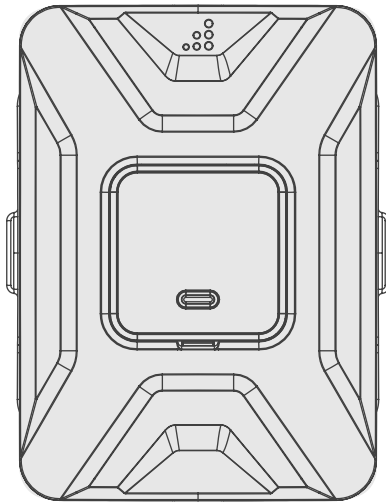




A WILSON ELECTRONICS, LLC COMPANY

# DRIVE 4G-X OTR

Mobile Cellular Signal Booster Kit  
Truck Edition



## User Manual

**NEED HELP?**



[support.weboost.com](https://support.weboost.com)



866.294.1660

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# Package Content

Installation Instructions for the Following weBoost Signal Booster:

**DRIVE 4G-X™ OTR 700 MHz Band 12/17 & 13  
800 / 1900 (Excluding B25) AWS (1700 / 2100)**



Drive 4G-X  
Signal  
Booster



4G-OTR  
Antenna &  
Mount



Slim Low  
Profile  
Antenna



Mounting  
Bracket



DC Power  
Supply



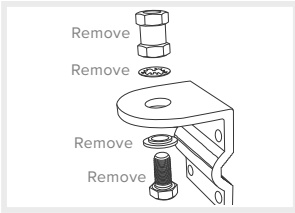
THE ALUMINUM CASING OF YOUR SIGNAL BOOSTER WILL ADJUST TO THE TEMPERATURE OF ITS ENVIRONMENT, BUT IS DESIGNED TO PROTECT THE SIGNAL BOOSTER TECHNOLOGY. FOR EXAMPLE, IN THE SUMMER, THE SIGNAL BOOSTER CASE MAY BE AS HOT AS 150 DEGREES INSIDE YOUR VEHICLE. THESE HIGH TEMPERATURES WILL NOT DAMAGE THE SIGNAL BOOSTER, NOR DO THEY POSE A FIRE RISK TO THE VEHICLE. AGAIN, BE SURE TO PLACE YOUR SIGNAL BOOSTER IN A LOCATION WITH ADEQUATE VENTILATION AND AWAY FROM DIRECT SUNLIGHT OR MOISTURE.



THE DRIVE 4G-X SIGNAL BOOSTER MAY REMAIN ON, IN VEHICLES WHOSE 12V DC POWER SOURCES DO NOT AUTOMATICALLY SHUTDOWN WHEN THE VEHICLE IS TURNED OFF. THIS COULD RESULT IN DISCHARGING THE VEHICLES BATTERY IN ONE TO TWO DAYS.

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# Quick Installation



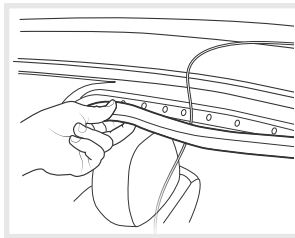
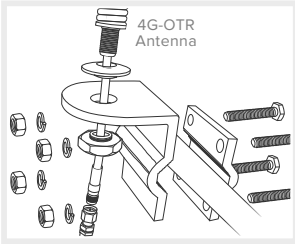
1

## 4G-OTR ANTENNA INSTALLATION

Select a location on one of the mirror rails to mount the 4G-OTR Antenna that is:

- At least 12 inches from any other antennas.
- Free of obstructions.
- At least 6 inches from any windows (including sunroofs).

Remove existing nut from mount as shown. Mount antenna with fitted disc washer and nut provided in package. Add included thread lock on all threads.



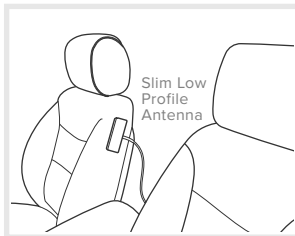
2

## RUNNING ANTENNA CABLE

Run the Outside Antenna cable into the vehicle.

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

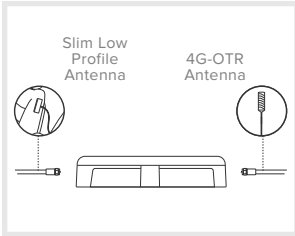
For a cleaner look, carefully pull down the door seal, run the cable under the seal, and push the seal back into place. This method reduces wear on the cable as the door opens and closes.



3

## INSIDE ANTENNA INSTALLATION

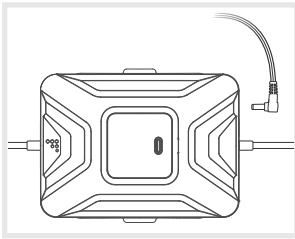
Identify a place on the side of the seat to mount the Slim Low Profile Antenna. The location should be at least 18 inches but no more than 36 inches from where the cellular device will be used. Peel off the backing of the Velcro® and attach to seat.



## 4

### CONNECT COAX CABLES TO DRIVE 4G-X

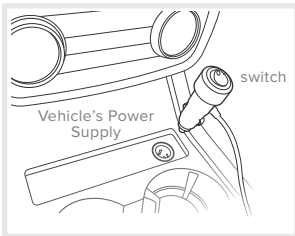
Select a location for the Drive 4G-X that is free from excessive heat, direct sunlight and moisture and that has proper ventilation. Good locations include underneath a seat or under the dashboard. Connect the cable from the 4G-OTR Antenna to the port labeled “Outside Antenna” on the Drive 4G-X and connect the cable from the Slim Low Profile Antenna to the port labeled “Inside Antenna” on the booster.



## 5

### CONNECT TO POWER SUPPLY

Connect the power supply cord to the end of the Drive 4G-X labeled “Power.” NOTE: Do NOT connect the power to the Signal Booster until you have connected both the Inside and Outside Antennas.



## 6

### CONNECT TO POWER SUPPLY

Plug the power adapter into vehicle’s 12V DC power supply. Power up your Drive 4G-X by flipping the switch on the back of the DC power adapter on. If your Drive 4G-X is working correctly, the light will be green.

NOTE: If light is not green on your weBoost booster, please refer to the troubleshooting section on page 8 or contact customer support at **1-866-294-1660** or email at [support@weboost.com](mailto:support@weboost.com).

# Specifications

## Drive 4G-X OTR

|                                                            |                                                                                                |                    |                 |                      |                 |                 |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|-----------------|----------------------|-----------------|-----------------|
| Product Number                                             | U470010                                                                                        |                    |                 |                      |                 |                 |
| Model Number                                               | 460010                                                                                         |                    |                 |                      |                 |                 |
| FCC ID:                                                    | PWO460021                                                                                      |                    |                 |                      |                 |                 |
| IC:                                                        | 4726A-460021                                                                                   |                    |                 |                      |                 |                 |
| Connectors                                                 | SMA-Female                                                                                     |                    |                 |                      |                 |                 |
| Antenna Impedance                                          | 50 Ohms                                                                                        |                    |                 |                      |                 |                 |
| Frequency                                                  | 699-716 MHz, 729-756 MHz, 777-786 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755 MHz/2110-2155 MHz |                    |                 |                      |                 |                 |
| Passband Gain (nominal)                                    | 700 MHz Band 12/17                                                                             | 700 MHz Band 13    | 800 MHz Band 5  | 1700/2100 MHz Band 4 | 1900 MHz Band 2 |                 |
|                                                            | 45.8                                                                                           | 46.8               | 46.8            | 45.2                 | 44.6            |                 |
| 20 dB Bandwidth (MHz)                                      | 700 MHz Band 12/17                                                                             | 700 MHz Band 13    | 800 MHz Band 5  | 1700/2100 MHz Band 4 | 1900 MHz Band 2 |                 |
|                                                            | Typical                                                                                        | 30.6               | 31.0            | 37.9                 | 79.2            |                 |
|                                                            | Maximum                                                                                        | 35.2               | 35.2            | 39.9                 | 79.8            |                 |
| Power output for single cell phone (Uplink) dBm            | Maximum Power                                                                                  |                    |                 |                      |                 |                 |
|                                                            | 700 MHz Band 12/17                                                                             | 700 MHz Band 13    | 800 MHz Band 5  | 1700 MHz Band 4      | 1900 MHz Band 2 |                 |
|                                                            | 24.84                                                                                          | 24.35              | 23.4            | 21.3                 | 24.43           |                 |
| Power output for single cell phone (Downlink) dBm          | Maximum Power                                                                                  |                    |                 |                      |                 |                 |
|                                                            | 700 MHz Band 12/17                                                                             | 700 MHz Band 13    | 800 MHz Band 5  | 2100 MHz Band 4      | 1900 MHz Band 2 |                 |
|                                                            | 2.87                                                                                           | 2.79               | 2.8             | 2.0                  | 1.92            |                 |
| Power output for multiple received channels (Uplink) dBm   | Maximum Power                                                                                  |                    |                 |                      |                 |                 |
|                                                            | No. Tones                                                                                      | 700 MHz Band 12/17 | 700 MHz Band 13 | 800 MHz Band 5       | 1700 MHz Band 4 | 1900 MHz Band 2 |
|                                                            | 2                                                                                              | 25.4               | 23.9            | 22.9                 | 22.8            | 24.9            |
|                                                            | 3                                                                                              | 21.8               | 20.4            | 19.4                 | 19.3            | 21.3            |
|                                                            | 4                                                                                              | 19.3               | 17.9            | 16.9                 | 16.8            | 18.8            |
|                                                            | 5                                                                                              | 17.4               | 16.0            | 15.0                 | 14.8            | 16.9            |
|                                                            | 6                                                                                              | 15.8               | 14.4            | 13.4                 | 13.2            | 15.3            |
| Power output for multiple received channels (Downlink) dBm | Maximum Power                                                                                  |                    |                 |                      |                 |                 |
|                                                            | No. Tones                                                                                      | 700 MHz Band 12/17 | 700 MHz Band 13 | 800 MHz Band 5       | 2100 MHz Band 4 | 1900 MHz Band 2 |
|                                                            | 2                                                                                              | 4.8                | 5.6             | 5.4                  | 6.3             | 4.5             |
|                                                            | 3                                                                                              | 1.3                | 2.1             | 1.9                  | 2.8             | 0.9             |
|                                                            | 4                                                                                              | -1.2               | -0.4            | -0.6                 | 0.3             | -1.6            |
|                                                            | 5                                                                                              | -3.2               | -2.4            | -2.6                 | -1.6            | -3.5            |
|                                                            | 6                                                                                              | -4.7               | -4.0            | -4.2                 | -3.2            | -5.1            |
| Noise Figure                                               | 5 dB nominal                                                                                   |                    |                 |                      |                 |                 |
| Isolation                                                  | > 90 dB                                                                                        |                    |                 |                      |                 |                 |
| Power Requirements                                         | 6 V 2 A                                                                                        |                    |                 |                      |                 |                 |

**IC Note #1:** The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

(SPECIFICATIONS cont.)

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 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.

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# Frequently Asked Questions

## **What hours can I contact customer support?**

Customer Support can be reached 7 days a week by calling **866.294.1660**, or through our support site at [support.webboost.com](http://support.webboost.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 shut down to prevent damage. The best way to keep these spheres of signal from overlapping is to maximize separation between the Booster and Antenna.

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# Safety Guidelines

## Warnings

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

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.

The inside panel and dome antennas must have 6' of separation distance from all active users, and the low profile antennas must have 18" of separation distance from all active users.

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

The Outside Antenna must be installed no higher than 10 meters (32'9") above ground.

Any antenna used with this device must be located at least 8 inches from all persons

**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 weBoost could void the authority to operate this equipment.



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# 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 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 below.

**SOLID RED** — 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 below.

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# 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: Parallel separation of the two antennas typically requires a shorter separation distance than perpendicular separation. A combination of vertical and horizontal separation distance also works to prevent oscillation.
5. If you are having any difficulties while testing or installing your booster, contact our weBoost Customer Support team for assistance (866.294.1660).

# Light Off

If the Drive 4G-X 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.**

ALWAYS disconnect and reconnect power from the power supply adapter, NEVER from the Booster.

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# Mobile Antenna Kit Options

## INSIDE ANTENNA OPTIONS

### Slim Low Profile

301152 - w/ 10' RG174

### Low Profile

311106 - w/ 10' RG58

## OUTSIDE ANTENNA OPTIONS

### Mini-Mag

301126 w/ 12.5 RG174 cable- SMA

### 12" Mag Mount

311128 w/ 12.5' RG174  
314202 w/ 12.5' RG174  
311703 w/ 12.5' RG174

### 4G Trucker Antenna

304415 w/15' RG58  
304414 w/15' RG58

### Trucker Antenna

311701 w/10.5' RG58  
311101 w/10.5' RG58

### Trucker Antenna

311119 w/13.5' RG58  
311133 w/13.5' RG58

### Marine Antenna

311130-5810 w/10.5' RG58

### 4G Marine Antenna

304416 w/20' RG58  
304420 w/20' RG58

### Glass Mount

311102 w/14' RG58

### NMO Antenna

Kit 314203-5810  
• 800/900/1900 NMO Antenna  
• 10' RG58 Cable

Kit 311112-17410  
• 800/1900 NMO Antenna  
• 14' RG174 Cable

Kit 314203-17410  
• 800/900/1900 NMO Antenna  
• 14' RG174 Cable

Kit 311104-17410  
• 800/900/1900 NMO Antenna  
• 10' RG174 Cable

Kit 311104-5810  
• 800/900/1900 NMO Antenna  
• 10' RG58 Cable

Kit 311112-5810  
• 800/1900 NMO Antenna  
• 10' RG58 Cable

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# Warranty

## 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.

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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**NEED HELP?**



support.weboost.com



866.294.1660

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

**Sprint:** [http://www.sprint.com/legal/fcc\\_boosters.html](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>



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[www.weboost.com](http://www.weboost.com) | [support.weboost.com](mailto:support.weboost.com)

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