

The following is a general installation guide for wiring for a trailer hitch connector. This install was completed on a 2006 Audi A4. The aim was to not see the wiring once the install was complete. I had some cheap speaker wire laying around that I used to splice between the lights and the connector.



Remove the cloth cover and use a large regular screwdriver to remove the plastic screw holding the taillight assembly on.



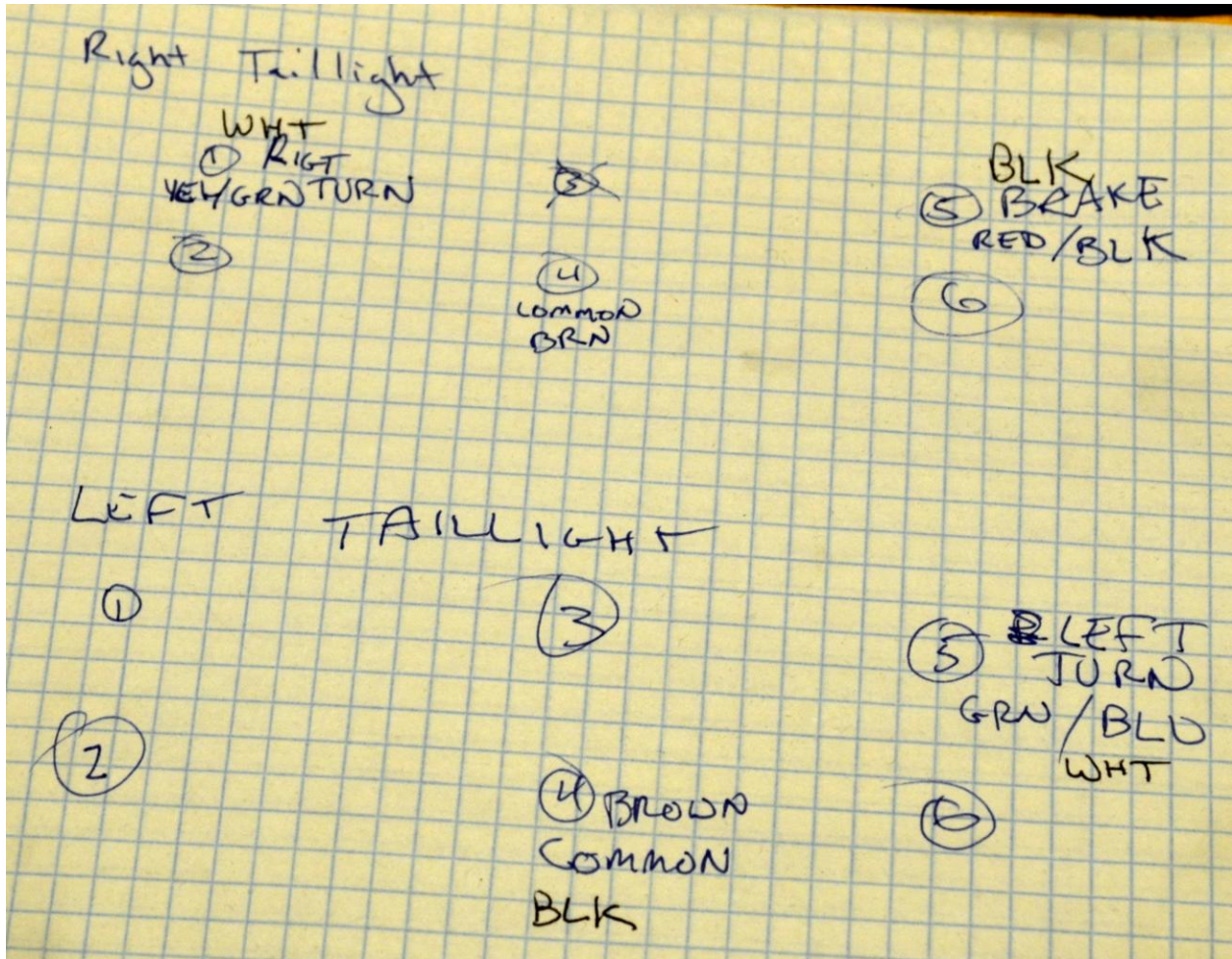
Drivers Side Taillight removal showing harness and connector.



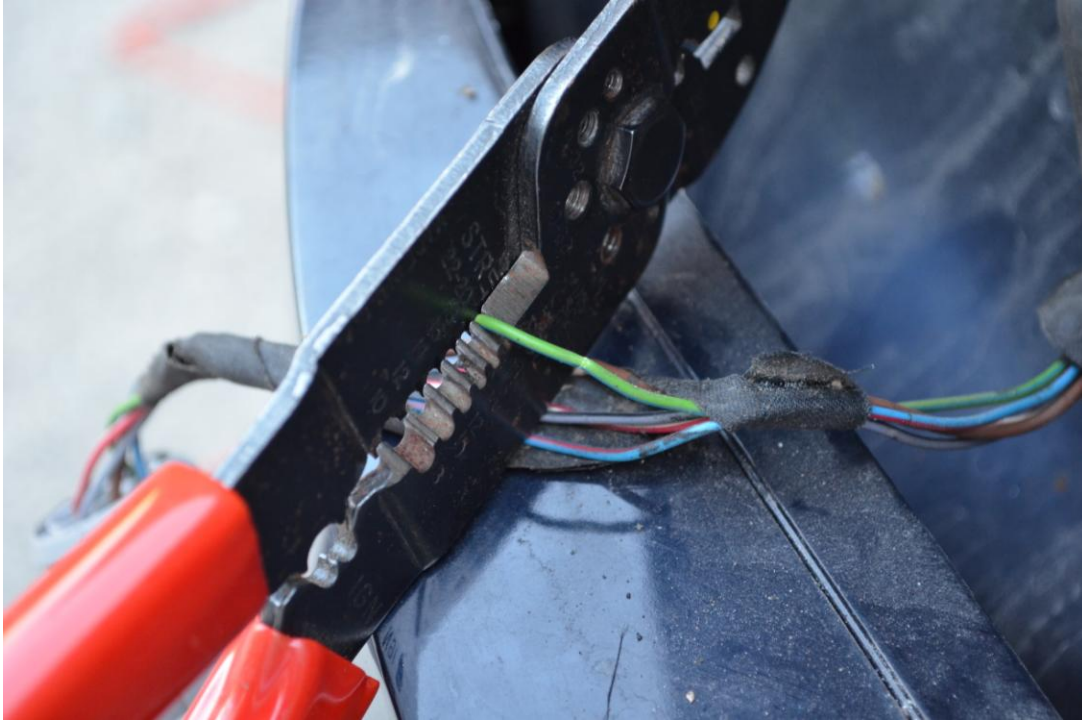
Drivers side taillight numbering / coloring.



Passengers side numbering and coloring.



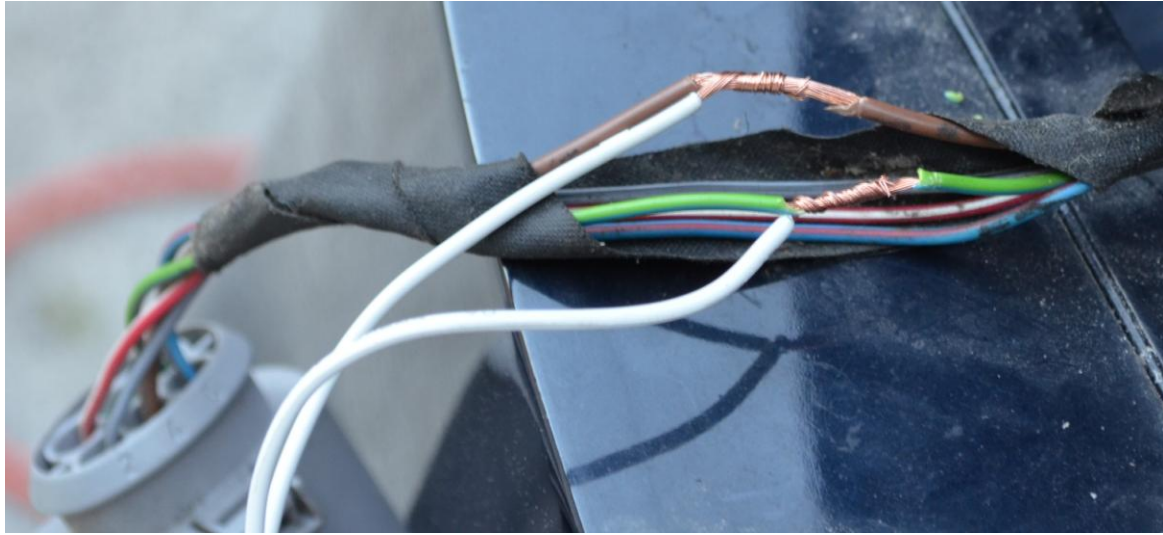
Here is the breakdown of what number terminal on each taillight corresponds to what color and what functionality. Although you can tap into various combinations to make this work, the following is how I did it. On the right taillight you will need to tap into the Yellow/Green (Right Turn Signal) [Terminal 2] and the Red/Black (Brake light) [Terminal 5]. On the left taillight you will need to tap into the Brown (Common/Ground) [Terminal 4] and the Green/Blue (Left turn) [Terminal 5].



To make the connections I spliced into the wires. I did this by crimp-cutting about a 1/2 strip on each of the wires I wanted to splice.



Remove the shielding to expose the bare wire.



Wrap the new wires around the exposed section of wire. Add some flux and solder.





Wrap each wire individually with electrical tape, and then wrap the tape around the new wire and the old bundle for 1" or so to provide some strain relief.



I drilled a new hole to the side of the hole for the main screw that holds the taillight assembly on. I suppose you could fish this through the existing wiring grommet, but this path seemed easier. I strongly suggest spraying the edges of the new hole with some paint to prevent rusting.



Fish your new wires through the hole you just drilled and into the trunk compartment.



Once you pull the wire to the length you want, wrap the wire with some electrical tape. I built up the diameter to that of the hole I drilled. The tape will help to protect the wire from any sharp edge and will act as a stopper so that you cannot pull too much of the wire into the trunk compartment.



I also taped across the wire in order to help seal the compartment from the elements and provide strain relief.

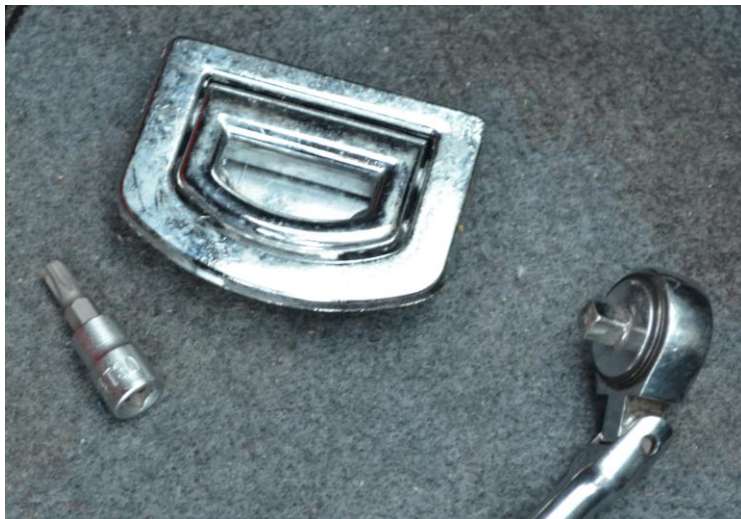


Here is a picture of the taillight re-installed and the new wiring. I strung the wire behind the inner cloth lining so that you cannot see the new wire once the install is complete.

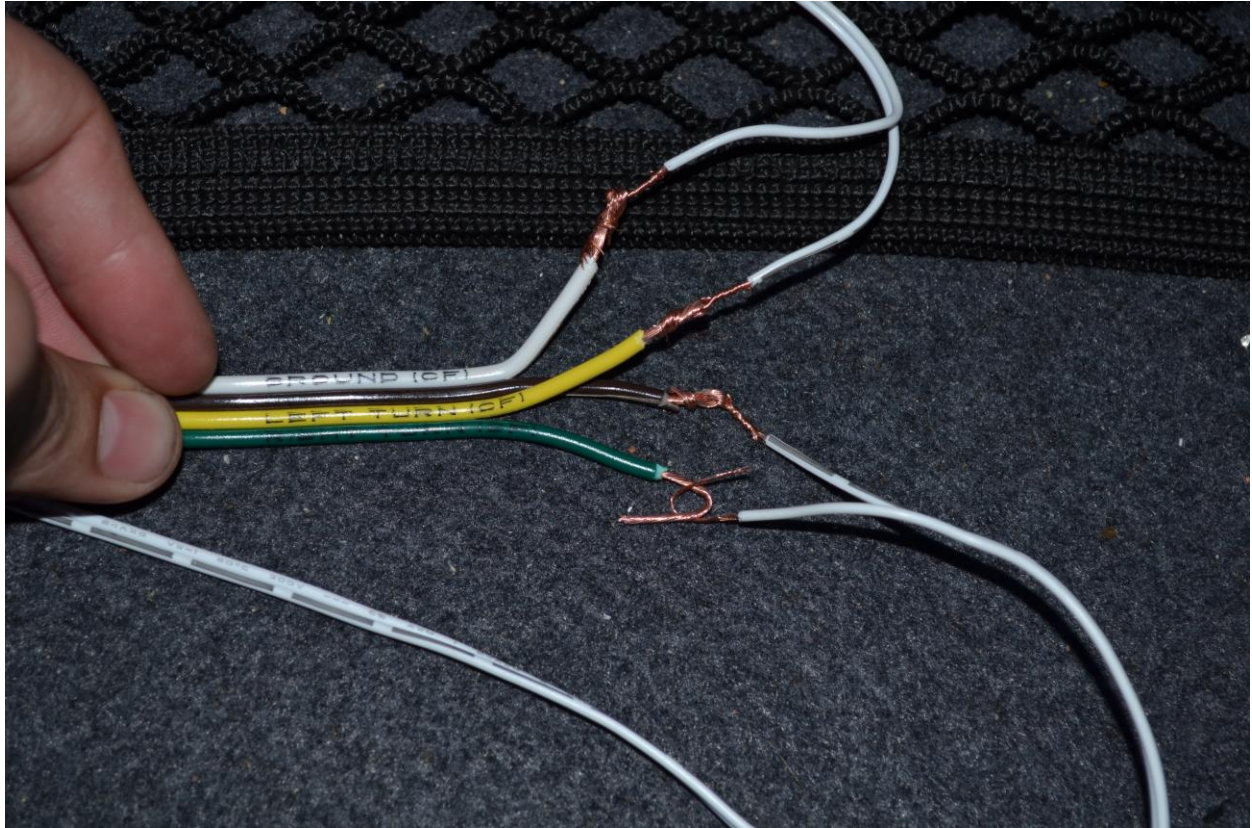




I removed the two cargo hold-down brackets to run the wire below the hold downs and underneath the cloth by the trunk latch.



Remove the brackets by removing the 2 torx screws holding them down.



Use a J-hook splice to attach to the hitch lighting connector. Test out the connections to make sure you have everything wired correctly and then solder. Finish by shielding each wire with electrical tape. I ran the wiring behind the cloth liner and had it all come together at the center of the trunk. The excess length of wire is left below the spare tire cover until you need to use it.