

MobilePro[®]
Cellular Signal Booster
460113

Need help?



www.WilsonElectronics.com



Tech Support 866-294-1660
Mon. - Fri. Hours: 7 am to 6 pm MST

 IT IS VERY IMPORTANT TO POWER YOUR SIGNAL BOOSTER USING A SURGE PROTECTED AC POWER STRIP WITH AT LEAST A 1000 JOULE RATING. FAILURE TO DO THIS WILL VOID YOUR WARRANTY IN THE EVENT OF A POWER SURGE OR LIGHTNING STRIKE.	 THE SIGNAL BOOSTER UNIT IS DESIGNED FOR USE IN AN INDOOR, TEMPERATURE-CONTROLLED ENVIRONMENT (LESS THAN 150 DEGREES FAHRENHEIT). IT IS NOT INTENDED FOR USE IN ATTICS OR SIMILAR LOCATIONS SUBJECT TO TEMPERATURES IN EXCESS OF 150°F.
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Installation Instructions for the Following Wilson Electronics Signal Booster:

MobilePro® Dual-Band Wireless Smart Technology III™ Signal Booster

Model # 460013 FCC ID: PWO460013 IC: 4726A-460013

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

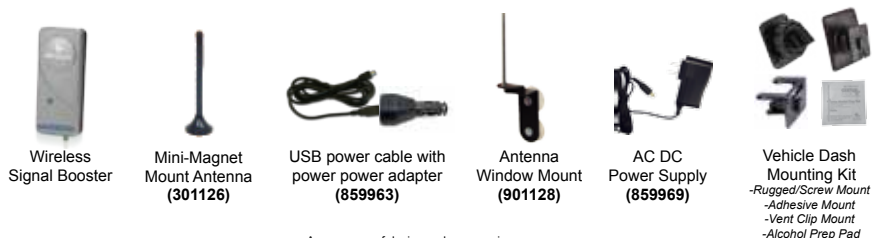
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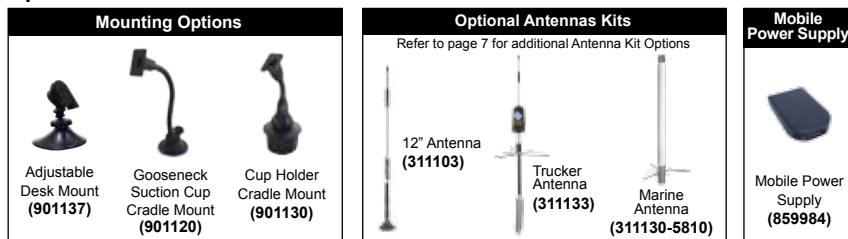
Package Contents

Carrying case included



Appearance of device and accessories may vary.

Optional Accessories



To purchase call 800-204-4104 or go to www.WilsonElectronics.com

Installation Options

Before you start your installation, read through each step of the instructions. Also, watch the installation video at wilsonelectronics.com/MobileProvideo. You can install MobilePro in your vehicle, in your home, office, or in a hotel room or other building using the following steps.

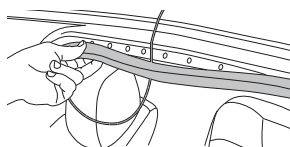
Vehicle Installation Option

1. Install the Outside Antenna. Select a location on top of the car that is:
 - On a magnetic surface, preferably near the center of the vehicle's roof.
 - At least 12 inches from any other antennas.
 - Free of obstructions.
 - At least 6 inches from any windows (including sunroofs).
 - At least 8 inches from any people.

The Outside Antenna must be installed vertically.

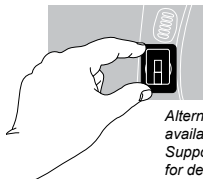


2. Run the Outside Antenna cable into the car. The cable is strong enough that it may be shut in most vehicle doors without damaging the cable. For a cleaner look, carefully pull down the door seal, run the cable under the seal, and push the seal back into place. This method reduces wear on the cable as the door opens and closes.



3. Attach the Adhesive Mounting Bracket to the vehicle's dashboard.

- Clean the area where the bracket is to be mounted with the alcohol wipe included. Allow the area to dry.
- Peel the backing to expose the adhesive and press the bracket onto the desired location on the dashboard. NOTE: Be sure the tab is positioned vertically.

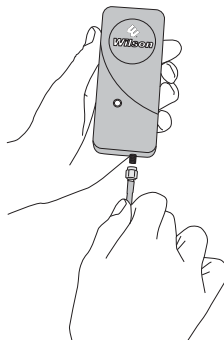


Alternative mounting options available. Contact Tech Support at 866-294-1660 for details.

4. Attach the MobilePro signal booster to the Mounting Bracket. After waiting 24 hours for the adhesive on the bracket to cure, attach the signal booster by aligning the rectangular hole on the back of the signal booster with the tab on the Mounting Bracket, grasping the sides of the signal booster, and sliding it downward approximately $\frac{1}{4}$ inch into place. The Mounting Bracket is designed to swivel for more convenient viewing angles. Once the signal booster is in place, you can adjust the angle of the bracket by loosening the knurled nut, applying gentle pressure to the top or bottom of the signal booster, and then tightening the nut when the desired angle is achieved.



5. Attach the antenna cable to the antenna connector on the bottom of the signal booster. The antenna cable must be connected before going to the next step.



6. Power up your MobilePro. Connect the power cable to the mini-USB port on the bottom of the signal booster. Connect the other end of the power cord to the DC adapter and insert the adapter into the vehicle 12V DC power source. Use only the supplied Wilson Electronics power supply. While the MobilePro may remain on in a vehicle when it is not running may discharge the battery in a day or two. Also note that some 12V DC power sources are shut down when the vehicle ignition is turned to off.



Alternative Mounting for Weak Signal Areas.

If you know you drive through particularly weak signal areas, you may want to mount your signal booster closer to your cell phone when in use. To do this, attach a strip of double-sided Velcro (available at most hardware or fabric stores) to the back of the MobilePro and to your center console of your vehicle. Press MobilePro to console.



Installation Options

In-Building Installation Option

1. Install the antenna to a window. These instructions are for use with the Wilson Electronics Magnet-Mount or Mini-Magnet Mount Antenna. If you purchased a different antenna separately, follow the instructions included with that antenna.

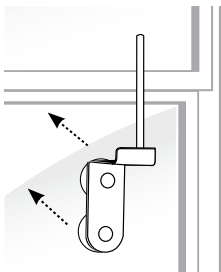
- Select a window on the side of the building where you get the strongest cell signal. You can determine the strongest signal area by walking around the building and checking the bars on your mobile phone. You should wait 30 seconds for new signal strength to register. For a more accurate method of determining signal strength, read the instructions at <http://www.wilsonelectronics.com/test-mode-instructions>.

WAIT 30 SECONDS



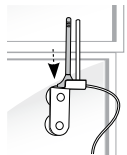
- Clean a spot as high on the designated window as possible with the alcohol prep pad.

Attach the suction cup bracket to the cleaned spot on the inside of the window.

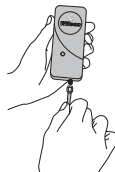


NOTE: Many newer energy efficient windows use a metal coating that may decrease the strength of a cellular signal, reducing the effectiveness of the MobilePro. If you have dual pane windows, consider a Wilson Electronics signal boost product that provides an option for mounting an antenna on an outside wall or roof of a building.

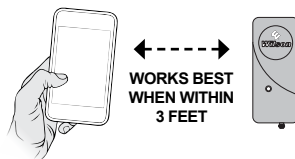
- With the bracket in place, attach the magnet base of the antenna to the flat surface of the bracket. The antenna must be mounted vertically for the best signal.



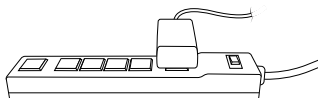
2. Attach the antenna to the MobilePro signal booster. Connect the cable from the antenna to the connector on the bottom of the signal booster. Do NOT plug in the power supply (step 4) until the antenna cable is connected to the MobilePro signal booster.



3. Place the MobilePro signal booster in a convenient location close to your cellular device. This can be on a desk, a tabletop, a shelf, or the optional desktop mount (sold separately). The MobilePro works best when within three feet of your mobile device.



4. Connect the MobilePro to a power supply. Attach the AC power cord to the mini-USB port on the bottom of the signal booster. Plug the AC power cord into a surge protected power strip.



Understanding the MobilePro Signal Booster Light

The light on the front of the MobilePro signal booster indicates whether the system is working or if there are problems. Take the following steps based on the indicator light color when using the MobilePro signal booster.

Light off: If the light is not on:

- Check connections on the power supply to see that it is firmly plugged into both the signal booster and the power source.
- If using a DC power supply in your vehicle, ensure the power supply is properly inserted. Then check the 12 volt power from the car socket and the fuse. Replace the fuse if necessary.
- If using a power strip in a building, ensure the power strip is plugged in and turned on and that power is coming from the outlet.

Red light: A red light indicates the MobilePro has powered down to protect the cell tower from oscillation (feedback). You may need to move the antenna farther from the signal booster to prevent further oscillation.



In a vehicle, that usually means moving the antenna farther toward the back of the car. Remember to keep the antenna at least 6 inches from any window or sunroof.

In a building, move the location of the MobilePro farther from the window where the antenna is mounted. Once you have separated the antenna and the signal booster, reset the MobilePro by disconnecting the power and then reconnecting the power supply. If the light is green, the MobilePro is working properly. If the red light is still on, move the Outside Antenna farther away and repeat the process.

Green light: A green light indicates the MobilePro is working properly.

If you have additional questions about the installation or operation of your MobilePro signal booster, please contact the Wilson Electronics technical support team at 866-294-1660 or email tech@wilsonelectronics.com.

Recommended Additional FAQ:

What hours can I contact tech support?

Technical Support can be reached from 7:00am to 6:00pm MST, by calling (866-294-1660), or by email, at tech@wilsonelectronics.com

How does weather affect the performance of my Outside Antenna?

Water vapor (e.g. rain, fog, snow or other precipitation) creates an effective filter to cellular signal. In times of heavy precipitation, you may see less performance.

What's the difference between the 800 MHz and the 1900 MHz bands? How do I know which MHz band my cell phone uses?

The MobilePro works with all major North American cellular providers on the 800 & 1900 MHz frequencies. Traditionally, 800/1900MHz are associated with voice and 3G data; while 700MHz and 1700/2100MHz are associated with 4G data. For more detail see below.

United States Carrier Frequency Use

We recommend visiting www.wirelessadvisor.com for information regarding the frequency band used by your cell service provider in a specific geographical location.



Antenna Kit Options

Mini-Mag

301126 w/12.5 RG174 cable-SMA

301113 w/12.5 RG174 cable-FME

12" Mag Mount

311103 w/12.5' RG174

311125 w/12.5' RG174

311128 w/12.5' RG174

314202 w/12.5' RG174

311703 w/12.5' RG174

Trucker Antenna

311101 w/10.5' RG58

311701 w/10.5' RG58

311119 w/13.5' RG58

311133 w/13.5' RG58

NMO Antenna's

Kit 311104-17410

- 800/1900 NMO antenna

- 10' RG174 cable

Kit 311112-17410

- 800/1900 NMO antenna

- 10' RG174 cable

Kit 314203-17410

- 800/900/1900 NMO antenna

- 10' RG174 cable

Marine Antenna

Kit 311130-5810

- marine antenna

- 10' RG58 cable

Glass Mount

311114 (Mini Glass Mount)

w/14' RG58 cable

311102 w/14' RG58 cable

NMO Antenna's

Kit 311104-5810

- 800/1900 NMO antenna

- 10' RG58 cable

Kit 311112-5810

- 800/1900 NMO antenna

- 10' RG58 cable

Kit 314203-5810

- 800/900/1900 NMO antenna

- 10' RG58 cable

Kit 311104-40015

- 800/900/1900 NMO antenna

- 15' LMR400 cable

Kit 311112-40015

- 800/900/1900 NMO antenna

- 15' LMR400 cable

Kit 314203-40015

- 800/900/1900 NMO antenna

- 15' LMR400 cable



Safety and Recommendations

 **WARNING:** Connecting the Signal Booster directly to the cell phone with use of an adapter will damage the cell phone.

 **WARNING:** Use only the power supply provided in this package. Use of a non-Wilson Electronics product may damage your equipment.

 **WARNING:** The Signal Booster unit is designed for use in an indoor, temperature-controlled environment (less than 150 degrees Fahrenheit). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

 **RF SAFETY WARNING:** Any antenna used with this device must be located at least 8 inches from all persons.

This is a **CONSUMER** device.

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from any person.

You **MUST** cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device complies with Part 15 of FCC rules. Operation is subject to 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. Changes or modifications not expressly approved by Wilson Electronics could void the authority to operate this equipment.

Each Signal Booster is individually tested and factory set to ensure FCC compliance. The Signal Booster cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Booster will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Booster is not in use for five minutes, it will reduce gain until a signal is detected. If a detected signal is too high in a frequency band, or if the Signal Booster detects an oscillation, the Signal Booster will automatically turn the power off on that band. For a detected oscillation the Signal Booster will automatically resume normal operation after a minimum of 1 minute. After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Booster has been manually restarted by momentarily removing power from the Signal Booster. Noise power, gain, and linearity are maintained by the Signal Booster's microprocessor.



Signal Booster Specifications

	MobilePro®	
Model Number	460013	
Connectors	SMA	
Antenna Impedance	50 Ohms	
Frequency	824-894 MHz/1850-1990 MHz	
Passband Gain (nominal)	800 MHz 40.8	1900 MHz 41.7
20 dB Bandwidth (MHz)	800 MHz	1900 MHz
Typical	40.4	83.3
Maximum	41.5	84.6
Power output for single cell phone (dBm)	800 MHz	1900 MHz
Uplink	26.9	26.2
Downlink	-3.5	2.2
Power output for multiple received channels (Uplink) dBm	800 MHz	1900 MHz
No. Tones		
2	25.8	18.5
3	22.3	14.9
4	19.8	12.4
5	17.9	10.5
6	16.3	8.9
Power output for multiple received channels (Downlink) dBm	800 MHz	1900 MHz
No. Tones		
2	-5.2	0.9
3	-8.7	-2.6
4	-11.2	-5.1
5	-13.1	-7.1
6	-14.7	-8.7
Noise Figure (typical downlink/uplink)	3 dB nominal	
Isolation	> 90 dB	
Power Requirements	5 V 1.5 A	

The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.



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 Signal Boosters 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.

Signal Boosters 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 if located within the continental U.S.

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

Failure to use a surge protected AC Power Strip with at least a 1000 Joule rating will void your warranty.

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.

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U.S. Patent Nos.– 7,221,967; 7,729,669; 7,486,929; 7,409,186; 7,783,318; 8,583,034; 8,583,033; D596,614



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