



Business CD Radio AUX and CD Interface for iPod / MP3 Player

Some info and images for the aux cable courtesy of bmwfaq.com

Tools:

Soldering Iron

Pliers

Xacto Cutter or dremel with cut wheel

Electrical tape or heat shrink tubing

CD/AUX Interface Parts:

IDE harddrive cable

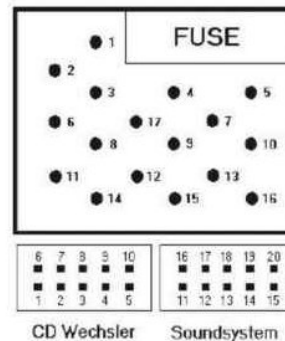
Copper wire or copper pins

Male or female stereo Jack (users choice)

AUX Interface specific parts:

2 condensors C=0,22uF

1 resistor = 300KΩ



How to:

The first step is to cut the IDE connectors (both for CD cable, one for AUX cable) and leave only 10 pins. The connector will then fit directly into the AUX or CD port of your BMW radio.



Of the 10 pins, 4 are required to interface to the CD port, and 3 for the AUX port (2002+ BMWs only, earlier models won't have the AUX connection on the back of the Radio unit).

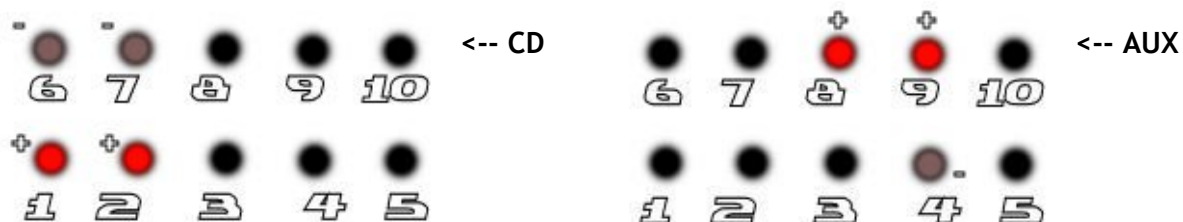
The cable will end up looking like the image in the middle right.



Only part of the pins will be used, so you need to cut the cables that will be needed to interface to the input ports. In the case of the CD interface the cable will bypass the 4 trunk CD changer outputs, and that means you will lose the ability to play regular audio CDs. Now, the cable that goes from the trunk cd changer into the CD radio is a FEMALE connector, so you need to cut 10 strands of copper wire (around 10mm each) that you will insert into the connector on one of the ends of the CD cable.

There are different pin assignments for the AUX ports, keep on reading below to select the appropriate ones.

Next is the pin assignment in the BMW Business radio:



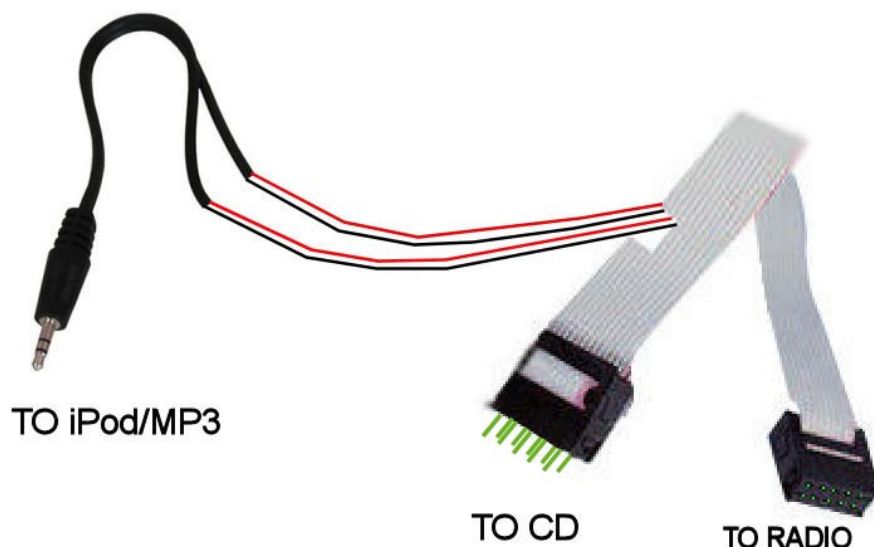
CD Interface pinouts: 1L(+) & 2R(+), 6L(-) & 7R(-)

Aux Interface pinouts: 8L(+) & 9R(+), 4(-) common ground

*** For the AUX port, you can cut the adapter cable in HALF, meaning, you will only use one of the connectors.

CD ADAPTER CABLE

The following image shows the complete assembly for the **CD adapter cable** notice that one of the connectors was converted from female to male using those strands of copper wire:

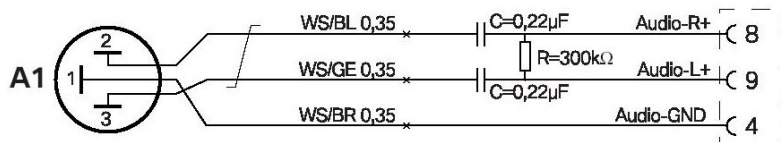


As you can see in the image, the 4 outputs from the cd changer will be bypassed with the 4 outputs of your iPod or MP3 player.

Make sure the L&R channel signal (+) and grounds (-) are in the correct order.

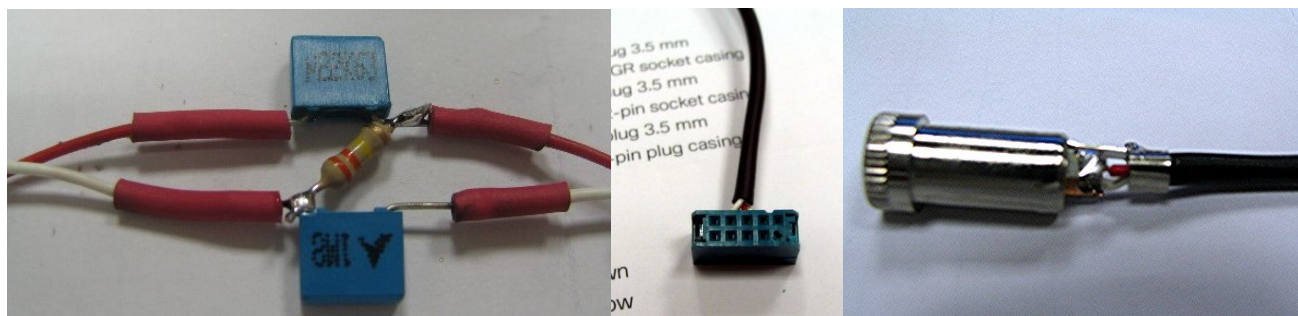
AUX CABLE (2002+ units)

Wiring schematic:

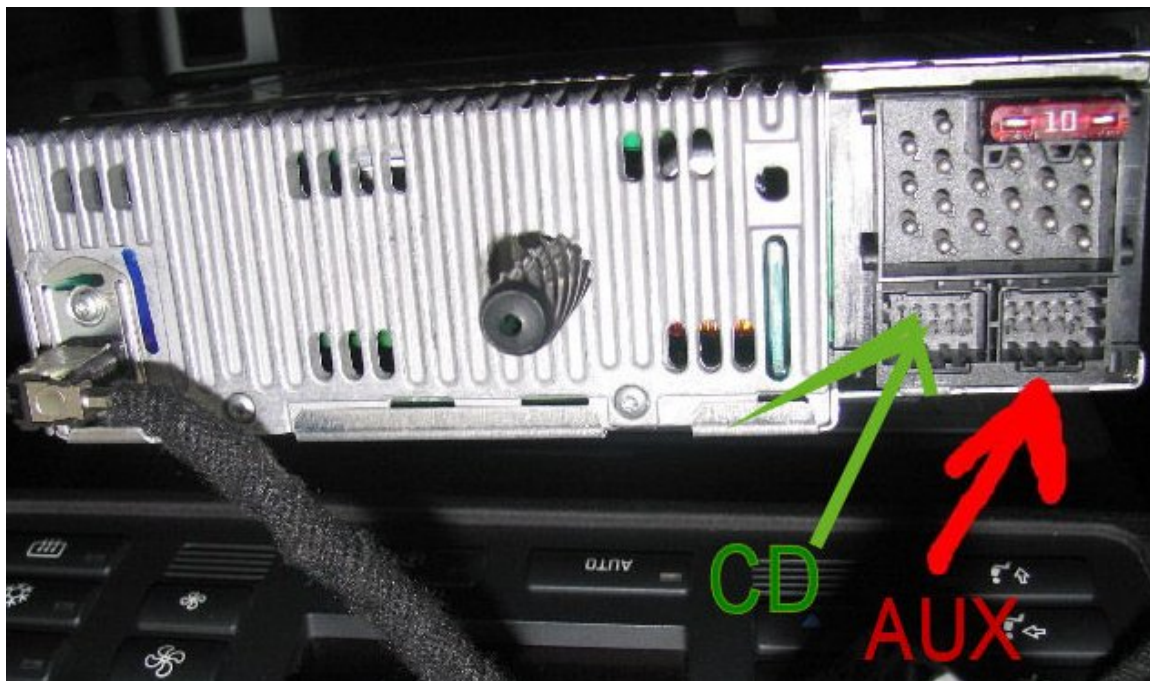


Solder the resistance and condensers as shown between pins 8 and 9 (both +). And join both ground cables so they connect to pin 4. Place a MALE or FEMALE stereo jack on the other end.

Wrap in electrical tape or better yet, use heat shrink tubing.



Connect the cables to the back of your Radio (removal procedure not shown).



Place your stereo jack connector, either male or female, in your favorite spot.

For the radios with the AUX adapter, just tune your radio to AUX using “M” (mode), for the cd changer units, just select CD from the radio unit.

Remember CD changer users, you will loose all CD sound, and you will need at least one music CD in the trunk, i recorded 6 cd copies which i have there permanently. Another option not covered in this article is placing a selector switch in the cable to select between CD or MP3 player.

Please send corrections or suggestions to “gtraptor@gmail.com”

Rob Hernandez.
Version 1.0, Dec 2006