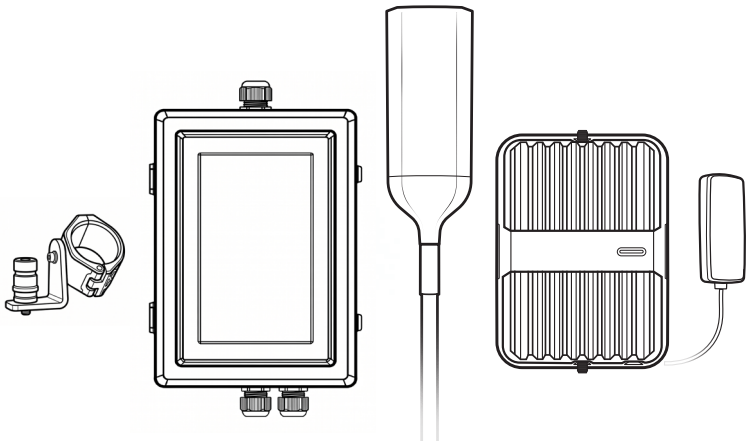


we:boost

Installation Guide



weBoost SXS

Cellular Signal Booster

Use our **weBoost App** to guide you through the installation. See inside page for more details.

Download the weBoost App

Use our app to guide you through setting up a weBoost cell phone signal booster in your home, business, or vehicle. Boost every network, including 5G, right away.



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Package Contents



Drive Reach Signal
Booster, Bracket



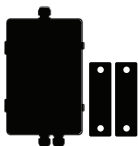
Outside Antenna, 10ft.
& 2 ft. Cables, Adapter,
& Heat Shrink Tubes



13 in. Mast Ext.,
Side-Exit Adapter, Spring
& Thread Lock Pack
& Quick Release



Inside
Antenna



Weatherproof Booster
Enclosure, (2) Pole Mount
Brackets, Protective Rubber
Strips & Mounting Hardware



Roll Cage Clamp

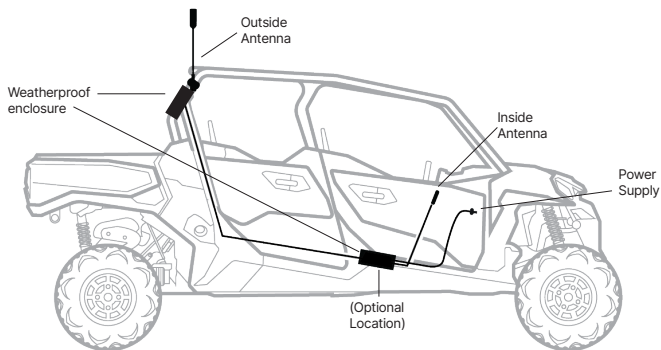


(8) Zip Ties & (4)
Velcro® Strips



Power
Supply

Installation Overview



Booster

Works with all side-by-sides (SXS) and UTVs.



2-Seater Polaris
RZR or Can-Am
Maverick (sport)



2-Seater Polaris
Ranger or Can-Am
Defender (Work/utility)



4-Seater Fully
Enclosed Polaris
Xpedition

Compatible Aftermarket Accessories

952315 - 18 ft. (5.5 m) Cable for Outside Antenna

- This cable can be used to add 8 feet (2.4 meters) to outside antenna. Used for larger vehicles, not recommended unless longer cable is the only option to complete install.

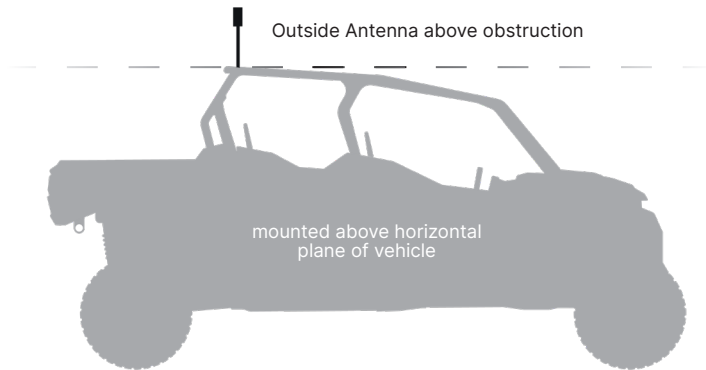
850053 - Rocker Switch Hardwire Kit

- Use this kit to hardwire the booster directly to your SXS/UTV's battery with a weBoost-branded rocker switch, power relay, and wiring harness for a clean, permanent power installation.

991129 - 18 in. (45.7 cm) Mast for Outside Antenna

- This mast can be used to extend the height of the outside antenna to clear obstructions on top of the vehicle.

Best Outside Antenna Position



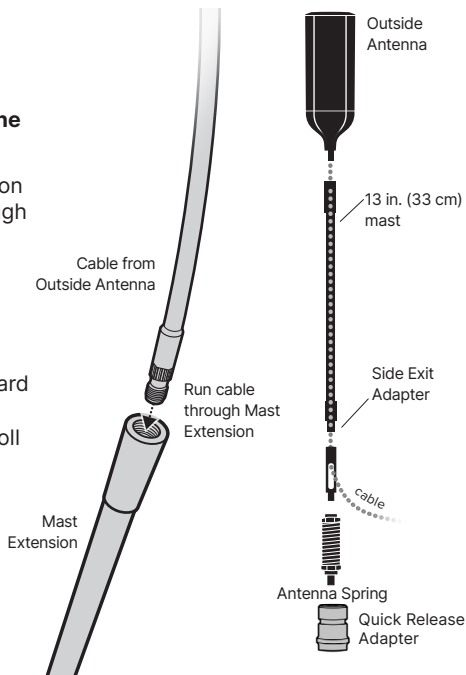
For best performance, the outside antenna should be mounted above the horizontal plane of the roll cage and roof.

STEP 1 Assemble the Outside Antenna

The antenna should be mounted above the roll cage and roof for best performance.

Once you have determined the best location for the antenna, feed the coax cable through the 13" mast extension, then through the side-exit adapter. The mast extension is recommended for optimal performance but is not required.

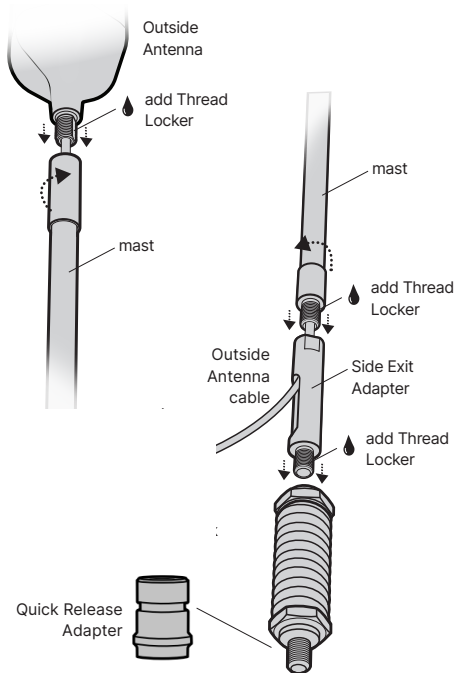
NOTE that the Quick Release Adapter consists of two halves. Pull the collar upward to separate them. Set aside the half with the threaded stud, it will secure into the Roll Cage Clamp in STEP 2. The half with the female threaded socket will be used in this assembly.



(STEP 1 cont.)

Apply thread locker sparingly to every threaded connection throughout the entire installation. Avoid contact with the plastic antenna body.

Screw the mast onto the antenna, the side-exit adapter onto the mast, the spring onto the side-exit adapter, and the female threaded Quick Release half onto the spring.

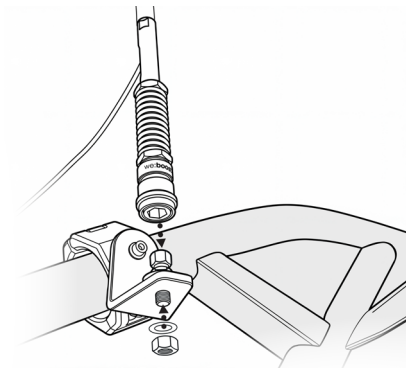


STEP 2 Mount the Outside Antenna with Roll Cage Clamp

If your vehicle already has an existing whip light mount hole or 3/8-24 threaded spring mount and you would like to use it to mount your outside antenna assembly, see (STEP 2 cont.) for alternative mounting options.

To mount using the included Roll Cage Clamp, remove the two screws to open the clamp. Select the rubber insert that best fits your roll cage bar diameter from the three sizes provided and install it into the clamp. Position the clamp on the roll cage bar and tighten the two screws securely.

To adjust the angle of the L-bracket, loosen the single screw on the bracket. The geared teeth on each end of the joint allow the bracket to be set at your desired orientation. Adjust to ensure the antenna will sit in the upright position and retighten the screw to lock it in place.



Feed the threaded stud of the Quick Release down through the clearance hole in the L-bracket. Place the belleville washer with the cone pointing toward the nut, then thread on the nut and tighten to secure. Pull the collar of the Quick Release upward and connect the antenna assembly to complete the installation.

(STEP 2 cont.)

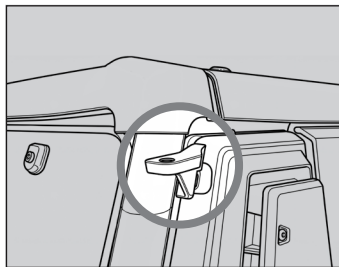
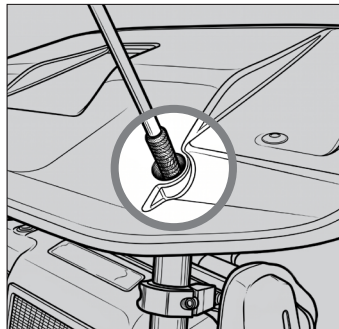
Many SXS / UTV vehicles already have compatible mounting points that work directly with the weBoost SXS outside antenna. If using an existing mount, the included Roll Cage Clamp and associated hardware may not be needed.

Existing 3/8-24 Threaded Spring Mount

If your vehicle has an existing 3/8-24 threaded spring already installed, thread the Quick Release stud directly onto the spring. Pull the collar of the Quick Release upward and connect the antenna assembly to complete the installation.

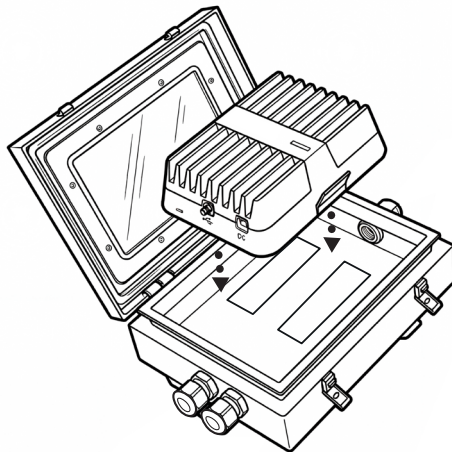
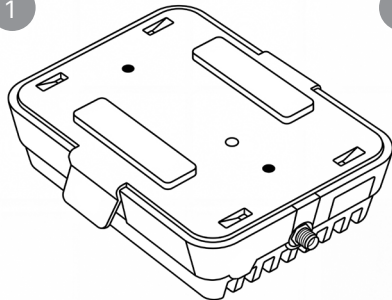
Open Whip Light Mount Hole

If your vehicle has an open whip light mount hole, feed the threaded stud of the Quick Release down through the hole. Place the belleville washer with the cone pointing toward the nut and thread on the nut to secure. Pull the collar of the Quick Release upward and connect the antenna assembly to complete the installation.



STEP 3 Mount the Booster Enclosure

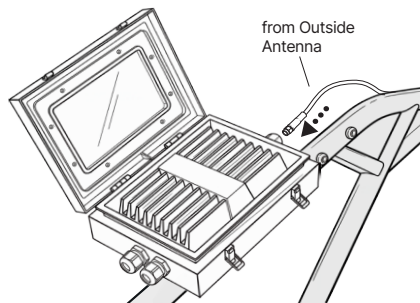
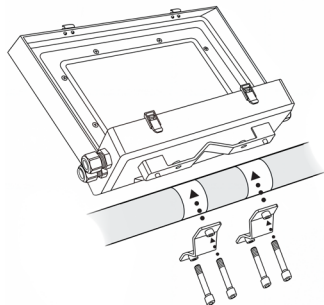
Using the included long, narrow Velcro® strips, peel one side and attach to the booster, then peel the other side and press into the enclosure, orienting the booster as shown. Next, choose a mounting location. See the next page for mounting locations.



(STEP 3 cont.)

Option A — Roll Cage Mounting (Vertical or Horizontal)

Wrap the included Protective Rubber Strips around the roll cage bar, then secure the enclosure using the included Pole Mount Brackets and hardware. The enclosure can be mounted vertically or horizontally.



If the enclosure is mounted close to the antenna: Feed the antenna cable through the cable gland and connect directly to the port labeled "Outside Antenna" on the booster using the included SMA-SMA Adapter.

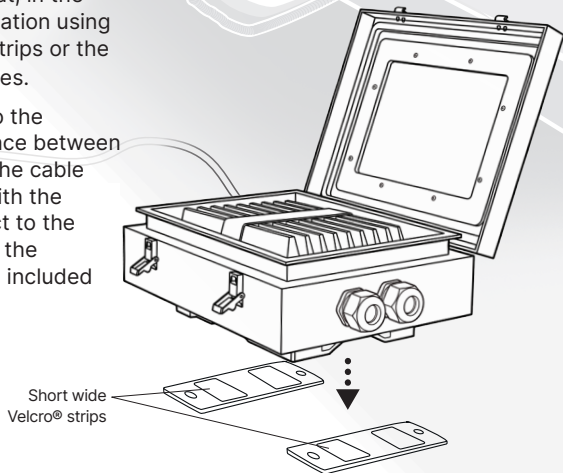
If the enclosure is mounted farther from the antenna: Connect the 2' or 10' coax cable to the antenna cable, feed through the cable gland, then connect to the port labeled "Outside Antenna" on the booster. Secure the cable with the included zip ties. Heat shrink can be applied to the cable connectors near the antenna assembly for added protection.

(STEP 3 cont.)

Option B — Flat Surface Mounting

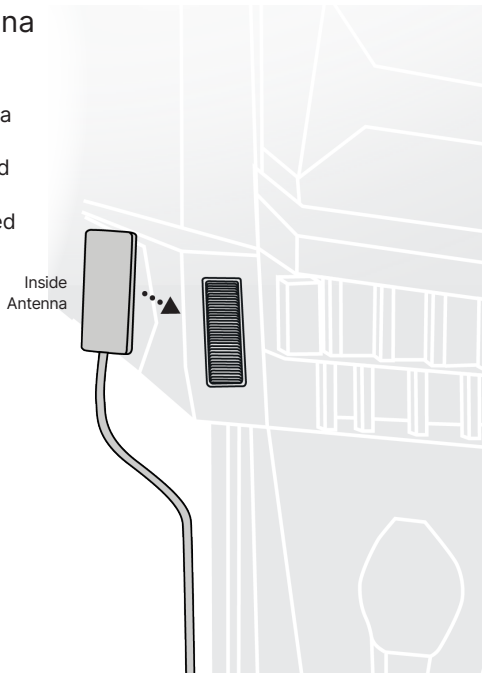
Mount the enclosure under the seat, in the cargo bed, or any other secure location using the included short, wide Velcro® strips or the eight 1/4-20 threaded mounting holes.

Connect the 2' or 10' coax cable to the antenna cable based on the distance between the antenna and enclosure. Feed the cable through the cable gland aligned with the outside antenna port, then connect to the port labeled "Outside Antenna" on the booster. Secure the cable with the included zip ties.



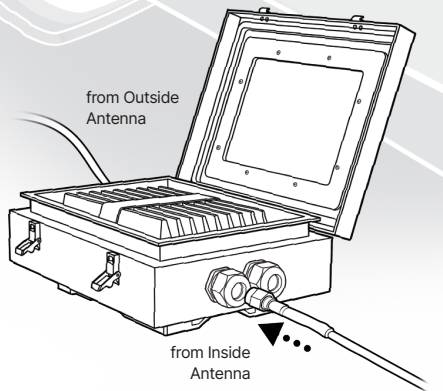
STEP 4 Mount the Inside Antenna

Identify a place to mount the inside antenna on the dash or the side of the seat. Mount it as close to where your phone will be used as possible for best performance or no more than 36 inches away. Use the included Velcro® adhesive strip to attach to the desired location.



(STEP 4 cont.)

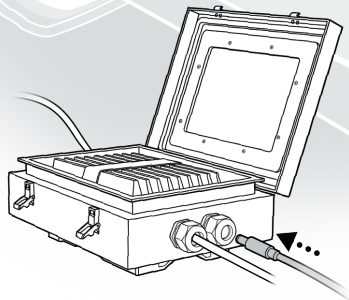
Feed the inside antenna cable through the cable gland aligned with the inside antenna port, then connect it to the port labeled "Inside Antenna" on the booster. Secure any excess cable with the included zip ties.



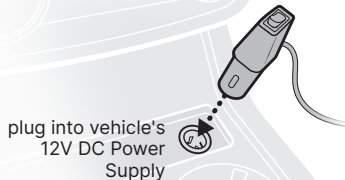
STEP 5 Connect Power Supply to Booster

Feed the power supply cable through the cable gland on the enclosure, then connect the 12V power supply cord to the port labeled "12V DC" on the booster. Plug the power adapter into your vehicle's 12V DC power supply and push the switch to the ON position. If working correctly, the light on the booster will be green. Use only the power supply provided in this package.

NOTE: If the 12V power port on your vehicle is always on (even when the 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 power cord switch to the OFF position. This will prevent the booster from draining the battery in your vehicle.



connect Power
Supply Cord



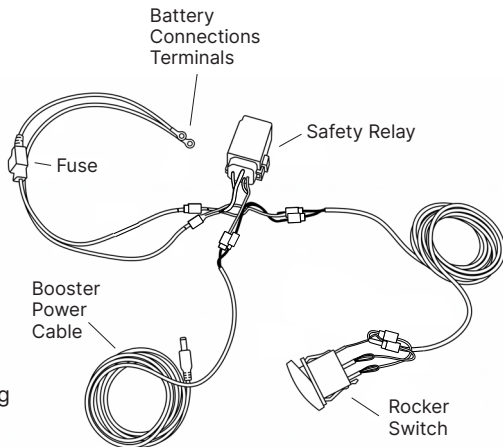
plug into vehicle's
12V DC Power
Supply

Rocker Switch Hardwire Kit (Optional Accessory)

This optional accessory is sold separately and is not included with your weBoost SXS kit.

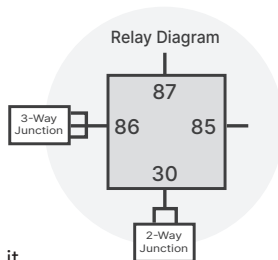
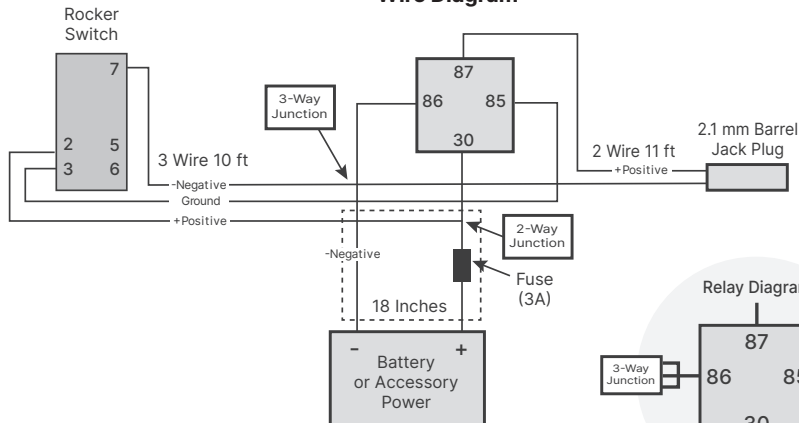
The Rocker Switch Hardwire Kit (Part No. 850053) replaces the included 12V power supply, wiring your booster directly into your vehicle's electrical system for a permanent installation. It puts an easy-to-reach rocker switch on your dash and frees up your cigarette lighter outlet for other accessories.

IMPORTANT: Vehicle electrical systems vary by make, model, and year. Before installing this kit, refer to your vehicle's owner's manual for guidance on connecting accessories to your vehicle's electrical system.



(Rocker Switch Hardwire Kit (Optional Accessory) cont.)

Wire Diagram



Use this diagram to confirm your connections. Refer back to it any time while completing the steps on the following pages.

(Rocker Switch Hardwire Kit (Optional Accessory) cont.)

Installation Instructions

STEP 1 Prepare the Vehicle

Park the vehicle on a flat, level surface and shift the transmission into PARK. Turn the ignition switch OFF and remove the key. Disconnect the vehicle's main negative (–) battery cable.

WARNING: Do not reconnect the main battery cable until the harness, switch, and booster connections are complete. Failure to disconnect the battery may result in electrical shock, short circuit, or damage to your vehicle.

STEP 2 Determine the Rocker Switch Location

Select a convenient, accessible location for the rocker switch. Depending on your vehicle, you may need to remove a dash panel to access the area behind it. Before cutting, verify there are no wires, fuel lines, or other components directly behind the mounting location. Many SXS/UTV dash panels include pre-molded switch knockouts. Hold the switch against one to compare and confirm the opening measures 0.85 in x 1.53 in (21.59 mm x 38.86 mm) before removing it. A larger opening will not hold the switch securely.

NOTE: If your dash doesn't have a pre-molded knockout, cut a mounting hole 0.85 in x 1.53 in (21.59 mm x 38.86 mm), using whatever cutting tool suits your dash material (rotary tool, drill, or razor blade). Wear eye protection, and test-fit the switch before securing it in place.

(Rocker Switch Hardwire Kit (Optional Accessory) cont.)

Installation Instructions

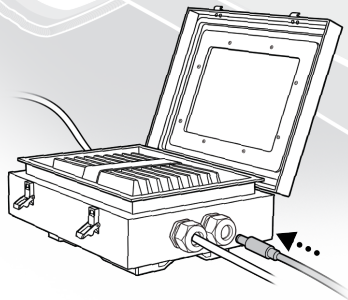
STEP 3 Install the Switch and Route the Harness

Snap the rocker switch into the mounting hole. Route the harness from the switch location toward the booster and your vehicle's accessory power connection point, following existing factory wiring where possible. Secure the harness with the included zip ties, leaving a small service loop of slack at each connection point.

IMPORTANT: Keep all wiring away from exhaust components and other sources of heat, sharp edges, moving or rotating parts, and any area where the harness could be pinched.

STEP 4 Connect the Booster Power Cable

Feed the Booster Power Cable through the cable gland on the enclosure, then connect the 2.1 mm barrel plug to the port labeled "12V DC" on the booster.



connect Power
Supply Cord

(Rocker Switch Hardwire Kit (Optional Accessory) cont.)

Installation Instructions

STEP 5 Connect to Power

Refer to your vehicle's owner's manual to identify the correct power connection points for accessories. Many SXS/UTV models have dedicated accessory power posts separate from the main battery terminals. We recommend connecting to a switched ignition or accessory power source so the booster automatically loses power when the vehicle is off.

Connect the red ring terminal to the positive (+) terminal and the black ring terminal to the negative (-) terminal at that connection point. Tighten each bolt securely.

Once both ring terminals are secure, reconnect the vehicle's main negative (-) battery cable.

NOTE: The red lead includes a 3A inline fuse. Verify it is fully seated before testing. If connecting to an existing switched circuit, confirm it can handle the booster's additional 3A draw.

STEP 6 Test the Installation

Turn the vehicle ignition ON, then turn the rocker switch ON. Confirm the light on the booster is solid green and the light on the rocker switch illuminates. Turn the rocker switch OFF and confirm the booster powers down.

If the booster does not power on, turn the rocker switch OFF and disconnect power. Check the 3A inline fuse, then review each step and the wiring diagram to confirm every connection is correct and fully seated.

(Rocker Switch Hardwire Kit (Optional Accessory) cont.)

Installation Instructions

STEP 7 Secure and Finish

Tighten the cable gland firmly by hand until the rubber seals around the Booster Power Cable, then close and latch the enclosure lid.

Secure all remaining wiring with zip ties. Confirm nothing can rub, pinch, or contact hot or moving components, then reinstall any dash panels you removed.

TIP: If you connected to the battery directly rather than a switched power source, use the rocker switch to turn the booster OFF when the vehicle will be parked for more than a day. This prevents the booster from draining your battery.

Booster Light Patterns

SOLID GREEN

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

SOLID RED

Band has shutoff. This is due to a feedback loop condition called oscillation. 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.

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.

LIGHT OFF

If the signal booster's light is off, verify your power supply has power.

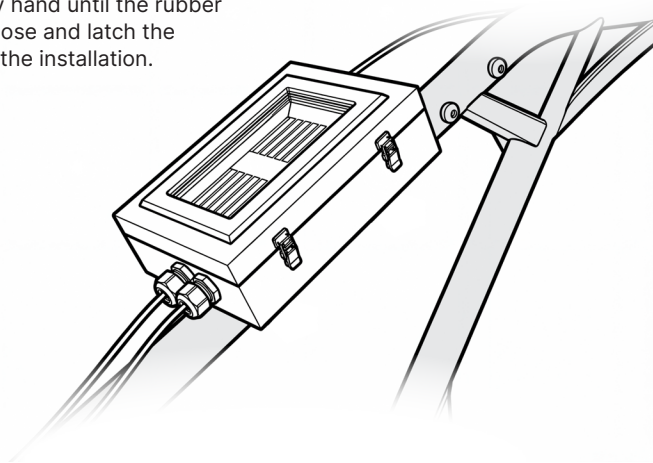
(Booster Light Patterns cont.)

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.

STEP 6 Seal the Weatherproof Booster Enclosure

Once the system is confirmed working, tighten each cable gland firmly by hand until the rubber seals around the cable. Close and latch the enclosure lid to complete the installation.



How Do I Know If My Booster Is Working?

A solid green light on your booster confirms it is on and amplifying. The next page will show you how to measure exactly how much it's helping, but first, here's what to expect.

Your booster is like a hearing aid for your phone.

It picks up faint signals your phone struggles to detect and makes them loud and clear. Resulting in faster data speeds, clearer calls, and fewer dropped connections. In the most extreme cases it can even mean the difference between SOS-only and a working phone call.

Just like a hearing aid needs some sound to amplify, your booster needs some signal. If there is truly no signal present, there is nothing to boost.

How will this work for me?

If the distance to the cell tower is:	SHORT	MEDIUM	LONG	OUT OF RANGE
	↓	↓	↓	↓
Your boosted cell signal will provide:	Max Performance	Better Talk/Text/Data	Good Talk/Text/Data	None

How Do I Know If My Booster Is Working? Cont.

Measure What Actually Matters

Signal bars vary by phone and are not a reliable measure. Your RSRP (Reference Signal Received Power) is the actual signal number your phone reports, measured in dBm. It ranges from about -50 dBm (strong) to -120 dBm (very weak), the closer to -50, the better.

Record your signal strength (RSRP) with the free weBoost App

1. Turn the booster off, open the app, tap Signal, and record your RSRP in dBm
2. Turn the booster on, wait 30 seconds, and record your RSRP again
3. Compare the two numbers, any improvement confirms your booster is working

Android reads automatically. iPhone requires Field Test Mode. The app walks you through this.

Signal strength is measured on a logarithmic scale, so small changes make a big difference. A 10 dB improvement means 10X stronger signal. A 20 dB improvement, common at the edge of coverage, means 100X stronger signal!



Troubleshooting

FIXING BLINKING OR RED LIGHT ISSUES

This section is only applicable if the light on 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 and ensure switch is in ON position.
- 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.

If you are having any difficulties while testing or installing your booster, contact our weBoost Customer Support team for assistance (1-866-294-1660).

(Troubleshooting cont.)

FREQUENTLY ASKED QUESTIONS

How can I contact customer support?

Customer Support can be reached Monday through Friday by calling 1-866-294-1660, or through our support site at support.weboost.com.

Why do I need to create distance between the outside antenna and inside 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 its 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.

 1-866-294-1660

 www.weboost.com

 support@weboost.com

Safety Guidelines

Use only the power supply provided in this package. Use of a non-weBoost 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 (20 cm) from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 31 feet 9 inches (10 meters) 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.

In Canada, **BEFORE USE** you must meet all requirements set out in ISED CPC-2-1-05.

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 (i.e., **MUST NOT** be installed within 20 cm of) any person.

You **MUST** cease operating this device immediately if requested by the FCC (or ISED in Canada) or licensed wireless service provider.

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

(Safety Guidelines cont.)

FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL BOOSTER WITH YOUR WIRELESS PROVIDER IN THE U.S., PLEASE GO TO THE LINK BELOW:

<https://www.weboost.com/carrier-registration>

Antenna Info

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

This radio transmitter 4726A-460061 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

	BAND 12/17	BAND 13	BAND 5	BAND 4	BAND 25/2
Outside antenna maximum permissible antenna gain (dBi) 50Ω	1.2	1.2	1.1	0.8	0.4
Inside antenna maximum permissible antenna gain (dBi) 50Ω	2.1	2.6	3.20	2.1	2.7

MOBILE INSIDE ANTENNA KIT OPTIONS

Kit #	Coax Type	Ln(ft/m)	Antenna Type	Ω
314401	LMR-100	10 / 3	Slim Low Profile SMA	50
311160	RG-58	13 / 4	Desktop	50

MOBILE OUTSIDE ANTENNA KIT OPTIONS

Kit #	Coax Type	Ln(ft/m)	Antenna Type	Ω
311216	LMR-100	10 / 3	Mini-Mag SMA	50
311229	RG-58	15 / 4.5	Trucker	50
311230	RG-6	25 / 7.6	RV OTR	75
314405	RG-58	14 / 4.2	NMO	50

Specifications

Drive Reach Cell Signal Booster					
Model	460061				
FCC	PWO460061				
IC	4726A-460061				
Connectors	SMA-Female				
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				
Power output for single cell phone (Uplink) dBm	700 MHz B12/17 25.4	700 MHz B13 25.6	800 MHz B5 25.6	1700 MHz B4 26.7	1900 MHz B2 26.9
Power output for single cell phone (Downlink) dBm	4.8	4.8	4.8	4.6	4.5
Noise Figure	5 dB (nominal)				
Isolation	> 90 dB				
Power Requirements	12V 1.8A				

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.

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. This device complies with Part 15 of FCC rules. This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by weBoost could void the authority to operate this equipment.

✔ 2 YEAR WARRANTY

weBoost Signal Boosters are warrantied 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.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

✉ support@weboost.com



1444 E Venture Dr, St. George, UT

 1-866-294-1660  www.weboost.com  support@weboost.com

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For patents go to: weboost.com/us/patents

NOT AFFILIATED WITH WILSON ANTENNA

GDE000710_SXS_003_08.122.26