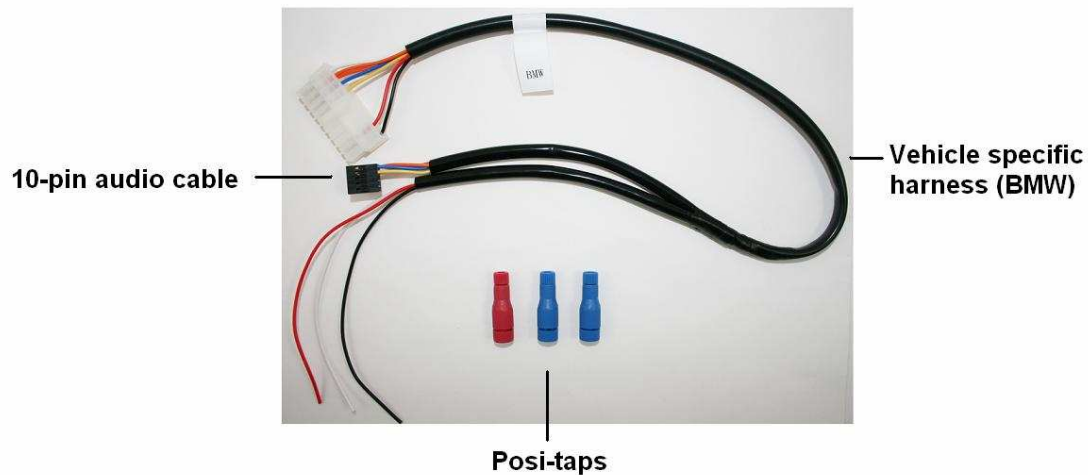


GROM Interface Installation into BMW cars

Dashboard Mounting Instructions



Picture 1

Tools needed

1. A wire strip tool (optional)

Preparation

1. Turn off the car engine and remove the key from the ignition
2. Using the stereo removal tools carefully remove the radio from the dashboard
3. Locate the vehicle specific cable and Posi-Tap clips that came with your adapter (picture 1)
4. At the back of the stereo locate the harness that connects your radio to the car. It should have pins like those shown below (either of two shown) in diagram 1. If your radio has a 12 pin connector, skip the first column of pins (pins 1 & 7) and connect 10 pin Grom connector as shown in diagram 2.

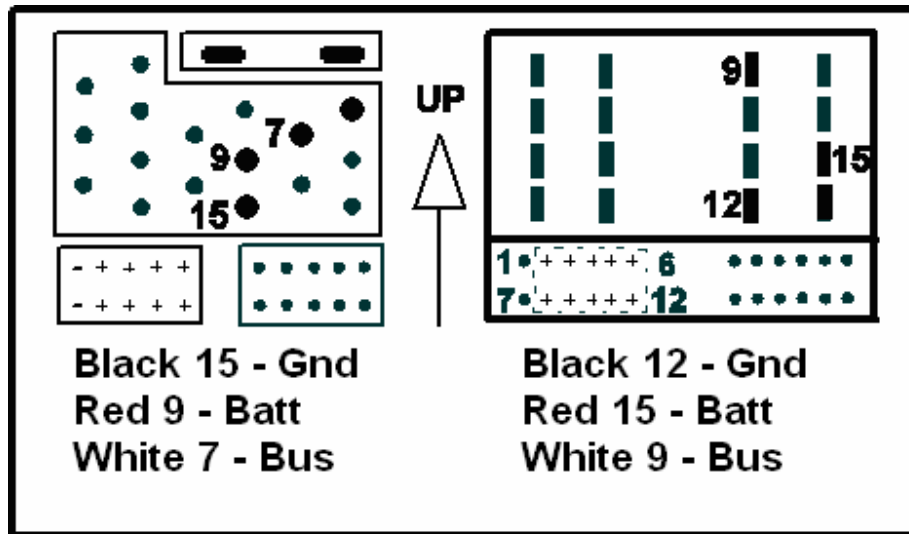


Diagram 1

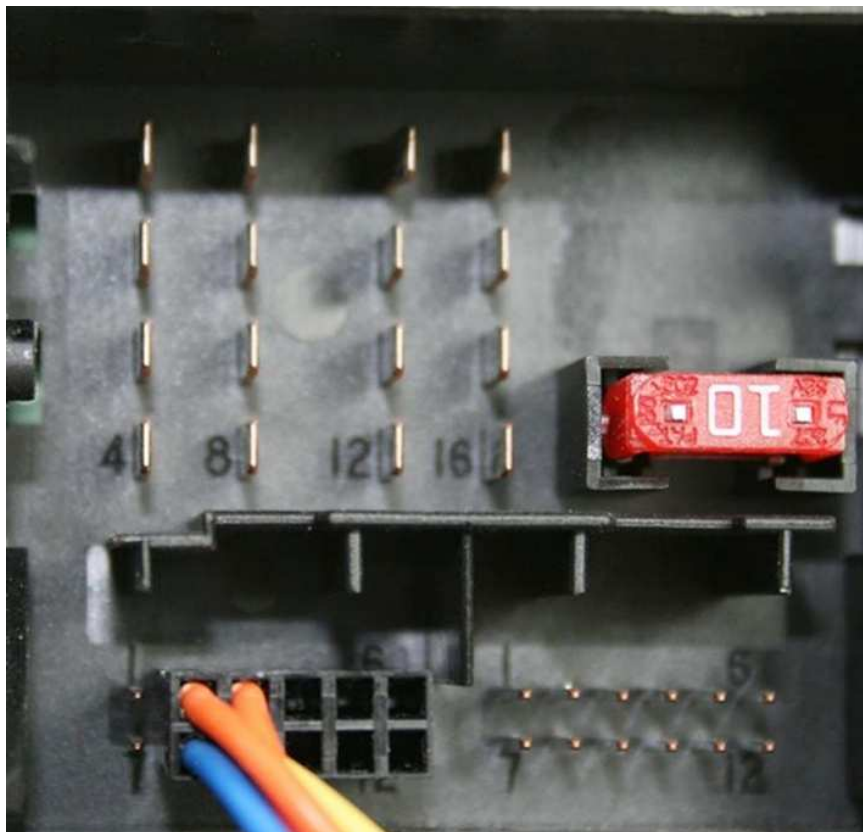
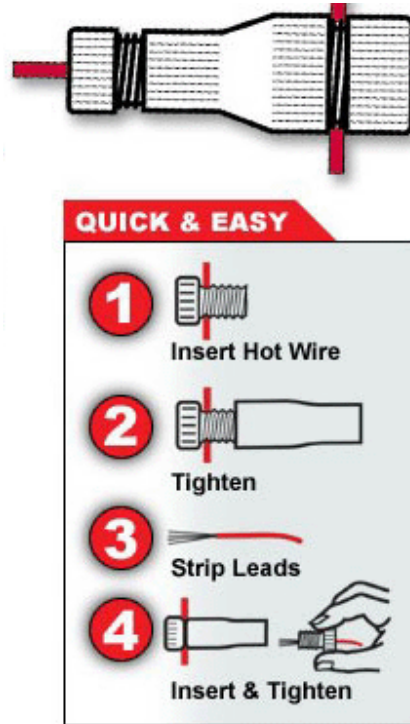


Diagram 2

5. The 3 (three) wires coming out of adapter's vehicle specific cables are color coded: black, red, and white. You will need to connect those wires to the appropriate car stereo wires, following diagram 1 above

6. To simplify the installation, 3 Posi-Tap clips have been included with the adapter: one red and two blue. Use **the red posi-tap to connect the BUS wire**, and the blue posi-taps to connect two other wires. Please refer to the picture below for the proper wire connection (picture 2)



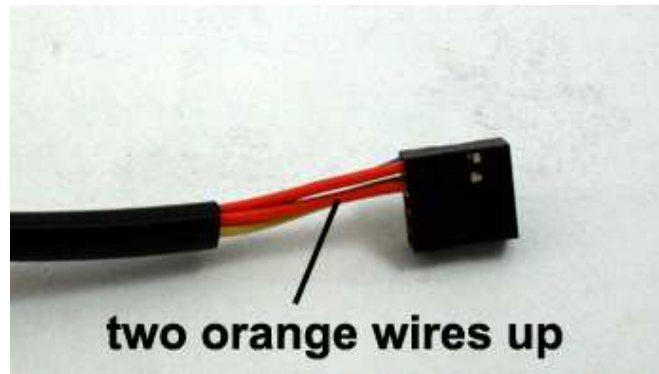
Picture 2

Adapter installation

7. Locate appropriate wires on the car stereo harness (refer to the diagram 1 above)
 8. Connect the wires using Posi-taps provided according to the harness diagram and the color of the adapter wire.
 9. The wires that come from your stereo are "HOT" wires referring to the picture 2.
- Attention: Don't forget to strip the free hanging wires from your vehicle specific harness (picture two).

WARNING! NEVER CUT ANY WIRES THAT COME FROM YOUR STEREO!

10. If you have any problems with using posi-taps please see the installation demonstration here: <http://gromaudio.com/docs/posi-tap.pdf> or contact us for the help.
 11. Use the 10 pin black connector (audio cable) coming out of adapter's vehicle specific harness and attach it as shown on diagram 1 to the car stereo (shown as dotted rectangle with '+' signs).
- Note: Make sure that two orange wires on that connector are pointing up (as in picture 4)!**



Picture 4

12. Find the place for the GROM. In all BMW/Mini there is enough room inside the dash to place the GROM.

Note: Make sure you put the GROM in the place with enough room so when you mount the car stereo back you do not break the adapter

13. You may use glove box or other spaces in the dash to direct the cables out

14. Mount your car stereo back into the dash, make sure its clips are securely fastened

15. Now you can turn your car stereo on and switch it over to CD Changer mode. It should show Disk 1, Track 01 on a display. If it is not - see Troubleshooting section.

16. Congratulations! You have installed GROM adapter and you may use it right now with your portable player.

Troubleshooting

Loose wire connections

Sometimes the wiring may not have a good connection. Please make sure that all wires are securely attached and the posi-taps are tightened. Please make sure that the wires coming from the vehicle specific harness are stripped.

Audio is not coming from the speakers

The 10 pin audio connector on the vehicle specific harness is not inserted properly. Make sure that the audio connector is inserted properly. It should be connected with orange wires pointing up (see picture 4). If radio has 12 pin connector, be sure to skip 1st column of pins when connecting 10 pin Grom connector.

Sound comes only from 1 channel

The 10 pin sound connector (picture 4) is not aligned correctly. Make sure that the 10-pin sound connector on the vehicle cable is aligned correctly and pointing up.