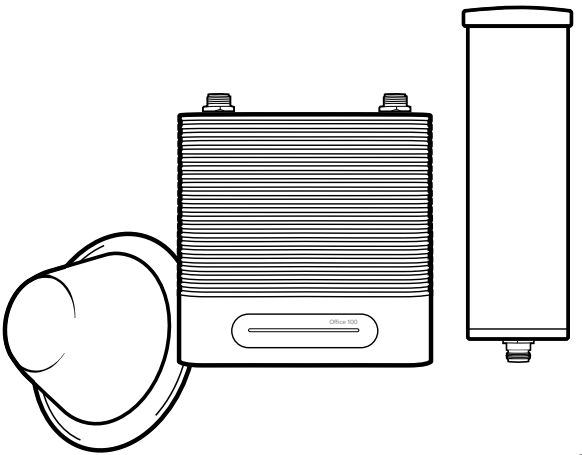
we:boost

Installation Guide



Office 100

Cell 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.

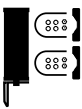
Index

Package Contents

50 Ohm & 75 Ohm Kits are available

Booster &
Power Supply

Inside
Antenna



Outside
Antenna & Mounting
Hardware

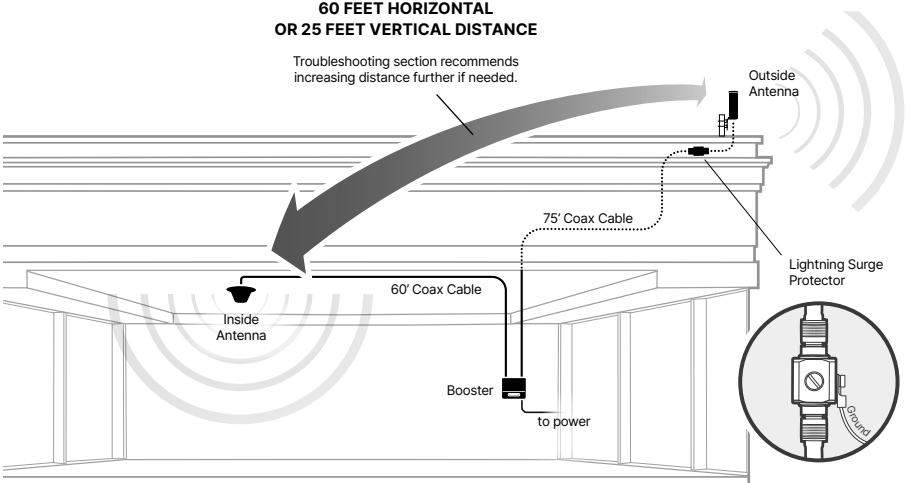
75’ & 60’ Cables
& Cable Clips

Lightning Surge
Protector

2’ Cable

Installation Overview

Before finalizing the installation, do a **soft install and optimize the system for best coverage.**



Preparation

You Will Need

Make sure the following items are ready for your installation. The tools listed below are not included in your booster kit.

1 to 2 hours

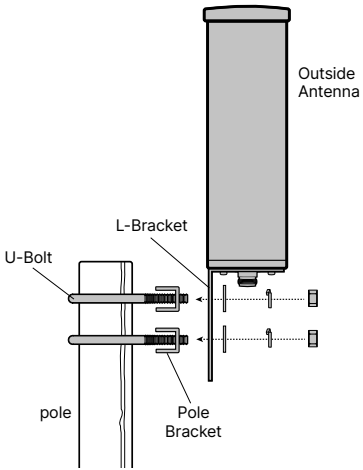
- Ladder
- Drill
- 1” - 2” diameter existing pole for mounting Outside Antenna (#901117 Pole Mount can be purchased separately if needed)
- Recommended: Power Strip with surge protection

STEP 1 Mount Outside Antenna Toward Nearest Cell Tower

Mounting hardware is included. Attach the **L-bracket** to the outside antenna and use the **bracket clamp** to attach the antenna to a existing roof pipe.

NOTE: Mounting on existing roof exhaust pipe would be a good time-saver option. Watch out for power lines.

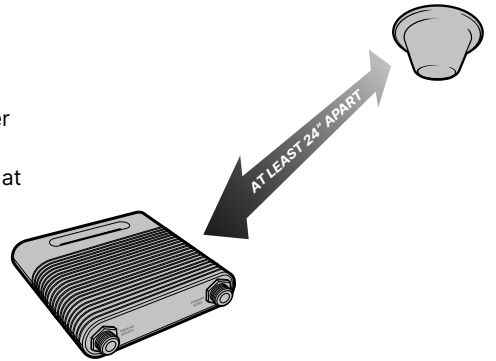
NOTE: The outside antenna must be at least **60 feet horizontal or 25 feet vertical** from the inside antenna for best performance.

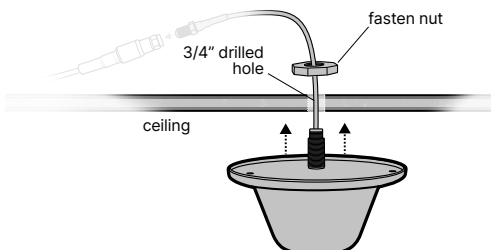


STEP 2 Inside Antenna & Booster Placement

Place the **inside antenna** in the ceiling over where you need the greatest signal boost and place booster in your desired location at least **24 in. away** from inside antenna.

NOTE: Do not connect booster to power until the system is fully installed.

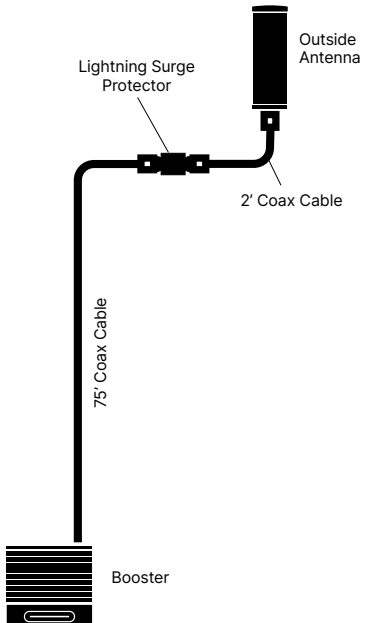




STEP 3 Route & Connect Outside Antenna To Booster

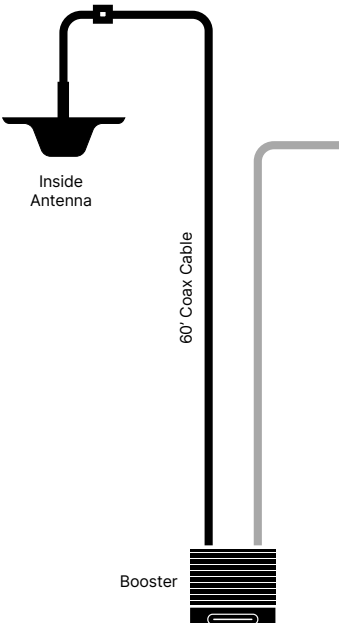
Connect **2 ft. coax cable** to **outside antenna**, attach the **lightning surge protector**, then connect the black **75 ft. coax cable** and route into building.

Route cable to the **Office 100 booster** and connect to the port labeled 'OUTSIDE ANTENNA'.



STEP 4 Route & Connect Inside Antenna To Booster

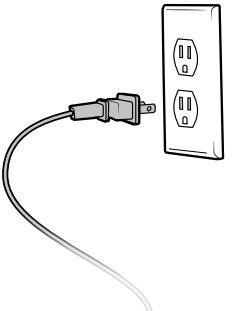
Connect the black **60 ft. coax cable** to inside antenna and route to the **Office 100 booster** and connect to the port labeled 'INSIDE ANTENNA'.

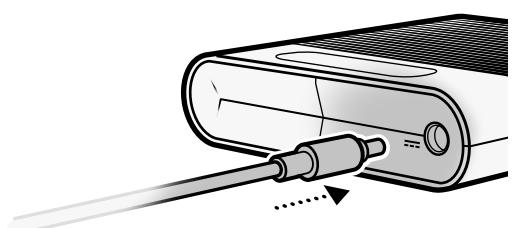


STEP 5 Power Up The Booster & Optimize The System

Plug the **power supply** into wall outlet then connect to end of booster labeled " ⎓ " and enjoy your boosted signal.

NOTE: We strongly recommend using a power strip with surge protection.





Measuring Booster Performance

We've created an easy way to learn your signal strength and compare it before and after a booster. **Download our free weBoost app** to get accurate decibel measurements to help you get the best performance from your system.

(Measuring Booster Performance cont.)

Signal Strength (dBm) with weBoost system powered **OFF:** _____
(dBm here)

Signal Strength (dBm) with weBoost system powered **ON:** _____
(dBm here)

Compare Results

Compare the decibels (dBm) on the chart below to find what signal strength you fall into.

Signal Strength	Excellent	Good	Fair	Poor	Dead Zone
3G/1x	-70dBm	-71 to -85dBm	-86 to -100dBm	-101 to -109dBm	-110dBm
4G/LTE	-90dBm	-91 to -105dBm	-106 to -110dBm	-111 to -119dBm	-120dBm

Did you know a signal increase of just 3dB is 2 times the power and signal amplification!

Gain Improvement	Signal Improvement
3dB	**2X**
6dB	**4X**
10dB	**10X**
20dB	**100X**

Booster Light Patterns

SOLID GREEN

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

BLINKING GREEN & RED

Band has reduced gain. 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.

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 GREEN & YELLOW

Band has reduced gain. This indicates that one or more of the booster bands has reduced

(Booster Light Patterns cont.)

power due to overload from nearby cell tower. 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 YELLOW

Band has shutoff due to overload from nearby cell tower. Outside Antenna must be adjusted. Refer to Troubleshooting section.

LIGHT OFF

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

Troubleshooting

FIXING BLINKING OR RED LIGHT ISSUES

This section is only applicable if the light on the booster is red, blinking red or green /red lights.

1 Verify the inside antenna is at least 24 inches from the booster and pointed away from the booster. Unplug and re-plug in power supply.

2 Tighten all cable connections (be sure to finger tighten only, do NOT use tools). You may want to undo and redo the connection completely. Unplug and re-plug in power supply.

3 Increase the distance (horizontally or vertically) between the outside and inside antenna. Add included cable if needed. Un-plug and re-plug in power supply.

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.)

FIXING BLINKING OR YELLOW LIGHT ISSUES

This section is only applicable if the light on the booster is yellow, blinking green /yellow lights.

Outside Antenna must be adjusted.

Change mount location. Move the outside antenna to a different location of the home/ building to see if the lights turn green. Un-plug and re-plug in power supply. Then secure in place.

Safety Guidelines

To uphold compliance with network protection standards, all active cellular devices must maintain at least six feet of distance from Inside Panel and Dome Antennas and at least four feet of distance from Desktop Antenna.

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 100 degrees Fahrenheit). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

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 feet 9 inches) 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.

This device may be operated ONLY in a fixed location for in-building use.

FOR MORE INFORMATION ON REQUIREMENTS SET OUT IN ISED CPC-2-1-05, SEE BELOW:

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html

Antenna Info

The following accessories are certified by the FCC to be used with the Office 100 Booster.

This radio transmitter 4726A-460060 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	4.4	4.2	3.9	4.4	4.6
Inside antenna maximum permissible antenna gain (dBi) 50Ω	3.2	3.0	3.2	2.4	2.5

FIXED INSIDE ANTENNA KIT OPTIONS				
Kit #	**Coax Type**	**Ln(ft)**	**Antenna Type**	**Ω**
304412 / 304419	Wilson 400 / RG-11	60	Dome	50 / 75

FIXED OUTSIDE ANTENNA KIT OPTIONS				
Kit #	**Coax Type**	**Ln(ft)**	**Antenna Type**	**Ω**
314411 / 314445	Wilson 400 / RG-11	75	Directional	50 / 75
304422 / 304423	Wilson 400 / RG-11	75	Omni	50 / 75
304424 / 304421	Wilson 400 / RG-11	75	Omni	50 / 75
314453 / 314473	Wilson 400 / RG-11	75	Panel	50 / 75

Specifications

Office 100 Booster					
Model	460060				
FCC	PWO460060				
IC	4726A-460060				
Connectors	N-Female or F-Female				
Antenna Impedance	50 Ohms or 75 Ohms				
Frequency	698-716 MHz, 729-756 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** 25.6	**700 MHz B13** 25.2	**800 MHz B5** 25.8	**1700 MHz B4** 25.2	**1900 MHz B25/2** 25.2
Power output for single cell phone (Downlink) dBm	13.6	13.3	12.7	**2100 MHz B4** 12.9	12.5
Noise Figure	5 dB (nominal)				
Isolation	>110 dB				
Power Requirements	5 VDC				

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.

⊘ 3 YEAR WARRANTY

weBoost Signal Boosters are warranted for two (3) 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.

Notes

we:boost

3301 East Deseret Drive, St. George, UT
1-866-294-1660 www.**weboost**.ca

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