	Vertical
Ground Plane	Built-in Ground Plane
Connector	FME Female
Material	Whip - Stainless Steel
Coax Cable	RG58 - 13.5 feet / 4.115 meters
Height	24 inches including threaded mount / 45.72 cm
Mount	5/8" x 7" threaded mounting rod

Wilson® Electronics, Inc.

3301 East Deseret Drive, St. George, UT 84790
For additional Technical Support visit www.WilsonElectronics.com
or email at: tech@wilsonelectronics.com
Phone: 866-294-1660 Local: 435-673-5021 Fax: 435-656-2432
www.twitter.com/WilsonCellular www.facebook.com/WilsonCellular

Part #103016 AIG RRVT 008 / 06.06.11