



Product: BMWAUX001
Users and Installation Guide for E46 models
May 7, 2014 – Version 1.1

Many owners are seeking to interface their car's stock audio system with other audio sources, and this adapter allows the CD changer input to be utilized with anything that outputs to a headphone jack, such as an iPhone or iPod. Usage is simple: plug your audio source into the Aux Input jack, and select the CD changer input from your stock audio system. This product is primarily directed towards individuals that do not have a CD changer installed.

The "Aux" message will be displayed when the CD changer is selected. To change back to other functions while "Aux" is displayed, press any button on the head unit, and the aux message will be cleared, while the aux input continues to play. Subsequent presses will allow function changes. In this mode, the head unit may display CD 1-01, and button presses that would search, access different tracks or disks with the stock CD changer will not affect the the aux in function.

Requirements: Your car must be prewired for a CD changer. Find the CD changer wiring in the trunk of the car, typically behind the trunk trim on the left hand side of the vehicle. If you do not have a CD changer installed, you will install a provided module on the 3-pin connector to act as a CD changer, allowing the head unit to select this input.

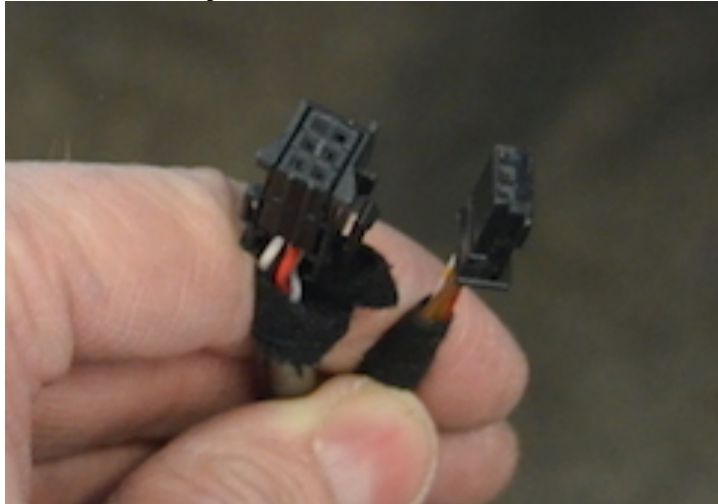
Installation overview: In this procedure, you will first install a module to emulate the presence of a CD changer. After verifying that the module is working correctly, you will remove your head unit, route and install the Aux Input cable, and reinstall your head unit.

Time required: about 30 minutes

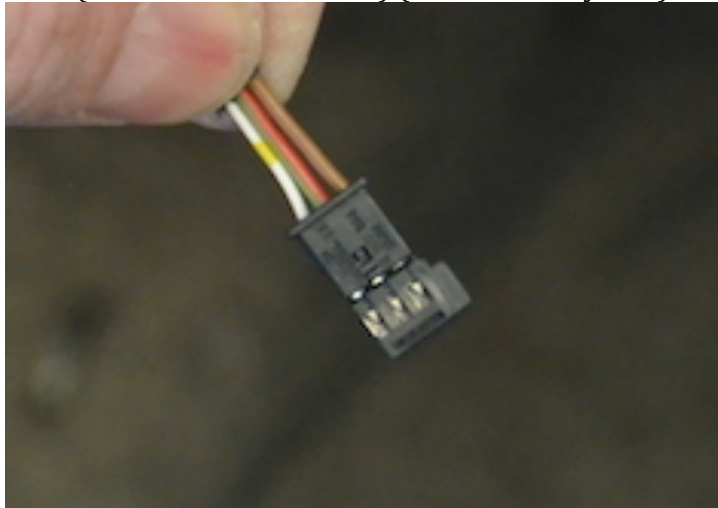
Tools required: putty knife or slim flathead screwdriver for trim removal, Phillips screwdriver.

- 1.) If no CD changer is present or is non-functional, install 3 pin module to the 3 pin connector in the trunk.

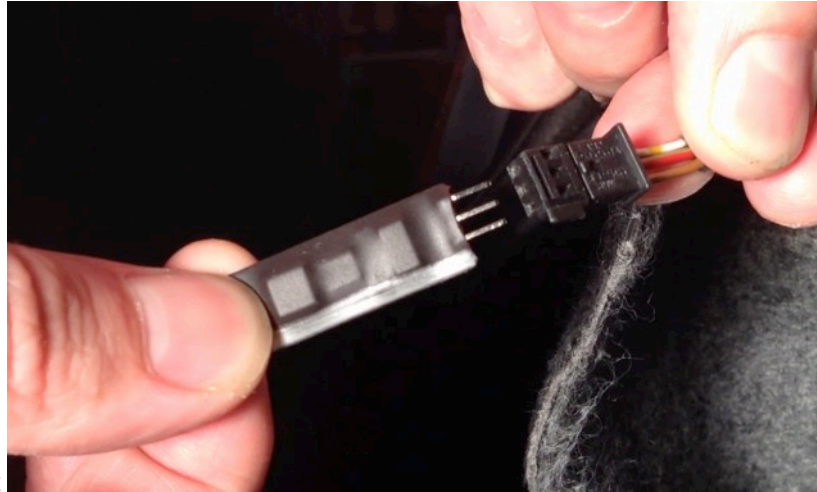
- a. On e46s, the CD changer wiring is typically found on the left side of the trunk behind the trunk liner trim. Remove the left hand taillight and disconnect the harness connector.
- b. To ease access, the plastic tray under the taillight can be removed, and two trim retainer clips are removed to allow the trunk trim to be pulled away from the fender to locate the CD changer wiring.
- c. Often the CD changer will be tied up behind the fender. There may be other cabling associated with an optional telephone. Look for a cable with two connectors on the end, one connector has a 3 pin terminal, and the other a six pin terminal.



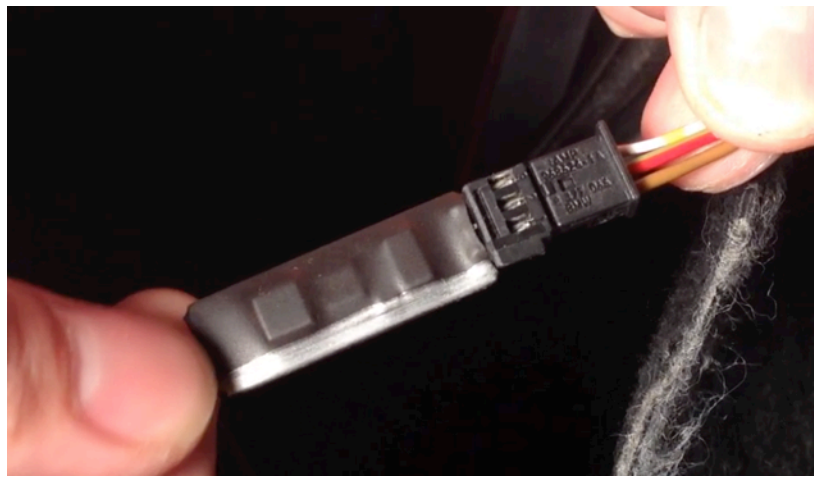
- d. The 3 pin connector has a brown wire (ground), a red wire with green stripe (12VDC power), and a thinner gauge white with red/yellow stripe wire (IBUS data connection) (at least on my e46)



- e.
- f. The silver side of the module goes towards the brown wire side of the connector. If the connection is reversed, the aux input will not function properly and will disable the radio. If this happens, the radio must be reset by pulling the radio fuse (on e46s this would be fuse #7 above the glovebox). Until the radio is reset, the radio will not detect the module.



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- g. Secure in place to the connector with electrical tape
- 2.) Test aux input module operation
- a. Turn on accessory power on car. Note: the taillight out indicator will light since we have removed the taillight.
 - b. Turn on stereo
 - c. Select CD Changer input
 - i. On tape deck head units, press CD
 - ii. On CD deck head units (assuming you have a CD in your player), press CD twice
 - iii. You should see "Aux" or "CD 1-01" on your head unit display, indicating CD changer input is selected. Note: you won't hear anything right now.
 - iv. If CD changer input cannot be selected, there is an issue with the module or its installation. Remove and reinstall module, ensuring that silver side is towards the brown wire side. Removing the module will reset the module, and it could possibly be reversed, or it could have been installed on the wrong connector. If you still cannot select the CD changer input, contact us and we will work through the issue together.

- 3.) Once module operation has been verified, replace trunk trim, reconnect and reinstall taillight.
- 4.) Install Aux In cable to back of head unit.
- 5.) Remove dash trim above passenger seat – 1 minute
 - a. This dash trim piece is held on with 4 clips and is removed by prying underneath trim from the edge nearest the passenger door.



- 6.) Remove dash trim around stereo – 1 minute
 - a. This trim piece is held in place by one clip between the steering wheel and the console, and this clip is removed similar to the long trim piece
- 7.) Remove 2x Phillips screws on either side of the stereo - 3 minutes



- 8.) Slide stereo out

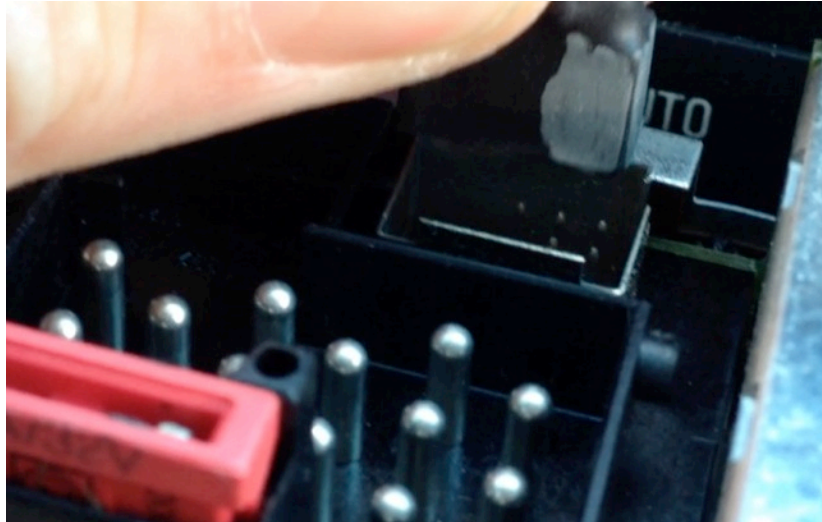


- 9.) Note connections on the rear of the stereo
- There are typically two antenna connectors that pop off on one side of the back of the stereo
 - There is a bus connector that is removed by placing a flathead screwdriver under the sliding retainer and prying upward.



- This bus connector has the CD changer wiring under the main connector pins.
- 10.) Remove 10-pin CD changer connection from bus connector. There may be a blue retainer that slides out to allow the CD changer to be removed from the harness connector.
- 11.) Thread aux input 10-pin connector through the bus connector opening, and install to the CD Changer input on the back of the stereo, with silver side of connector facing towards the antenna connections. Newer radios might use 12 pin connectors for the CD changer input. In this case, skip pins 1 and 7 and place the 10-pin connector over the remaining pins. If you haven't got this correct, you will only hear one channel of audio. In this case, ensure you haven't skipped pins 6 and 12 instead.





- 12.) Reinstall bus connector, and slide down retainer to lock in place.
- 13.) Reinstall antenna connections, and route Aux Input wiring to an accessible location.
 - a. Typically the Aux Input can be installed by drilling a $\frac{1}{4}$ " hole anywhere near the head unit.
 - b. I recommend the sunglasses storage area typically found underneath the climate control unit, and I also recommend that the $\frac{1}{4}$ " hole be drilled towards one side of the compartment. With a typical male-male 3.5mm audio cable, your source device can be stored in the storage area. This location can be a bit tight to reach, so alternatively you can mount the aux in on the panel next to the DSC, seat warmer, etc. buttons.
- 14.) Place stereo temporarily in its spot.
- 15.) Adjust volume and ensure that audio source is playing through your car's speakers.
 - a. Plug audio source headphone jack into aux input
 - b. Ensure audio is playing
 - i. If no audio can be heard, and CD changer input was able to be selected from the head unit, there is an issue with the cable, the installation, the audio source or head unit.
 1. Ensure volume on head unit is adequate by selecting the radio source.
 2. Ensure music is playing from audio source by plugging in a set of headphones
 - a. Some audio players stop playing when the headphones are removed, so keep this in mind.
 - b. Ensure music can be heard in stereo from both sides of headphones.
 3. Ensure that male to male 3.5mm audio cable is functional.
 4. Ensure audio cable is securely connected to head unit CD changer port, with the silver side facing towards the antenna connections on the back of the head unit. (Not typical: Some head units have two sets of (10 pins; 2 rows of 5 pins) ports under the main wiring

harness connector. The left connection as seen from the back of the radio towards the antenna connections is the CD changer input. Ensure that the correct input is used. (picture/diagram to be added)

- ii. Ensure that audio can be heard in stereo, from both sides of the car. Use balance control to ensure both channels are properly heard.
 1. Problems with both channels not being heard at this point could be due to several reasons:
 - a. Male-male audio cable not fully inserted into the aux input.
 - b. Aux input not securely installed into headunit.
 - c. Faulty Aux input cabling – We test each cable during production, but issues happen. Contact us and we will help work through the problem together.
- 16.) Once audio is satisfactory, reinstall stereo.
 - a. Slide stereo fully into the space, ensuring that cabling is not tangled or impeding progress. It should fold behind stereo. This would be a good time to recheck that everything is working well as the wiring may have gotten disturbed or unseated when stereo was reinstalled.
 - b. Install 2x Phillips screws on either side of stereo
- 17.) Replace trim around stereo by pressing clip into socket until it is securely fastened in place
- 18.) Replace trim above passenger by pressing 4 clips into sockets until it is securely fastened in place.
- 19.) Enjoy the Aux Input!
- 20.) If there are any issues, please contact us at customerservice@quidzel.com. We want to ensure your satisfaction.