

Satellite Radio Installation Instructions for BMW Z4 Roadster 03+ with Analog DSP (E85)

Before you begin the installation process, it is **IMPERATIVE** that you read and understand the following information. We also recommend disconnecting your negative battery terminal.

- ***You will need the Satellite Radio ID number to activate the radio. This number is always located on a decal somewhere on the satellite radio module. Write this down before installation begins, as it can be covered up by Velcro once you install the module.***

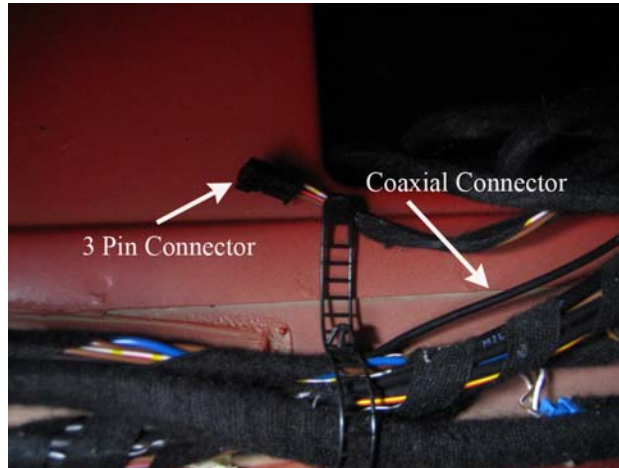
Tools Required for Installation:

- Panel Removal Tool
- Torx T20 (Ashtray Assembly Removal)
- Wire Cutters/Crimpers
- Metric Allen Key Set
- Brain

Accessing Factory CD Changer Wiring – The wiring we'll be working with should be very easily located. However, we have encountered a few Z4's with the wiring buried deep within the center console which required complete removal of the factory center console. If you do not find the wiring within a few minutes, you may want to have your dealer access the CD changer wiring for you. There will likely be a cost associated with this, and Bavarian Soundwerks will NOT be responsible for these costs.

- 1) **The wires we're looking for are located behind the carpeted panel on the rear wall of the trunk, closest to the cabin.** To remove the carpeted panel, remove the trunk floor mat first by lifting it out of the vehicle. We'll only be prying the carpeted panel up just enough to give us access to the area where the CD Changer connections reside. Once you've removed the floor panel, the battery will also be revealed. Go ahead and disconnect your negative battery terminal.
- 2) Now, we'll need to remove the plastic fasteners that secure the upper layer of carpeting along the floor. There are two of them, one on either side of the carpeted panel.
- 3) Now, we can fold the carpeted panel along the rear wall back, and we'll be looking for the rectangular pass-through into the cabin. It's about 6" up from the bottom of the floor, and directly in the middle of the rear firewall. We will be looking for two wires, one 3 pin connector, and one coaxial connection.
- 4) **Both the 3 pin and Digital Coaxial connector will be found tucked into the rectangular entrance into the cabin shown below.** They can be tucked quite tightly in here, so you may have to fish around a bit to release them. They may be found together or the coaxial cable may

be hanging along the bottom edge of the wiring harness. We typically don't use the coaxial connection, as it isn't always routed back to the factory amplifier. See the steps below **and if your Z4 has the coaxial connection plugged into the factory amplifier already**, you can use it in lieu of the supplied coaxial cable.



Making the Appropriate Connections for your Satellite Radio

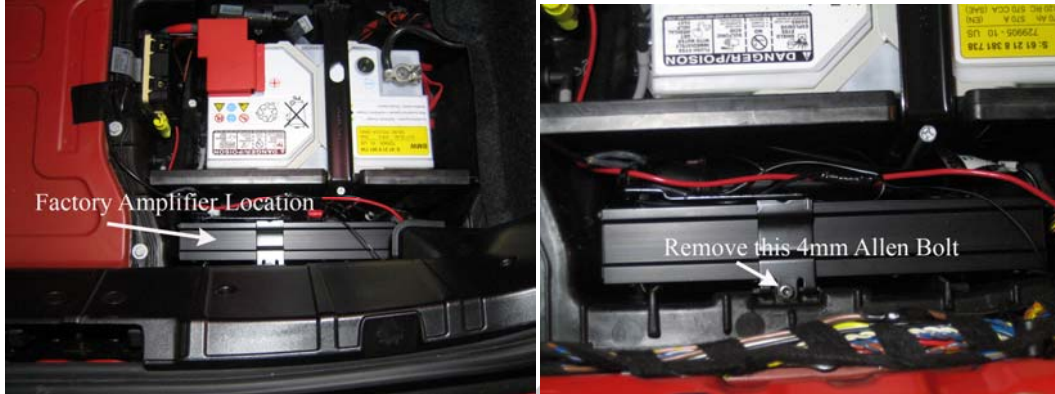
1. Having located the BMW CD Changer 3 pin connector, let's begin making our connections for the DSP adapter. **Do not plug the 3 pin connector in at this point.**
2. **The 3 pin plug on the BMW side of the connection will have a brown wire on one of the outside pins. If the brown wire is located in the center pin, you have the wrong 3 pin connector.**



DSP Adapter Connections:

To make our DSP adapter connections, we'll need to first locate our factory amplifier, where we will make our power and audio connections for the DSP adapter. We will need to remove the factory amplifier as well by removing the 4mm bolt that secures it to the floor.

The amplifier is located in one of two places. It is likely found directly behind the battery, as shown on the next page. It may also be located along the back wall of the trunk. If you don't see your amplifier in the location shown below, your amplifier is on the back wall. That will actually make the install easier, as the connections can all take place behind the carpeted panel.



3. Now, to remove the factory amplifier from its location, you have to pry upward, somewhat aggressively. We need to gain access to the coaxial connection on the side of the amplifier.



4. Now, we need to plug the coaxial cable from the DSP adapter to the factory amplifier. Make sure the coaxial connections snaps *tightly* into both the DSP adapter and the factory amplifier!
5. Now, we need to power the DSP adapter. As you can see, the adapter has a power connection with a Black wire running alongside a Black/White wire. We need to connect these to the appropriate wires in the factory amplifier harness.

Black Wire = Negative (Ground) connects to the large brown wire in the amplifier harness, or you can ground the unit directly to your battery.

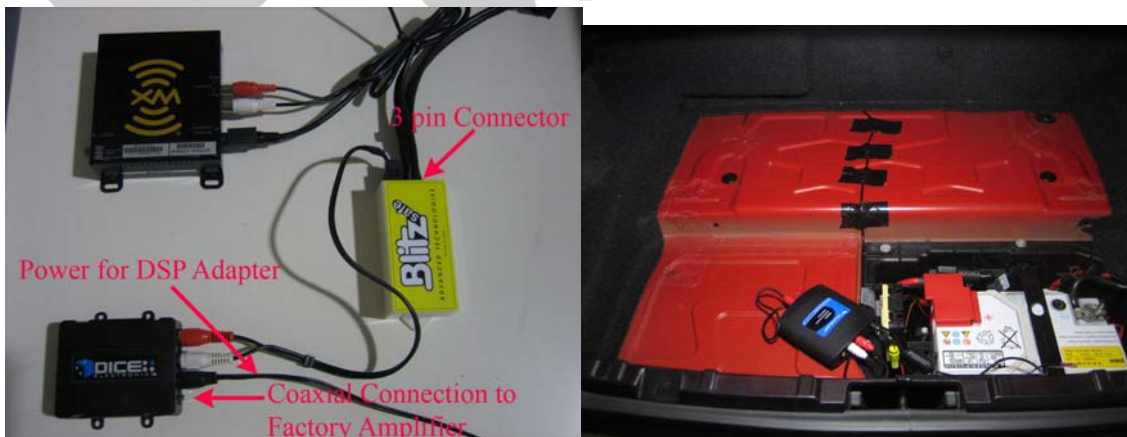
Black/White Wire = Positive (Power) connects to the large Red Wire running alongside the top of

the amplifier harness.



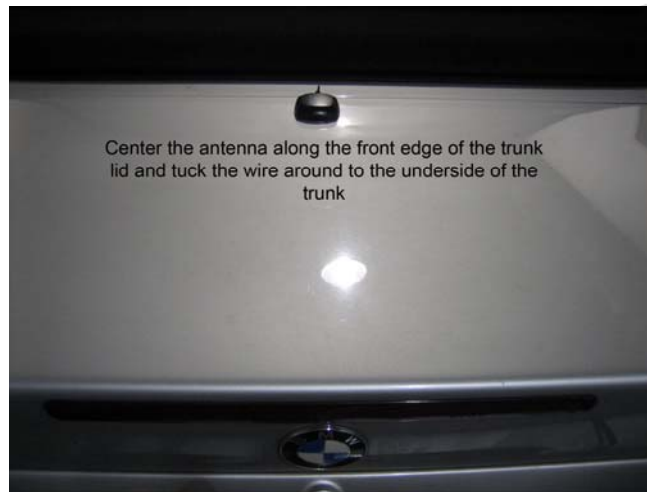
Please note that the photos below may not represent what you have in front of you. All Satellite Radio pieces will install in the same manner, only the physical dimensions may vary.

6. To make the connections, you can use the included T-Taps or feel free to solder your connections. The T-Taps are easiest, but sometimes can be tricky to install correctly. To use the T-Taps, strip back a small area of the insulation all the way around the wire. Using a pair of pliers, tightly crimp the connector onto the wire. You can then attach the included red male spade terminals to the Black and Black/White wires and slide them onto the yellow T-Taps.

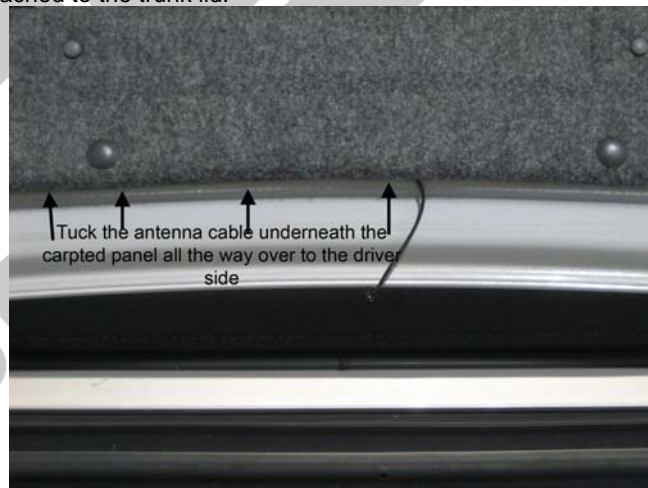


Trunk Lid Antenna Mounting

This is the way we most commonly mount the antennas. Reception is not compromised in any way, as the antenna has a full view of the sky. Since the antenna is magnetic, simply position it on the center of the trunk lid towards the front edge:



1. We'll now need to tuck the antenna wire along the underside of the carpeted panel that is attached to the trunk lid:



2. Route the antenna wire towards the driver's side of the trunk lid. We'll need to get the antenna down into the car. Following the trunk lid hinges, attach the antenna using the supplied wire ties. BE CAREFUL to mount the antenna so it won't get pinched.



3. Now, lift the rubber gasket that lines the trunk seal upward and tuck the antenna wire underneath it. Once under the gasket, simply put the gasket back down on the lip using your fist.
4. **Now, plug the 3 pin connector into the Satellite Radio Module.** Secure all wiring and modules and enjoy your Satellite Radio.

Mounting of the module(s):

The Satellite Radio and/or DSP adapter modules can be mounted in the battery area, or behind the carpeted panel along the rear wall. We've provided Velcro and wire ties for you to secure the various components. Be creative here. It's what makes it fun! ☺