

fiber optic cables. See Figure 11.

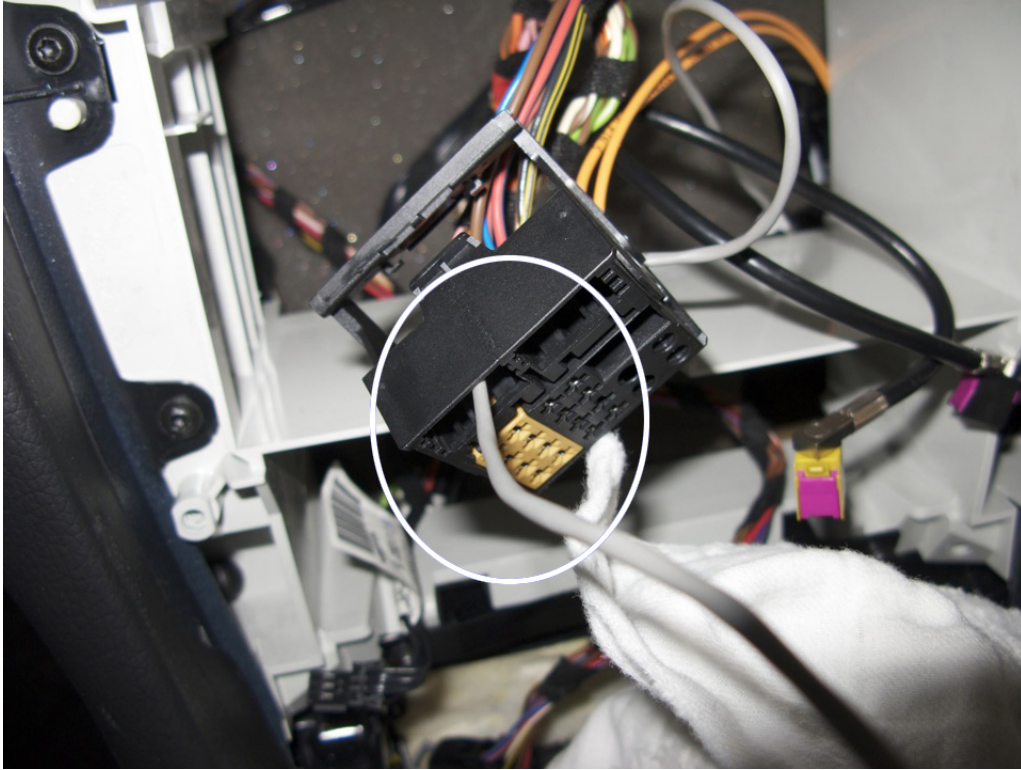


Figure 11: Wire Route Path through Connector Harness

Once you have routed the wires from the passenger footwell up through the center console and through the connector harness, you just need to plug it in to the headunit. The single wire should connect to Pin 12 on the group of pins above the power and speaker connectors. The connector with two wires should be connected to Pins 5 and 6, with Pin 5 being your ground connection. Be careful, as these pins are fragile and can be easily broken. They should more or less slide on with relative ease. If there is any significant resistance, stop what you're doing, and try to figure out what might be blocking the connector. When I did it, there were some burrs on one of the connectors that didn't let it slide in easily. I rotated the single wire connector and it all slid together easily. See Figures 12 and 13

Once you've connected your cable up to the headunit, go ahead and reconnect the cable harness as well, so that the headunit will have power. If you feel confident, reattach the antenna connections as well. Slide the headunit back into place.

6 Testing

Now it's time to test to see if you did everything correctly. This is optional, but I suggest that you test it using an old CD player or Tape player that has no sentimental value to you. In the event that you miswire something, You don't want to fry your iPod! Power on the headunit, and turn the volume all the way down. Attach one end of the 3.5mm male-to-male cable to the Mercedes Cable, and attach the other end to the headphone jack of your audio source. Set your audio source to approximately 75% volume. Press and hold the "CDC" button on the headunit until it switches to Aux-In mode, and then slowly raise the volume on the headunit until you hear sound. Congratulations! ☺. It should work the first time if you've been following the guide carefully. If it doesn't, see Troubleshooting below. After you're satisfied that it works, turn off your headunit and unplug the 3.5mm cable from the Mercedes Cable.

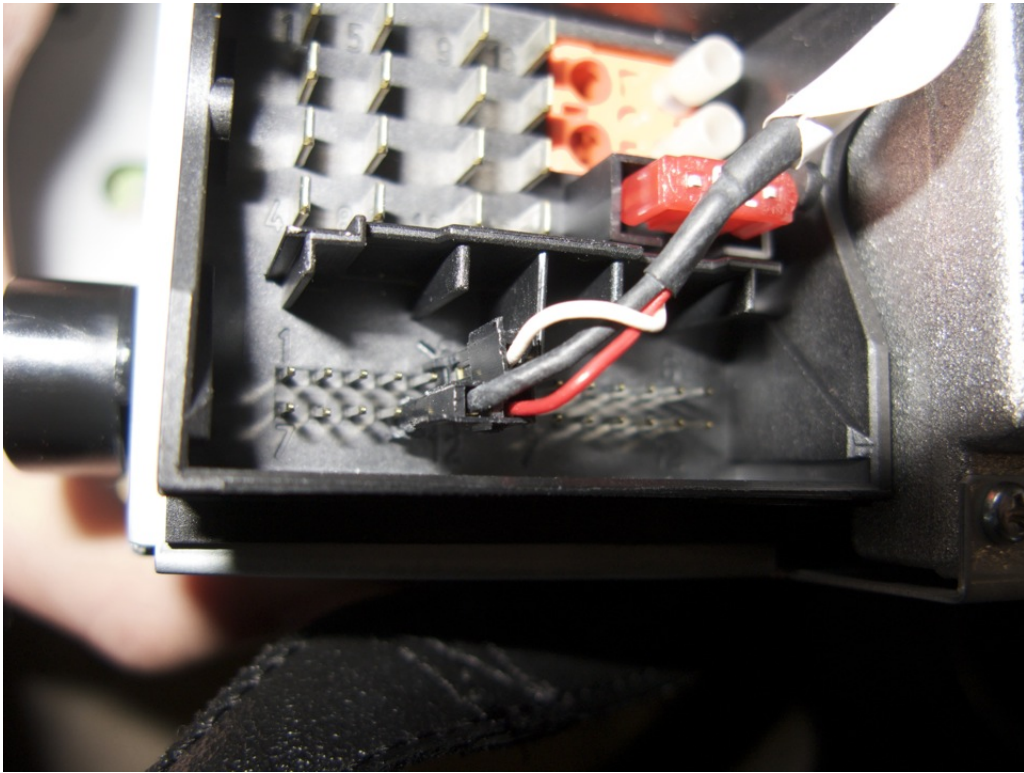


Figure 12: Connection to Headunit

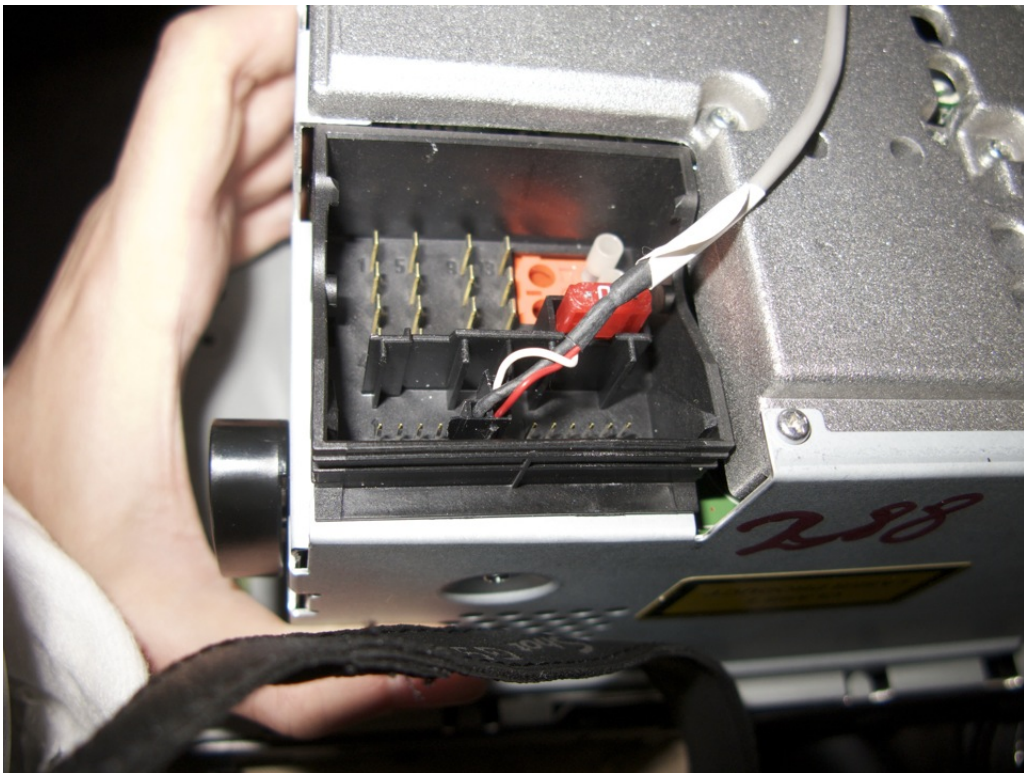


Figure 13: Connection to Headunit

7 Finishing Touches

If everything works, we're almost done! We just need to finish routing the cable up to the glove box. I tucked mine behind the lip of the passenger's kickplate, but route as you see fit. There's a lot of space right on top of the kickplate for excess wire to go, so just stuff it all back there. Make sure you route the cable up to the right side of the glovebox, and press it into place where the Aux-In cutout is. (you may need to punch or cut it out first... it should already be pre-scored for you. Use the X-Acto knife to cut it out). Figure 14 shows the general overview of how I routed the cable, with Figures 15 and 16 showing some closeups.



Figure 14: Passenger Compartment Wire Route Path

Put the screws back in place for the kickpanel, and reassemble the center console. You're done! Now go enjoy your tunes. ☺.

8 Troubleshooting

Okay, so you tested it and it wasn't right. Don't worry, it's probably just a minor issue. When I first tried this, one of my clip-leads was bad, and it just so happened to be the ground connection. Go figure, eh? Took me a few minutes to figure out that it was the clip-lead and not my wiring. So, here's a couple of things to check first.

- If you hear audio only coming out of the left speakers, recheck the connection to Pin 12. If it appears to be fine, try flipping the connector to Pins 5 and 6. You may have inadvertently swapped your Ground and Left Channel wires.
- If you don't hear any audio at all, recheck the connection to Pin 5. That's your Ground connection, and it needs to be connected before you'll hear any audio through your headunit.

If none of these are working, grab your multimeter, and beep out the wires with your 3.5mm connector.

If there are shorts or breaks in the wire, you need to pull it out. However, if all you did was wire it up differently than how I did it, it's relatively easy to fix that. All you need to do is make sure the wire carrying Ground is going to the Ground pin on the headunit. Likewise, make sure Left and Right are connected to their respective pins.

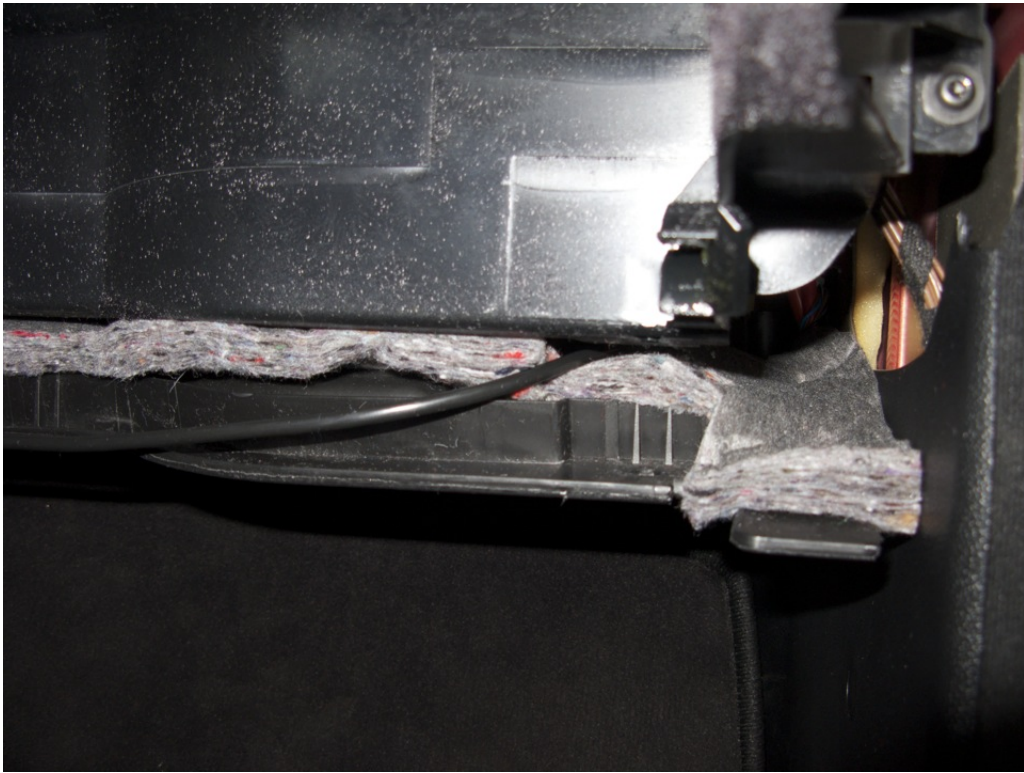


Figure 15: Closeup on right-side kickplate



Figure 16: Closeup on right-side of glove box

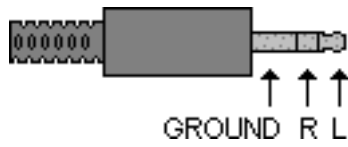


Figure 17: 3.5mm Pinout

Give it another go, and see if it worked! If not, and you're still stuck, you might want to go seek out some help from a more technically proficient person. Good luck!

9 Closing

I hope this guide was able to help you add Aux-In to your C-Class Mercedes. This would also work on any other car, as long as it has the SAME headunit. Good luck, and feel free to send me comments.

10 Appendix A

This appendix contains the complete known pinout of the Audio 20 Headunit. Again, most of this was culled from the Russian website. Note that pin names in quotes (" - ") means the literal translation, and I have not figured out exactly what its function is. Also, there is no pinout for Connector 4.

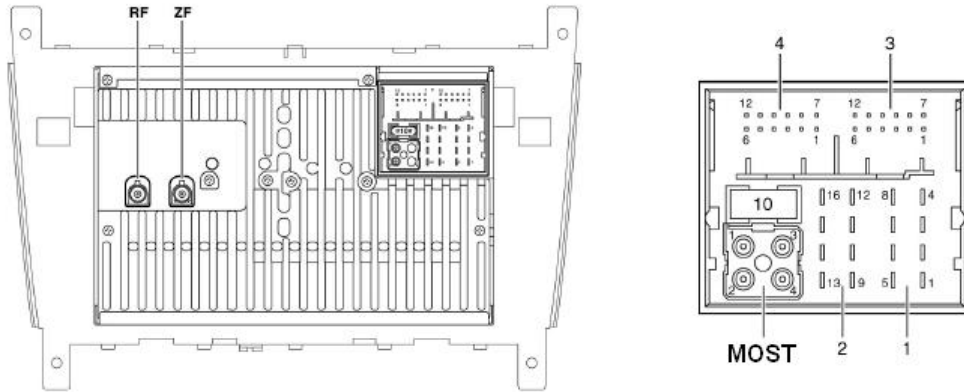


Figure 18: Pinout Diagram for Audio 20 Headunit

Connector 1			
1	Speaker rear right +	5	Speaker rear right -
2	Speaker front right +	6	Speaker front right -
3	Speaker front left +	7	Speaker front left -
4	Speaker rear left +	8	Speaker rear left -

Figure 19: Pinout for Connector 1

Connector 2			
9	CAN Low (CAN A)	13	"Power Antenna"
10	Mute	14	"Not Busy"
11	CAN High (CAN B)	15	"terminal 30"
12	"terminal 31"	16	"Wake Up"

Figure 20: Pinout for Connector 2

Connector 3			
5	Ground	11	"Mass Aux-Connector"
6	Aux-In Left	12	Aux-In Right

Figure 21: Pinout for Connector 3