DRIVE 4G-X FLEET

PROFESSIONAL VEHICLE CELLULAR SIGNAL BOOSTER KIT

User Manual

NEED HELP? support.weboost.com 866.294.1660
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Package Contents

Drive 4G-X Booster & Bracket
Outside NMO Antenna + Connector Mounting Cable
4G In-Vehicle Antenna
Power Supply
Optional Cable
Protective Tape For Installation
Step 1: Mount Outside Antenna & Route Cable

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 6 inches away from any windows
  (for best performance install on top of vehicle)

Mount the outside antenna by placing on top of vehicle.

NOTE: Drill and 3/4” hole saw drill bit required.

WARNING: With this option, we recommend doing a ‘soft install’ before drilling the hole. Set up the system by routing the cable through an open door or window, completing the setup instructions, verifying the system works as desired, and then drilling the hole.
Once you have determined the best location for the antenna, place the Protective Tape on the vehicle in the desired location.

Using a 3/4” hole saw, drill hole in the center of the protective tape.

After hole has been drilled, insert NMO Mounting Cable through (SMA connector end first) and remove collar.

See diagrams below for NMO Outside Antenna installation.
(STEP 1 cont.)

Position threads of the cable mount above vehicle surface. Apply included silicone grease to the o-ring on the collar then screw the collar to the base mount. Ensure the mount is centered in the hole and tighten with wrench.

Before attaching the antenna, clean the area around the mount. Apply a thin layer of silicone grease to the threads, only, of the NMO mount and to the o-ring on the antenna. DO NOT apply to the antenna pin contact surface. Screw the antenna onto the NMO mount and hand tighten into place. Ensure the antenna is screwed all the way in and make sure the casket is touching the vehicle surface.
(STEP 1 cont.)

**Route NMO Outside Antenna cable inside the vehicle.**

For a professional installation we recommend routing the cable under the headliner and down through the side trim panel to the desired booster location on the floor of the vehicle.
Step 2: Mount Inside Antenna

Identify a place to mount the 4G 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. Adhesive and Velcro® mounting options are included.
Step 3: Wiring The Power Supply To Vehicle Battery

Use steps below as a draft/template of the general install of the power supply.

1. Before connecting the power supply, disconnect the vehicle battery leads to avoid any electrical shocks during installation.

2. Locate a place where cables are already running through the firewall (rear wall of engine bay) to the inside of the cabin.

3. Locate the same firewall hole from step 2 in the inside of the vehicle cabin.

4. Route the power cables of the power supply from the inside of the vehicle cabin out through firewall hole from steps 2 & 3. Note: The cables must be routed inside to outside since the power supply brick won’t fit through the firewall holes. The power supply brick should remain inside the vehicle cabin.

5. Connect the positive lead of the power supply (lead with red tape) to the disconnected positive (+) lead of the battery (not the positive terminal on the battery itself).

6. Connect the negative lead of the power supply (lead without tape) to the disconnected negative (-) lead of the battery (not the negative terminal on the battery itself).

7. Connect the positive (+) lead back to the vehicle battery.

8. Connect the negative (-) lead back to the vehicle battery.

NOTE: Having the power supply directly connected to the battery may drain the battery’s life. Please review the vehicle’s owner’s manual for more information. Adding a “fuse tap” may be another solution. A “fuse tap” is an electrical part that functions as a power splitter and is meant to be installed in the car’s fuse box, making the amp shut off when the vehicle’s ignition switch is turned off.
Step 4: Connect Coax Cables To Booster

Connect the cable from the NMO Outside Antenna to the port labeled “Outside Antenna” on the Drive 4G-X booster.

NOTE: Bracket can be used to fasten booster in a specific location if desired.

Connect the cable from the 4G 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 Drive 4G-X labeled “Power.” Congratulations! Once your booster is running please allow some time for your phone to adjust to your new signal.

NOTE: Do NOT connect the power to the Signal Booster until you have connected both the Inside and Outside Antennas.
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.

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.
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 perpendicular 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

What hours 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 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.
 safety guidelines

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.

All inside panel and dome antennas must have at least 6’ of separation distance from all active users, and low profile antennas must have at least 1.5’ 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.

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.

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.

For more information on requirements set out in ISED CPC-2-1-05, see below:


For more information on registering your signal booster with your wireless provider, please see below:

T-Mobile/MetroPCS: https://support.t-mobile.com/docs/DOC-9827
AT&T: https://securec45.securewebsession.com/attsignalbooster.com/
# Specifications

## Drive 4G-X

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Model Number</th>
<th>FCC ID:</th>
<th>IC:</th>
<th>Connectors</th>
<th>Antenna Impedance</th>
<th>Frequency</th>
<th>Power output for single cell phone (Uplink) dBm</th>
<th>Power output for single cell phone (Downlink) dBm</th>
<th>Noise Figure</th>
<th>Isolation</th>
<th>Power Requirements</th>
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<tbody>
<tr>
<td>U470010</td>
<td>460021</td>
<td>PW0460021</td>
<td>4726A-460021</td>
<td>SMA-Female</td>
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<td>700 MHz Band 12/17 2.84</td>
<td>700 MHz Band 13 2.87</td>
<td>800 MHz Band 5 2.39</td>
<td>800 MHz Band 4 2.39</td>
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<td>1700 MHz Band 4 2.39</td>
</tr>
</tbody>
</table>

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

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.

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866.294.1660
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

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