

Antenna Installation Guide

NMO Mount Antenna

#311104

#311112

#314203



Features:

- Vehicle use
- Installs Easily
- Permanent installation
- Requires antenna adapter (sold separately)
- Compatible with Wilson Electronics Signal Booster (sold separately)



Wilson Electronics Signal Boosters Amplify Coverage

When used in conjunction with your antenna, a Wilson Signal Booster can improve your cell phone and laptop data card coverage area more than 20 times. Wilson Electronics manufactures a wide range of wireless and direct connect Signal Boosters for mobile or in-building use. See your dealer for details or visit www.WilsonElectronics.com.

How it Works

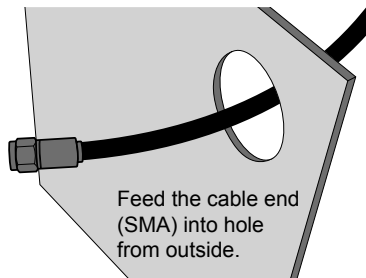
Wilson Electronics NMO Mount antenna will collect the cell tower signal and send it through the cable to a Signal Booster or directly to the cell phone or cellular data card. When the cellular device transmits, the signal is transferred to a Signal Booster or directly to the antenna and transmitted back to the cell tower. See the back cover for information on Wilson Electronics Signal Boosters. An external adapter is required to connect the cell phone or cellular data card to the antenna.

The external adapter is cell phone/data card-specific and may be purchased through a local retailer. Refer to Wilson Electronics Adapter Guide to identify the right adapter for your cell phone or cellular data card. The Adapter Guide is available through a local retailer. It is also available on our website, www.WilsonElectronics.com, or you may call Technical Support at 866-294-1660.

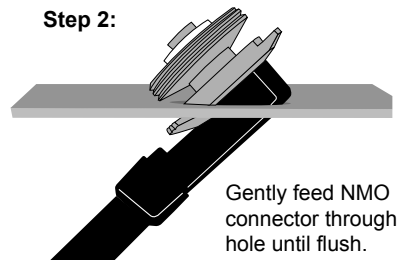
Installing optional NMO Mounts

For installing $\frac{3}{4}$ inch NMO:

Step 1:

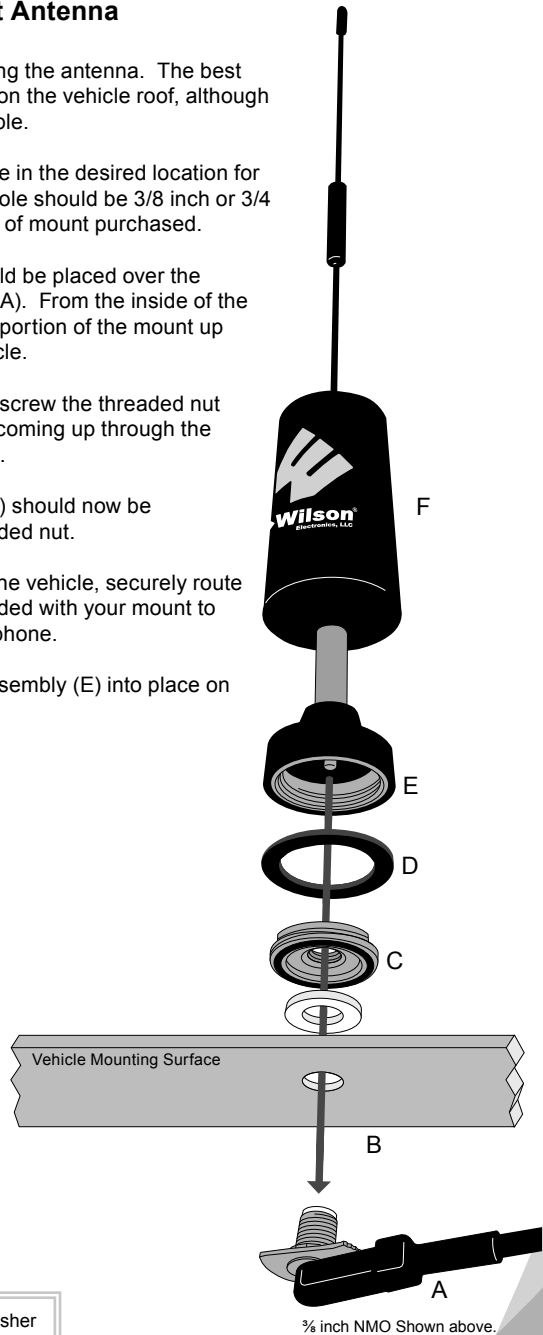


Step 2:



Installing the NMO Mount Antenna

- 1** Select a location for mounting the antenna. The best location would be centered on the vehicle roof, although other locations are acceptable.
- 2** Roof mount only: Drill a hole in the desired location for mounting. The size of the hole should be 3/8 inch or 3/4 inch, depending on the type of mount purchased.
- 3** The plastic washer (B) should be placed over the threads of the NMO mount (A). From the inside of the vehicle, insert the threaded portion of the mount up through the hole in the vehicle.
- 4** From the top of the vehicle, screw the threaded nut (C) onto the mount threads coming up through the roof and tighten until secure.
- 5** The black rubber washer (D) should now be positioned around the threaded nut.
- 6** Working from the inside of the vehicle, securely route and position the cable provided with your mount to your Signal Booster or cell phone.
- 7** Screw the NMO antenna assembly (E) into place on top of the vehicle.



- | | |
|-------------------|------------------|
| A. Roof Mount | D. Rubber Washer |
| B. Plastic Washer | E. NMO Antenna |
| C. Threaded Nut | |

Contact Wilson Electronics Technical Support Team with any questions at
866-294-1660 Or email: tech@wilsonelectronics.com

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.

2-Year Warranty

Wilson Electronics antennas are warranted for two (2) years 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 contacting Technical Support at 866-294-1660.

Disclaimer: The information provided by Wilson Electronics, LLC is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, LLC 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 © 2016 Wilson Electronics, LLC. All rights reserved.
U.S. Patent Nos. – 6,788,261

Antenna Specifications

Part Number	311104	311112	314203
Frequency Range	698-716 MHz / 776-787 MHz / 824-849 MHz /1710-1755 MHz / 1850-1995 MHz	698-716 MHz / 776-787 MHz / 824-849 MHz /1710-1755 MHz / 1850-1995 MHz	698-716 MHz / 776-787 MHz / 824-849 MHz /1710-1755 MHz / 1850-1995 MHz
Impedance	50 ohms	50 ohms	50 ohms
Antenna Gain	-4.1 dBi 698-716 MHz / -0.9 dBi 776-787 MHz / 2.5 dBi 824-849 MHz / -3.5 dBi 1710-1755 MHz / 1.8 dBi 1850-1995 MHz	-3.2 dBi 698-716 MHz / -0.5 dBi 776-787 MHz / 2.5 dBi 824-849 MHz / -2.8 dBi 1710-1755 MHz / -0.7 dBi 1850-1995 MHz	-1.6 dBi 698-716 MHz / 0.5 dBi 776-787 MHz / 1.8 dBi 824-849 MHz / -5.7 dBi 1710-1755 MHz / 0.8 dBi 1850-1995 MHz
Radiation	Omni		
Polarization	Vertical		
Ground Plane	Metal ground plane required		
Connector	SMA		
Material	Whip - Stainless Steel		
Height	13.88 inches / 35.3 cm	13.25 inches / 33.7 cm	13.88 inches / 35.3 cm
Mount	NMO Mount Types (sold separately) 3/8" Hole - Roof Mount (14' RG58) w/ SMA 3/4" Hole - Roof Mount (14' RG58) w/SMA 3/8" Hole - Roof Mount (14' RG174) w/ SMA 3/4" Hole - Roof Mount (14' RG174) w/SMA		

Wilson Electronics, LLC
 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

NOT AFFILIATED WITH WILSON ANTENNA

103040_NMO_Rev31_06-22-16