Signal Booster Installation Juliae



Sleek

Dual-Band SmarTech II™ Booster

U.S. Patent Nos. – D626,953; 7,684,838; 7,221,967; 7,729,669; 7,486,929; 7,729,656; 7,409,186; 7,783,318

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To boost your phone's signal power, the phone must be placed in the Sleek cradle. For best results, use a Bluetooth® headset or hands free device, while the phone remains in the Sleek.

Note: This manual contains important safety and operating information. Please read and follow the instructions in this manual. Failure to do so could be hazardous and result in damage to your Sleek.

Appearance of device and accessories may vary.



Model #460006 FCC: PWO460006 IC: 4726A-460006

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. FCC requires to never use the cell phone in the cradle next to your ear.

Inside this Package



Sleek®



Mini-Magnet Mount Antenna (301126)



DC Plug-In Power Supply & USB cable (859963)



Vehicle Dash Adhesive Mounting Bracket



Adjustable Arms

Accessories for your Sleek®



AC Power Supply *(859969)



(Used with Mini-Magnet Mount Antenna) *(901128)



Desk Mount *(901137)



Suction Cup Cradle Mount (901120)



Cup Holder Cradle Mount (901130)



Vehicle Dash Mounting Kit -Rugged/Screw Mount--Adhesive Mount--Vent Clip Mount-(901134)

* All 3 available together in the Home Accessory Kit - 859970 (included in some kits) Carrying case included

Supply

(859984)

Appearance of device and accessories may vary. (This product is not marketed by Verizon Wireless or AT&T).

Mobile Antennas

Mini-Mag

- 301126 w/ 12 5 RG174 cable- SMA · 301113 w/ 12.5 RG174 cable - FME
- 12" Mag Mount w/ 12.5' RG174
- 311125
- 311128
- 311703 • 314202
- Trucker antenna w/10.5' RG58
 - 311101
- Trucker antenna w/13.5' RG58
 - 311119 • 311133

NMO Antenna's w/ RG174

- 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 w/ RG58
- Kit 311130-5810
- Marine Antenna
- 10' RG58 cable
- Glass Mount w/14' RG58 cable
- 311102
- · 311114 (Mini Glass Mount)
- NMO Antenna's w/ RG58 Kit 311104-5810
- 800/1900 NMO antenna

- Kit 311112-5810
 - 800/1900 NMO antenna • 10' RG58 cable
- Kit 314203-5810
- 800/900/1900 NMO antenna
- 10' RG58 cable

NMO Antenna's w/ LMR400

- Kit 311104-40015
 - 800/1900 NMO antenna 15' LMR400 cable
- Kit 311112-40015

 - 800/1900 NMO antenna
 - 15' I MR400 cable
- Kit 314203-40015
- 800/900/1900 NMO antenna
- 15' I MR400 cable

Outside Fixed Antennas

50 Ohm Outside Antenna Kits Kit 314453-5825

- 50 Ohm Pole Mount Panel Antenna 25' RG58 Cable
- Kit 314411-5825
- 50 Ohm Wide Band Directional
- 25' RG58 Cable Kit 301111-5850
- · Yagi Directional Antenna
- 50' RG58 Cable
- Kit 311124-5840
- 1900 MHz Yaqi Directional
- 40' RG58 Cable
- Kit 311203-5820 · Omni-Directional antenna
 - 20' RG58 Cable

- Kit 311129-5830
 - 800 MHz Yagi Antenna 30' RG58 Cable
- Kit 314411-40075
 - 50 Ohm Wide Band Directional
 - 75' LMR400 Cable
- Kit 311203-40020
 - · Omni-Directional antenna
 - 20' LMR400 Cable
- Kit 301111-400170
- · Yaqi Directional w/ N-Female
- 170' LMR400
- Kit 311124-400100 • 1900 MHz Yagi Directional
- 100' I MR400 Cable
- Kit 311129-400100
 - 800 MHz Yaqi Antenna
 - 100' LMR400 Cable
- Kit 314453-40075
 - 50 Ohm Pole Mount Panel Antenna
 - 75' I MR400 Cable

75 Ohm Outside Antenna Kits Kit 301111-0675

- · Yagi Directional Antenna
- 75' RG6 Cable
- · N-Male to F-Female adapter
- Kit 311201-0620 Omni Directional w/ F-Female
- 20' RG6 Cable
- Kit 311124-0660
 - 1900 MHz Yagi Directional
 - 60' RG6 Cable
- · N-Male to F-Female adapter Kit 311129-0650
 - 800 MHz Yagi Directional
- 50' RG6 Cable N-Male to F-Female adapter

- Kit 314473-0640
 - 75 Ohm Pole Mount Panel Antenna
- 40' RG6 Cable Kit 314475-0630
- 75 Ohm Wide Band Directional
- 30' RG6 Cable
- Kit 311141-0620
- 75 Ohm Grev Brick Antenna
- 20' RG6 Cable
- Kit 301111-11140 · Yagi Directional Antenna
 - 140' RG11 Cable · N-Male to F-Female adapter
- Kit 311201-1120

 - · Omni Directional w/ F-Female
- 20' RG11 Cable
- Kit 311124-11110 1900 MHz Yaqi Directional
 - 110' RG11 Cable N-Male to F-Female adapter
- Kit 311129-1180
 - 800 MHz Yaqi Directional • 80' RG11 Cable . N-Male to F-Female adapter
- Kit 314473-1175
 - 75 Ohm Pole Mount Panel Antenna
 - 75' RG11 Cable
- Kit 314475-1175
 - 75 Ohm Wide Band Directional
 - 75' RG11 Cable
- Kit 311141-1120 • 75 Ohm Grey Brick Antenna
 - 20' RG11 Cable

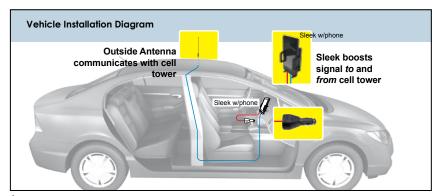
General

Your Wilson Electronics Sleek has been carefully engineered to significantly improve the performance of your phone. Together with an Outside Antenna, the Sleek's state-of-the-art circuitry is designed to increase your phone's signal to and from the cell tower. The Sleek reduces disconnects and dropouts and increases data communication rates on 2G, 3G networks and 4G networks (in some models).

How it Works

With the phone in the cradle and while using a wireless Bluetooth™ headset (or hands free device) the Outside Antenna collects the cell tower signal and sends it through the cable to the Sleek. The signal is then boosted by the Sleek and sent to the phone. When the phone transmits, the signal is picked up wirelessly and boosted by the Sleek and transmitted back to the cell tower through the Outside Antenna.

NOTE: The cell phone must be placed in the cradle to work properly.



Warning: DO NOT use phone covers that have chrome or any other metallic surface. It may block cellular signals.

Vehicle Installation

1. Install the Outside Antenna

To receive the best cell signal, select a location for the Outside Antenna that is preferably in the center of the vehicle's roof. 12 inches away from any other antennas, free of obstructions, and at least 6 inches from the rear or side windows or sunroof



The Outside Antenna must be installed vertically. Antenna performance will be degraded if the antenna is not vertical.

The antenna cable is small yet strong enough that it may be shut in most vehicle doors without damaging the cable



For a more professional looking installation, run the antenna cable under the door seal. Carefully pull down the door seal. Run the cable under the seal and push the seal back into place. This prevents constant wear and tear on the cable as the door opens and closes. The antenna cable is small enough to easily tuck under the door seal or plastic molding.

2. Attach the Mounting Bracket

A mounting bracket is provided for attaching the Sleek to your vehicle's dash. Other options are also available from Wilson Electronics.



ADHESIVE BRACKET- Included in this package

- 1. Clean the area where the bracket is to be mounted with the supplied alcohol wipe. Allow to dry.
- 2. Peel the backing to expose the adhesive and press the bracket onto the desired location in the vehicle. Note: Be sure the tab is positioned vertically, not horizontally.
- 3. Allow the adhesive to cure for 24 hours before you attach the Sleek.

3. Attach the Sleek® to the Bracket

Once you have installed the bracket in the desired location, and waited 24 hours for adhesive to cure, attach the Sleek by aligning the rectangular hole on its back with the tab on the mount bracket, grasping the sides of the Sleek, and sliding it downward approximately 1/4 inch into place.

Once the cradle is attached, you can adjust the angle of the adhesive bracket by applying gentle pressure to the top or bottom of the Sleek. The bracket is designed to swivel when the knurled nut is loosened for greater adjustability of the Sleek viewing angle. To lock bracket into position, tighten large nut.



4. Attach the Outside Antenna cable to the Sleek®

Attach the cable from the Outside Antenna to the antenna connector on the Sleek. (See Figure 1)

Power up the Wilson Electronics Sleek®

Accessory port to power your phone, some adapters available through Wilson Electronics at 866-294-1660. (See Figure 2)

Connect the mini-USB plug on the power cable to the Sleek's mini USB port located on the bottom of the Sleek and insert the adapter into the vehicle power adapter of your vehicle. The Sleek may remain on all the time. However, leaving the Sleek on in a vehicle when it is not running can discharge the battery in a day or two.

Note: The 12V DC power source on many vehicles is shut off with the ignition key.



Warning: Use only the supplied Wilson Electronics power

supply.

Warning: Make sure the Outside Antenna cable is connected before powering up the Sleek.



Sleek Power port. Connect the Wilson Electronics's power supply



Adjusting the Sleek® Arms

Included with your Sleek are various sized arms, which will provide you with multiple options to customize the Sleek to fit your phone.



1. Change arms

Gently grab the arm and lift upward until the arm slides free from the Sleek.



2. Reposition arms

Position the arm above a different slot on the Sleek (indicated by the yellow in the drawing). Gently slide the arm down until the arm is firmly in place.

NOTE: The cell phone must be placed in the Sleek to work properly. Use a Bluetooth™ or wired hands free device.

Understanding the Sleek® Lights

Separation of the Sleek and the Outside Antenna is very important. In a vehicle, the metal roof acts as a barrier and helps shield the two antennas from each other, preventing oscillation (feedback).

Oscillation can occur when the roof mounted antenna is too close to the Sleek inside the vehicle. An oscillation (or feedback) in the Sleek is similar to when a microphone is too close to a speaker in a sound system, resulting in a loud whistle. An oscillation in the Sleek, if allowed to occur, can affect nearby cell towers' ability to handle calls.

Green light is on: Sleek is operating properly.

SYMPTOM: No light, or light always off

- Make sure that the power supply for the Sleek is functioning properly, by making sure the light located on the power supply is lit.
- If the DC plug-in power supply is properly inserted, but the plug's light doesn't come on, then check the 12 volt power from the car socket, and check the fuse in the DC plug-in power supply.

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Sleek® SYMPTOM: Red light is on

If the light is red, the Sleek has powered down to protect the cell tower. See section above "Separation of Sleek and the Outside Antenna is very important." If the light turns red, the Sleek has powered down to protect the cell tower from oscillation. The red light indicates the outside roof mounted antenna needs to be moved farther from the Sleek. In a vehicle installation, move the Outside Antenna on the roof of the car farther to the rear of the car, but at least 6 inches from the rear or side windows or sunroof. To reset the Sleek, disconnect and reconnect the power supply. If the light is now green, the Sleek is working properly. If the red light is still on, move the Outside Antenna farther away and repeat the process.

Troubleshooting

SYMPTOM: No increase in bars

- 1 Make sure that the antenna connector is tight.
- 2. The cell phone must be placed in the Sleek cradle to amplify properly.
- 3 Call Wilson Electronics Technical Support at 866-294-1660.



Warning: DO NOT use phone covers that have chrome or any other metallic surface. It may block cellular signals

In-Building Installation

Installing a Wilson Electronics Outside Antenna in a Building

Follow the specific antenna instructions included with the Outside Antenna. These instructions assume that you are using a Wilson Electronics Mini-Magnet Mount Antenna and the optional suction cup window bracket.

To receive the best signal, select a window on the side of your building where your outside signal is the strongest.



Attach the suction cup bracket to the inside of a window so that the cable will reach the location of the Sleek. Place the bracket as high on the window as possible for best performance.

Once the bracket is in place, attach the magnet base of the antenna to the flat surface of the bracket. **Note:** The antenna must be installed vertically._πSignal performance will be degraded if the antenna is not vertical.

Installing the Wilson Electronics Sleek® Signal Booster in a Building

The Wilson Electronics Sleek may be placed in any convenient indoor location, such as a desk or tabletop. The cell phone or data card must be in the cradle and use a Bluetooth™ headset or wired hands free device for voice communications

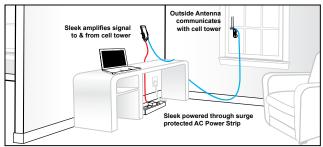
Attaching the Antenna

Once you have selected the location for the Sleek, run the cable from the outside antenna and attach it to the SMA connector on the bottom of the Sleek.

Note: The cell phone must be placed in the Sleek cradle to amplify properly.



Warning: The Sleek® and the Outside Antenna must have a minimum separation of 3 feet to prevent oscillation.



IMPORTANT NOTICE

- 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.



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

Warnings

Warning: DO NOT plug in the power supply until the Outside Antenna cable is attached to the Sleek.



Warning: RF Safety: Any antenna used with this device must be located at least 8 inches from all persons and can be found on pages 1 of the Install Guide.



Warning RF Safety: The FCC requires that a cell phone with cradle attached may only be used with the cradle mounted as illustraged in this installation guide. A cell phone held near the ear must be without the cradle atttached.



Warning: DO NOT use phone covers that have chrome or any other metallic surface. It may block cellular signals.



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 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. Changes or modifications made that are not expressly approved by Wilson Electronics could void authority to operate this equipment.

About Wilson Electronics

Wilson Electronics, LLC has been a leader in the wireless communications industry for over 40 years. The company designs and manufactures Signal Boosters, antennas and related components that significantly improve cellular phone signal reception and transmission in a wide variety of applications, mobile (marine, RV, vehicles) and in-building (home, office, machine to machine).

With extensive experience in antenna and Signal Booster research and design, the company's engineering team uses a state-of-the-art testing laboratory, including an anechoic chamber and network analyzers, to fine-tune antenna designs and performance. For its Signal Boosters, Wilson Electronics uses a double electrically shielded RF enclosure and cell tower simulators for compliance testing.

Wilson Electronics Signal Boosters feature patented Smart Technology II™ that enables them to automatically adjust their power based on cell tower requirements. By detecting and preventing oscillation (feedback), signal overload and interference with other users, these Smart Technology II™ Signal Boosters improve network cell phone areas without compromising carrier systems.

All products are engineered and assembled in the company's 100,000-square-foot headquarters in St. George, Utah. Wilson Electronics has product dealers in all 50 states as well as in countries around the world.

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 issues 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 within the continental United States.

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. Copyright © 20/3 Wilson Electronics, LLC. All rights reserved.

Signal Booster Specifications

| Model Number | 460006 | |
|---|---------------------------|---------------|
| Connectors | SMA-Female | |
| Antenna Impedance | 50 Ohms | |
| Frequency | 824-894 MHz/1850-1990 MHz | |
| ³ Power output for single cell phone (dBm) | 800 MHz | 1900 MHz |
| Uplink Downlink | 22.9 -28.0 | 25.2 -29.1 |
| Noise Figure (typical downlink/uplink) | 3 dB nominal | |
| Isolation | > 40 dB | |
| Power Requirements | 5.5 V 1A | |

Each Signal Booster is individually tested and factory set to ensure FCC compliance. The Signal Booster cannot be adjusted without factory reprogramming or disabiling 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 exempent of the signal Booster in the signal Booster will automatically exempent or setters, any premarked that 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 is microprocessor.

Wilson Electronics, LLC
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