





Thank you for your purchase of the GROM-DSP adapter. Certain BMWs were equipped with what is known as Digital Sound Processing (DSP). DSP is a RG174 coaxial input instead of wires from the BMW CD Changer into the factory amplifier. BMW sometimes refers to this as "premium sound".

Vehicles with DSP as an option:

1997-2003 5-series 2004-2009 X3 2000-2006 X5 2003-2009 Z4

Vehicles with DSP as standard equipment:

09/1998-2001 7series 2000-2003 M5 2000-2003 Z8

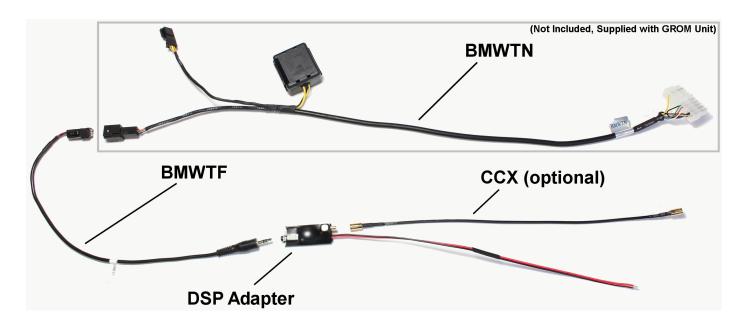
Vehicles manufactured after MY2002 will have to inspect their connections to determine what type of DSP is present. If the vehicle was originally equipped with a CD Changer, this is simple as you will be able to check what connections are connected to your changer.

If the vehicle was not equipped with a changer or the vehicle was purchased used (possibly the changer was removed upon selling of vehicle) you will need to locate the factory amplifier and inspect to see if a coaxial wire is present.

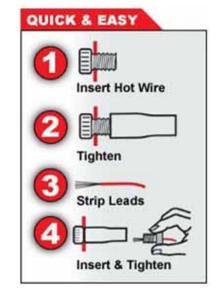
If you should need additional assistance, please take pictures of the amplifier connections and of the original CD-Changer connections to visually confirm whether or not you have DSP and send them to us at **info@gromaudio.com**

Please follow the following installation steps. Please use a digital multi-meter to test vehicle wires to confirm before connecting.





- 1. Connect **RED** wire to a 12-14 + Volt switched power wire. Should turn on and off with the key (ignition or accessory). Red POSI-TAP connector has been included for your convenience to make a connection to power wire. For further info on how to use posi-tap: http://gromaudio.com/docs/posi-tap.pdf
- 2. Connect **BLACK** to Ground (Earth) Chassis of vehicle. You may also locate Ground Wire instead, which is usually a larger BROWN wire located on main amplifier harness.
- 3. Remove factory coaxial DSP cable connected to the CD Changer. Connect the coaxial cable to the GROM-DSP connector Input. Make sure the other end of coaxial cable is connected from the GROM-DSP to the BMW amplifier. Please be sure the coaxial cable is fully inserted. If vehicle does not have this coaxial DSP cable present in vehicle, additional Cable CCX may be be required to be purchased.



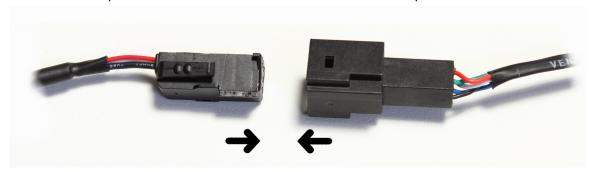




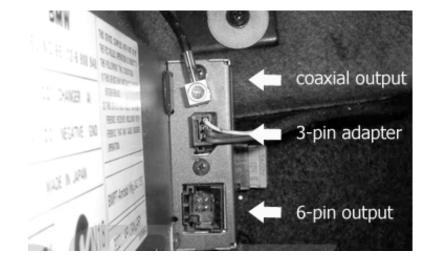
4. Connect the male 3.5mm audio connector of the provided cable **BMWTF** (3.5 mm male – 6 Pin connector) to the female 3.5 mm audio input jack of the GROM-DSP.



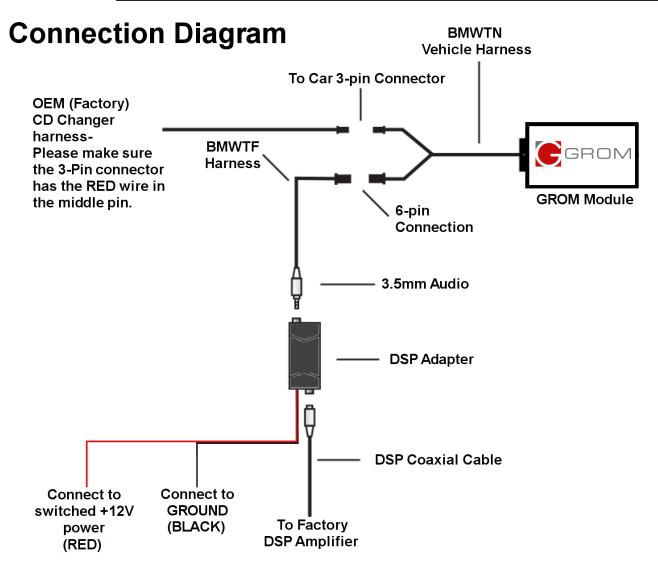
5. Connect the 6-pin connector of **BMWTF** to the **BMWTN** harness 6-pin connector.



6. Connect the **BMWTN** Harnesses 3-Pin connector to the vehicle 3 pin CD-changer cable. Note for BMW trunk installations: Some BMW vehicles are factory wired for the cellular phone system. Except for wire location, the factory cellular phone connector looks identical to the factory 3-pin connector used for the CD changer. The CORRECT 3-pin connector for the CD-Changer has a BROWN wire (ground) in the #1 pin position. Please make certain you use this connector. The INCORRECT factory cellular phone connector has a BROWN wire in the center position – **DO NOT USE THIS CONNECTOR**.







Connector Location

