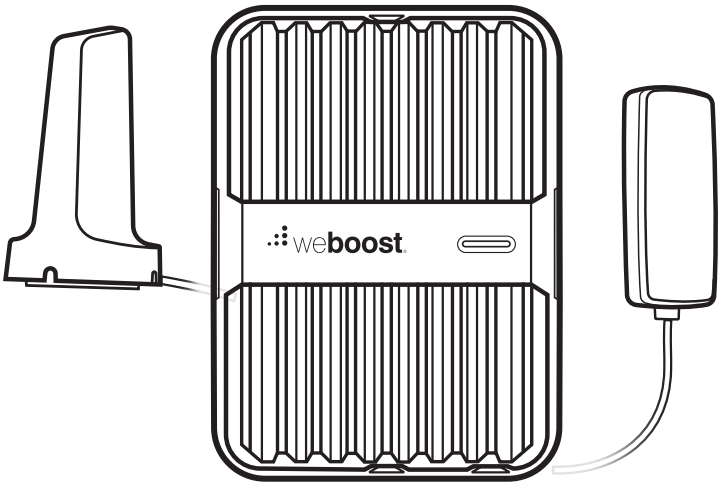
weboost
A WILSON ELECTRONICS BRAND

DRIVE REACH

Vehicle Signal Booster Kit



Installation Guide

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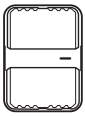
Package Contents



Booster

Outside Antenna

Inside Antenna

Power Supply

Optional: Adhesive disk for aluminum vehicles

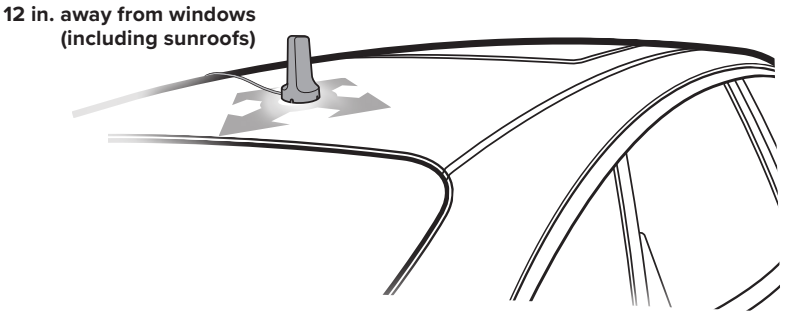
Step 1: Mount Outside Magnetic Antenna

Identify a location on the top of your vehicle that is:

- Near the center of the roof
- At least 12 inches away from any other antennas
- At least 12 inches away from any windows (including sunroofs)

Clean the surface where you will place the outside antenna.

Mount the outside antenna by placing on top of vehicle.

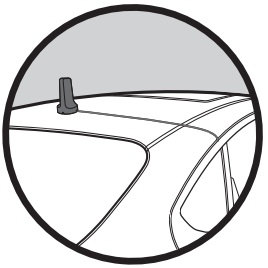


NOTE: For aluminum roofs, an **adhesive disk** is included to mount the outside antenna (do not use if outside antenna will magnetize to the top of your vehicle).

WORKS WITH ALL VEHICLES

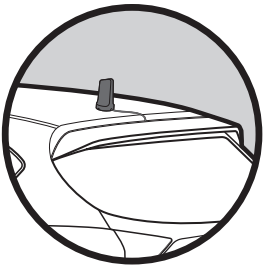
(STEP 1 cont.)

See options below on how cable can be routed with different vehicles.

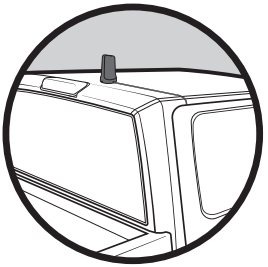


Car/Sedan: Cable routed into rear side door.

NOTE: When going through a car wash, remember to remove your antenna.

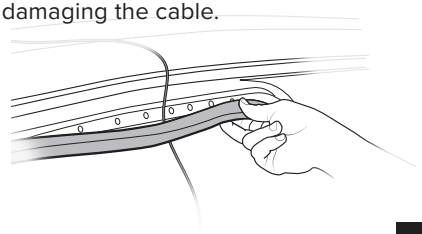


SUV/Van/Hatchback: Cable routed into top of hatchback door.



Truck: Cable routed into side door.

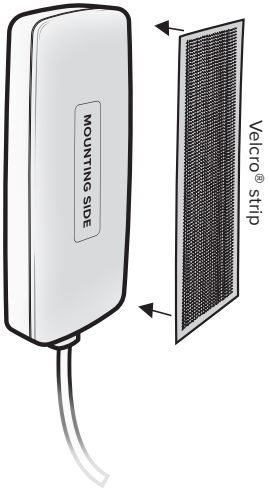
NOTE: The cable is strong enough that it may be routed under weather stripping and shut in most vehicle doors without damaging the cable.

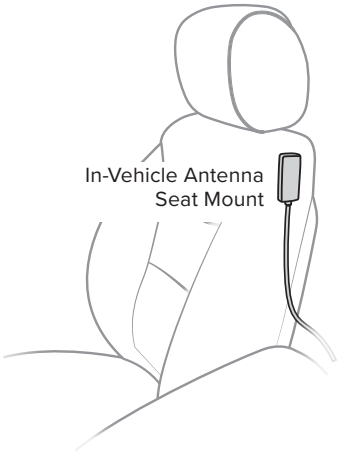


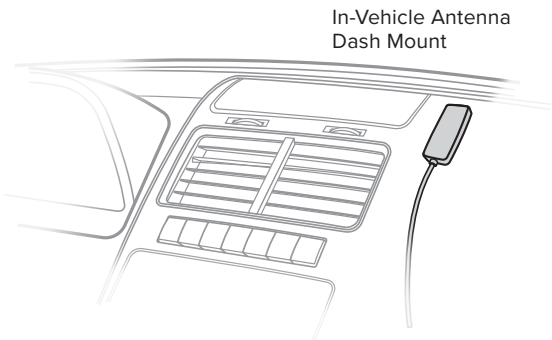
Step 2: Mount Inside Antenna

Identify a place to mount the In-Vehicle Antenna, either on the side of the seat or on the dash and mount. The location should be at least 18 inches but no more than 36 inches from where the cellular device will be used. Use the Velcro® adhesive strip or the 2-sided adhesive strip provided and attach to the side of the antenna labeled “MOUNTING SIDE”. Then mount to desired location.

WARNING: DO NOT MOUNT WHERE AIRBAGS WILL DEPLOY.



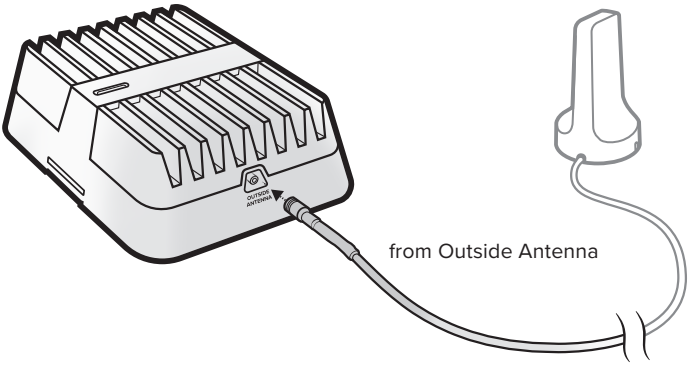




Step 3: Connect Outside Antenna To Booster

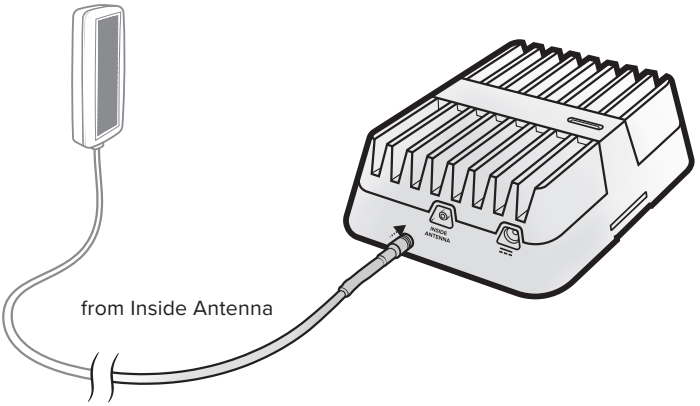
Connect the cable from the Outside Antenna to the port labeled “Outside Antenna” on the Drive Reach booster.

NOTE: The Velcro® strip on the bottom of the booster can also be used to keep booster from sliding around.



Step 4: Connect Inside Antenna To Booster

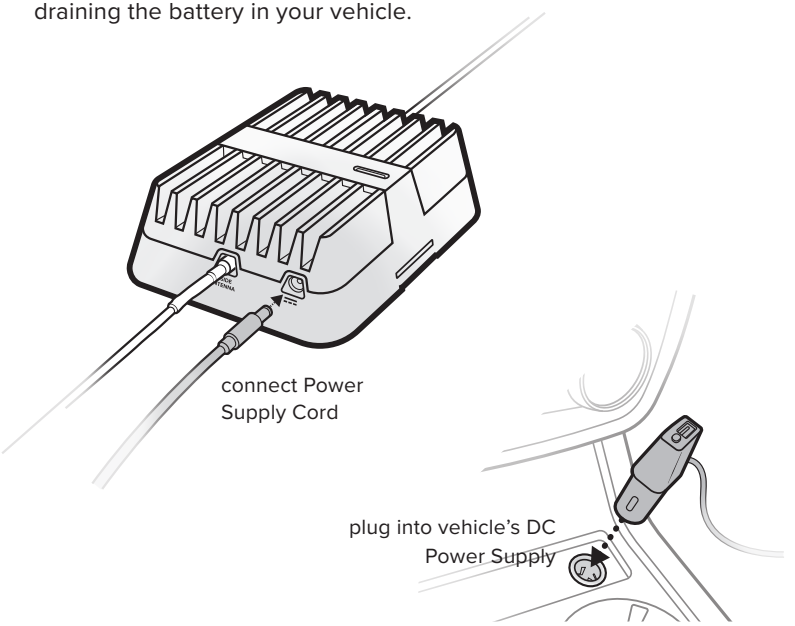
Connect the cable from the In-Vehicle Antenna to the port labeled “Inside Antenna” on the booster.



Step 5: Connect Power Supply To Booster

Connect the power supply cord to the end of the booster, labeled " ⎓ ", then plug the power adapter into vehicle's 12V DC power supply. The Drive Reach will automatically power on when plugged in. If your Drive Reach is working correctly, the light on the power adapter will be red, and the light on the booster will be green. **Use only the power supply provided in this package.**

NOTE: If the 12V Cigarette Lighter port on your car is always on (even when your vehicle is turned off) and you will be parking for extended periods of time (more than a day), we recommend you turn the booster off by pushing the LED light, which is also a button. This will prevent the Drive Reach from draining the battery in your vehicle.



Booster Light Patterns

Solid Green

This indicates that your booster is functioning properly and there are no issues with installation.

Blinking Red, Then Solid Green

This indicates that one or more of the booster bands has reduced power due to a minor feedback loop condition called oscillation. This is a built in safety feature to prevent harmful interference with a nearby cell tower. If you are already experiencing the desired signal boost, then no further adjustments are necessary. If you are not experiencing the desired boost in coverage then refer to the Troubleshooting section.

Solid Red

This is due to a major oscillation (feedback) loop. This is a built in safety feature that causes a band to shut off to prevent harmful interference with a nearby cell tower. Refer to Troubleshooting section.

Light Off

If the Drive Reach Signal Booster's light is off, verify your power supply has power.

NOTE: The Signal Booster can be reset by disconnecting and reconnecting the power supply.

After troubleshooting you must initiate a new power cycle by disconnecting and then reconnecting power to the Booster.

NEED HELP? support.weboost.com 866.294.1660

Troubleshooting

FIXING BLINKING OR SOLID RED ISSUES

This section is only applicable if the booster is red or blinking red and you are not experiencing the desired signal boost.

1. Unplug the Booster's power supply.
2. Relocate the inside and outside antenna further from each other. The objective is to increase the separation distance between them, so that they will not create this feedback condition discussed before.
3. Plug power supply back in.
4. Monitor the indicator light on your booster. If, after a few seconds of 'power on', a solid or blinking red light appears, repeat steps 1 through 3. Increase the separation distance until the condition is corrected and/or desired coverage area is achieved. Note: Horizontal separation of the two antennas typically requires a shorter separation distance than vertical separation.
5. If you are having any difficulties while testing or installing your booster, contact our weBoost Customer Support team for assistance (866.294.1660).

FREQUENTLY ASKED QUESTIONS

How can I contact customer support?
Customer Support can be reached Monday thru Friday by calling **866.294.1660**, or through our support site at support.**weboost**.com.

Why do I need to create distance between the booster and the antenna?
Antennas connected to a booster create spheres of signal. When these spheres overlap, a condition called oscillation occurs. Oscillation can be thought of as noise, which causes the booster to scale down it's power or shut down to prevent damage. The best way to keep these spheres of signal from overlapping is to maximize separation between the inside and outside antennas.

Safety Guidelines

⚠ Warnings

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

Connecting this signal booster directly to the cell phone with use of an adapter will damage the cell phone.

RF Safety Warning: Any antenna used with this device must be located at least 8 inches from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.

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 licensed wireless service provider.

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

FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL AMPLIFIER WITH YOUR WIRELESS PROVIDER, PLEASE SEE BELOW:

Sprint: http://www.sprint.com/legal/fcc_boosters.html
T-Mobile/MetroPCS: https://support.t-mobile.com/docs/DOC-9827
Verizon Wireless: http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html
AT&T: https://securec45.securewebsession.com/attsignalbooster.com/
U.S. Cellular: http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp

Antenna Kit Options

The following accessories are certified by the FCC to be used with the Drive Reach.

MOBILE INSIDE ANTENNA KIT OPTIONS				
Kit #	**Coax Type**	**Ln(ft)**	**Antenna Type**	**Ω**
314419	LMR-100	10	4G Slim Low Profile SMB	50

MOBILE OUTSIDE ANTENNA KIT OPTIONS				
Kit #	**Coax Type**	**Ln(ft)**	**Antenna Type**	**Ω**
311217	LMR-100	10	Mini-Mag SMB	50
304415	RG-58	15	4G Trucker	50
304420	RG-195	20	4G Marine	50
311104-5810	RG-58	10	NMO	75
311112-5810	RG-58	10	NMO Antenna	75
311125	RG-58	12.5	12’ Mag Mount	50
311224-19530	RG-195	30	4G RV OTR	50
311224-0630	RG-6	25	4G RV OTR	75
314203-5810	RG-58	10	800/900/1900 NMO	50
314405	RG-58	10	4G NMO	50

Specifications

	Drive Reach				
Model Number	460054				
FCC ID:	PWO460054				
Connectors	SMB-Jack				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 728-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
	Maximum Power				
Power output for single cell phone (Uplink) dBm	700 MHz Band 12/17 28.3	700 MHz Band 13 29.1	800 MHz Band 5 29.50	1700 MHz Band 4 28.50	1900 MHz Band 2/25 28.30
Power output for single cell phone (Downlink) dBm	700 MHz Band 12/17 5.2	700 MHz Band 13 5.2	800 MHz Band 5 5.2	2100 MHz Band 4 5	1900 MHz Band 2/25 5.1
Noise Figure	5 dB nominal				
Isolation	> 90 dB				
Power Requirements	5 V 4.5 A				

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.

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 weBoost could void the authority to operate this equipment.

2 YEAR WARRANTY

weBoost 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 weBoost. weBoost shall, at its option, either repair or replace the product.

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

Replacement products may include refurbished weBoost products that have been recertified to conform with product specifications.

RMA numbers may be obtained by contacting Customer Support

DISCLAIMER: The information provided by weBoost is believed to be complete and accurate. However, no responsibility is assumed by weBoost 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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