



DBSW819


Cellular Wireless Booster Installation Manual

Note: All Cyfre amplifiers are designed to supply enough power to the mobile device(s) in order to make and receive calls. Therefore your mobile device(s) may only read one or two bars depending on location and coverage strength needed for your device to operate properly. This is to ensure that there are no adverse effects caused to the network by the wireless booster and network quality is preserved.

Before installing your new Cyfre™ Booster, please read the entire Installation Manual.

Section # 1 Parts List

Item	Qty	Description
1	1	Cyfre™ Wireless Booster
2	1	Cyfre™ external magnetic mount antenna with 10ft low loss cable
3	1	Cyfre™ direct connect antenna with elbow joint connector
4	1	Cyfre™ 12 volt cigarette power adapter cable
5	1	Cyfre™ 4ft hardwire power cable



Section # 2 Tools and Other Materials Required

Item	Description
1	Electric drill (as required for signal booster mounting holes)
2	Screw driver
3	Qty 4 screws (length and type as required for signal booster mounting)
4	Wire cutters / strippers
5	Qty 2 wire connection insulators or insulating material (as required for DC power cable connection to 12V DC system) for permanent installation/application.



Section # 3 WARNINGS!

- ∇ Antennas must be mounted a **MINIMUM** distance of 40 cm (15.74 inches) away from any person(s).
- ∇ An external antenna must be mounted outside a vehicle, boat, RV or home. If mounting an external antenna on the exterior portion of the outside glass of a vehicle, a minimum of **6 feet of separation** is needed. Failure to do so may result in booster failure, and will void your warranty. Installation of this system in a convertible style vehicle with less than 6 feet of horizontal antenna separation, and 3 feet of vertical separation with a separation material of metal or fibreglass is not approved as of this time. Installation on a small boat, or center console unit requires the external antenna to be mounted on a T-Top, or other mounting surface at least six feet above the operator and at least six feet from the receive antenna.
- ∇ **UNDER NO CIRCUMSTANCES CAN AN EXTERIOR ANTENNA BE INSTALLED INSIDE A VEHICLE**, Boat, RV or Home. This action may result in booster failure, which will void your warranty.
- ∇ The power supply must be plugged into a 12 Volt outlet that is connected to the fuse box of your vehicle, boat or RV and have a minimum of 3-amp fuse, or into a 120 volt AC to 12 volt DC converter.
- ∇ Under no circumstances should you power up your booster without first properly connecting a 50 ohm 800/ 1900 MHz dual band cellular antenna to both the internal and external antenna connectors. Failure to properly connect the antennas may result in booster failure, which will void your warranty.
- ∇ For optimum performance and compatibility with your service provider requirements, it is recommended that the external antenna be installed on the exterior metal roof of your vehicle, or on a metal flat surface of at least two (2) square feet.
- ∇ Use of cellular booster with exterior antennas of higher gain than 6dBi gain is in violation of FCC regulations for which the offender will be fully liable, and void your warranty. Use of cellular boosters with interior antennas of higher gain than 6dBi gain is in violation of FCC regulations for which the offender will be fully liable, and void your warranty.
- ∇ Do not combine the external or interior antenna cable with other coaxial cables. The additional loss because of the cable length and connectors could greatly diminish the performance of the booster.
***It is recommended that only qualified or informed installation technicians install this product permanently to a vehicle. Installation by any other person is at the risk of the owner and operator.
- ∇ Internal antennas must be mounted no closer than 40 cm (15.74 inches) away from any person(s).
- ∇ DO NOT place antennas closer than 3 ft. vertically or horizontally (as shown in Section #6)

Section # 4 Understanding Your New Booster

All Cyfre amplifiers are designed to only supply enough power to the mobile device to make and receive calls. Therefore the mobile device may only read one or two bars depending on location and coverage strength.

Your New DBSW 819 Booster is designed for a maximum coverage area of 8ft radius. This unit is NOT designed for use inside any building.

1. **Never move the antennas closer together with the amplifier powered on.**
2. **Before moving the antennas, the amplifier must be turned off**
3. After the two antennas have been installed and connected to the amplifier, power the amplifier up.
4. The amplifier requires a short set up time period.
5. The LED light will blink and then become steady. The blinking period is when the amplifier is determining the proper settings. This may take from 1 to 10 seconds.
6. If the antennas are moved closer to each other while the amplifier powered on, this will cause the amplifier to shut down.
7. If this occurs you will need to reconnect the power after the antennas are installed in the desired location



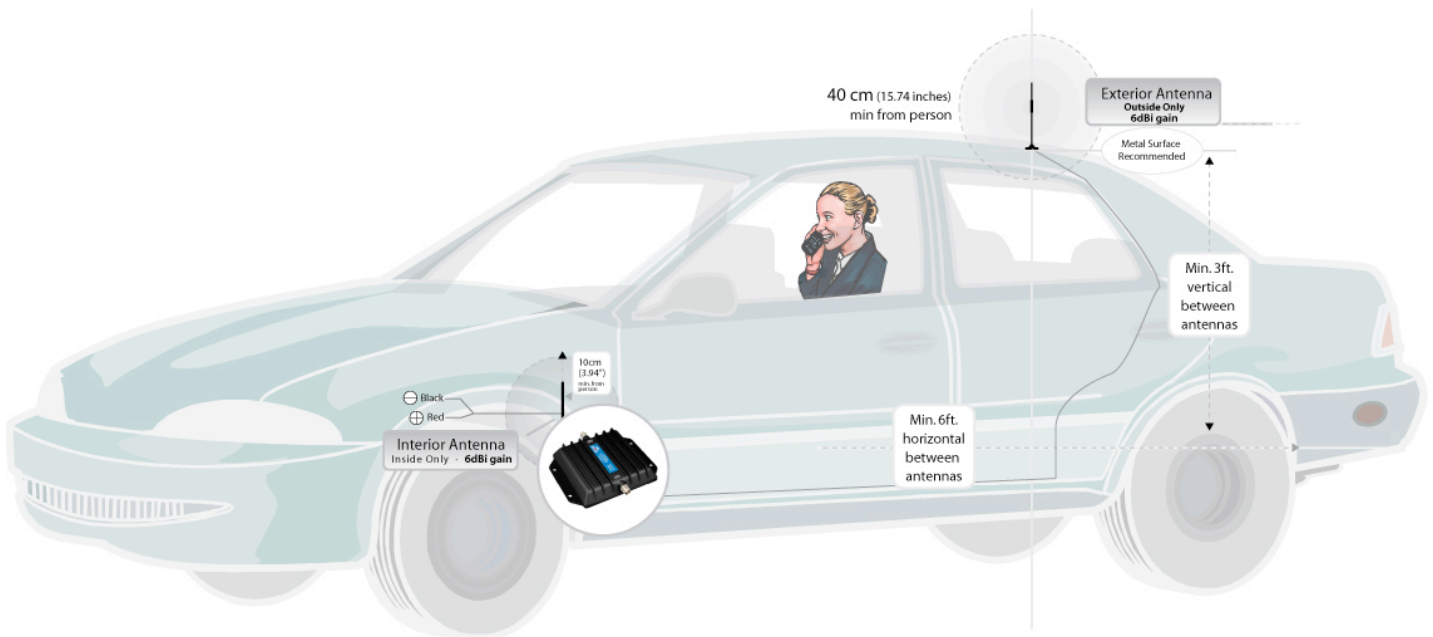
Section # 5 Installation: *Selecting a Suitable Location to Mount the Signal Booster*

- ∇ Antennas must be mounted a **MINIMUM** distance of 40 cm (15.74 inches) away from any person(s).
- ∇ You may place your wireless booster anywhere inside your vehicle, boat or RV, (except as mentioned above). The booster's location should be easily accessible and mounted away from moving parts, excessive heat or moisture.
- ∇ The exterior antenna must be mounted outside the vehicle, boat, RV, or home, and at a distance that can be reached with the supplied antenna cable.
- ∇ If the signal level is decreased, it may be due to location of the interior and exterior antennas. This can be overcome by re-positioning the two antennas further apart.
- ∇ Make sure there is at least six feet of vertical separation between the exterior and interior antennas.

Section # 6 Installation Cautions

- ∇ Use caution to avoid drilling through or near fuel lines or fuel tanks; brake lines; or electrical wiring.
- ∇ Do not mount the booster or its associated wiring in a location that may interfere with the safe operation of the vehicle.
- ∇ If the fuse is changed from the 3 amps to a higher rating the warranty is void. Purchaser of the booster would be responsible for the repair of the unit.
- ∇ Caution: Connection to the negative side with the positive lead will cause damage to the booster.

Proper Installation Diagram





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Section # 7 Typical Installation For Under the Seat Mounting

1. For safety, disconnect the vehicle's negative "-" battery terminal to remove power from the vehicle.
2. Drill holes and mount the signal booster (ITEM 1) in the selected location.
3. Connect the red wire of the supplied 2 Meter (78") power cable (ITEM 2) for the signal booster to a positive connection on the vehicle's electrical system. Choose a 10 to 30 Volt DC circuit that is: fuse protected; and ignition switched. (Often referred to as the "Accessory output")
4. Attach the solid black wire of the supplied 2 Meter (78") power cable (ITEM 2) to a vehicle electrical ground point.
5. Attach an external antenna cable (6dbi max) to the booster's antenna connector. The "Phone" connector on the booster is connected to a cellular phone handset via a RF cradle or an RF cable. You may also connect the optional RF cable for your handset, from the cellular handset to booster port labelled "Phone".
6. Reconnect the vehicle's negative "-" Battery terminal.

Section # 8 Optional Accessories

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Section # 9 Limited Warranty

Cyfre™ warrants that this product is free from any defects in material or workmanship for a period of one year. If a defect in material or workmanship is found, Cyfre™ agrees to repair or replace the product at its own discretion, free of charge, to the original purchaser excluding all shipping charges. To return product, all parts, packaging, and accessories along with original receipt from where you purchased your product must be included with your return. Failure to return all product, parts, packaging, and accessories will result in voiding your warranty. The warranty is void if the product has been modified, abused, tampered with, or subjected to abnormal conditions. Any use of non Cyfre™ antennas or cables will void your warranty.

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Section # 10 Industry Canada RSS-131 Requirements

DBSW819 Specifications per paragraph 5.3

1. The nominal passband gain is 43 dB.
2. The nominal bandwidth is, CDMA 1.2 MHz, TDMA 40 KHz, GSM 300 KHz
3. The rated mean output power:
0.785 W (28.95 dBm) 824.020-848.980 MHz
0.272 W (24.35 dBm) 1850.020 – 1909.980 MHz
0.042 W (16.28 dBm) 869.020 – 893.980 MHz
0.0174 W (12.40 dBm) 1930.020 – 1989.980 MHz
4. The input and output impedance is 50 ohms
5. Notice: The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, there is no change in the rating of the unit. Regardless of the input to the unit, the device will not exceed the rated level of output. The output power per band is the same regardless of whether it is single or multi-carrier operation.