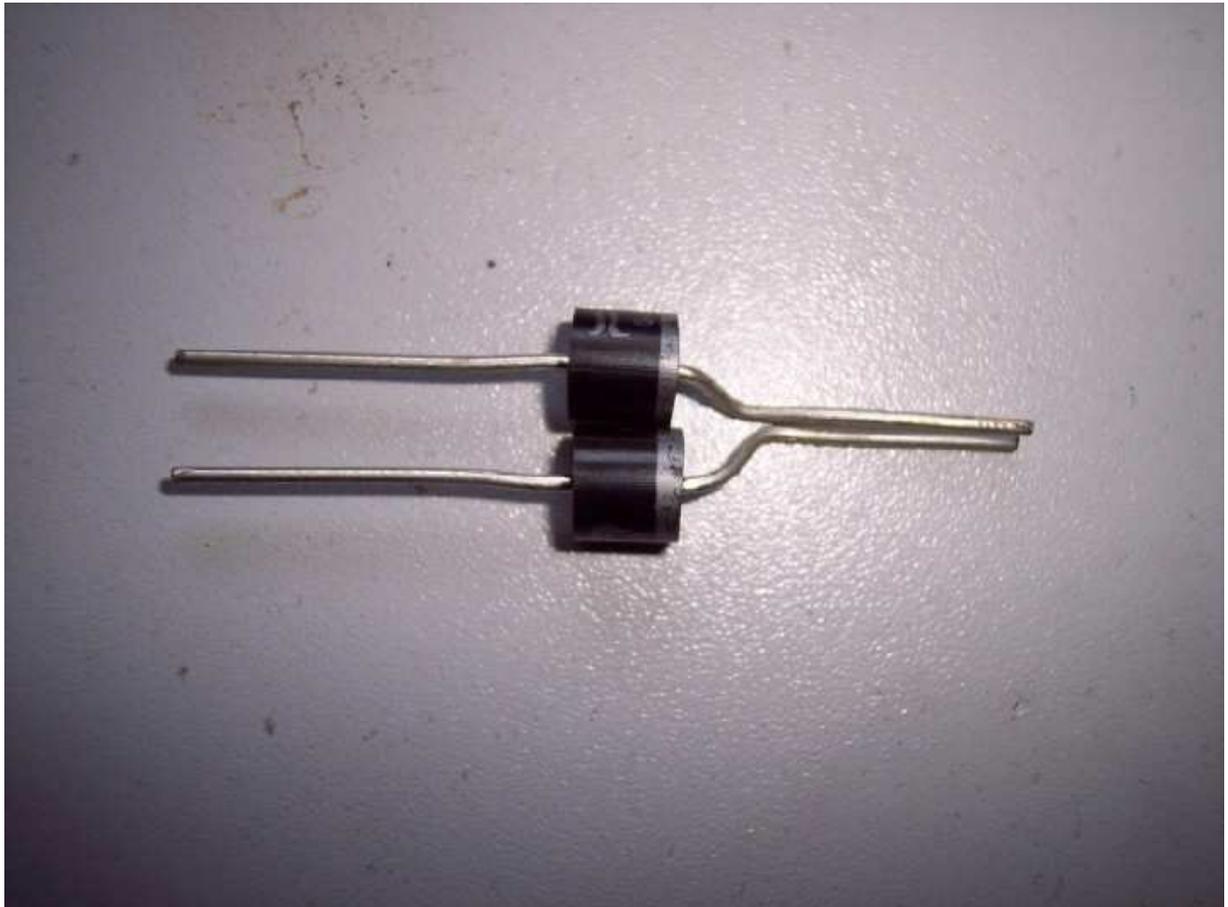


## **FOG BRAKE LIGHT MOD.**

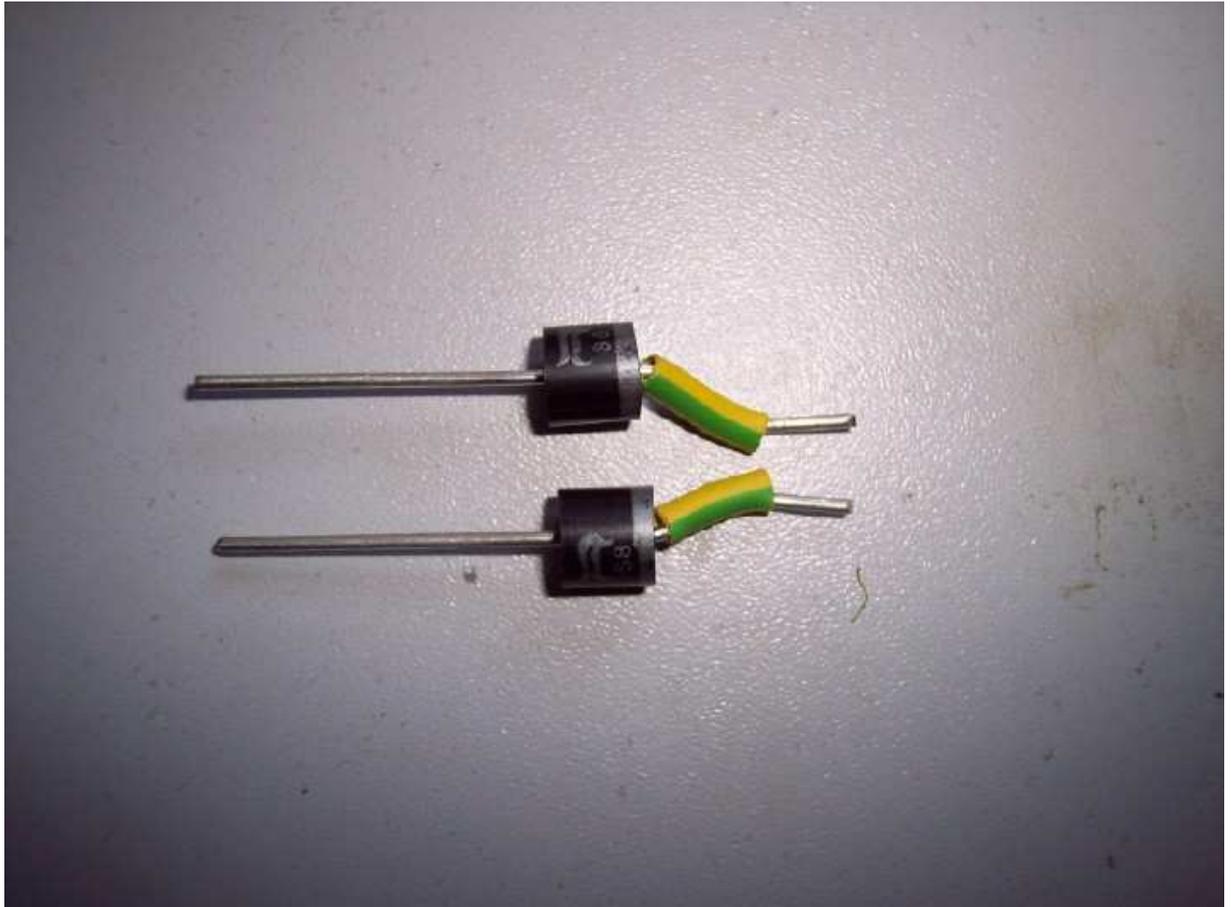
Ok some tips off the Au site and modified the method to make it easier, in my opinion.

I used 2 x P600A diodes but any P600X series will do the job. They have a forward current of 6A and a minimum blocking voltage of 50V. Remember that the current will be blocked by the end with the stripe (cathode).

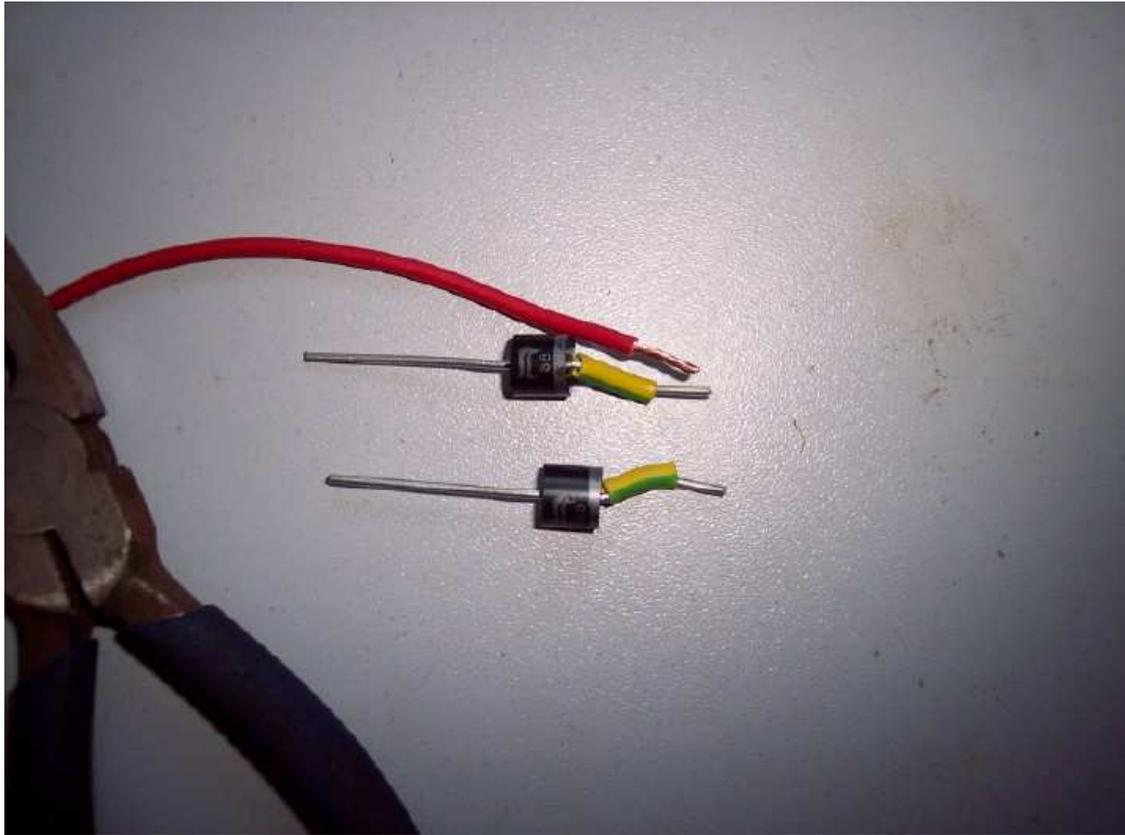
First take some long nosed pliers and bend the wire from the cathode end of each diode like this



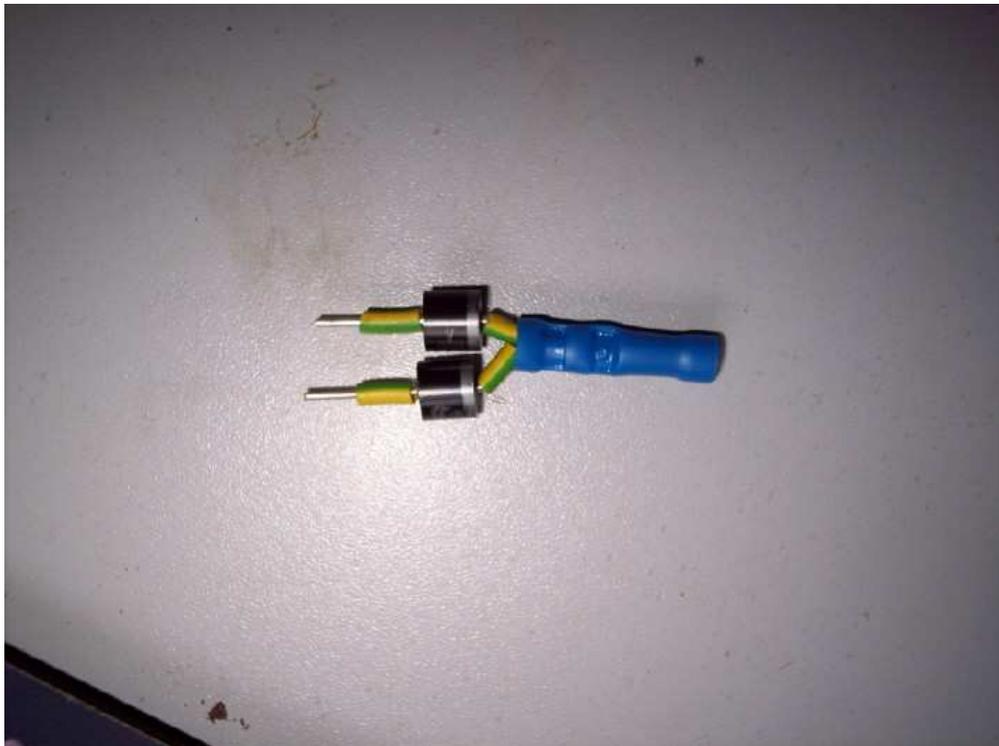
Next trim back the ends of the wires to leave about 10mm of the straight part and I used some earth sleeve to provide some insulation



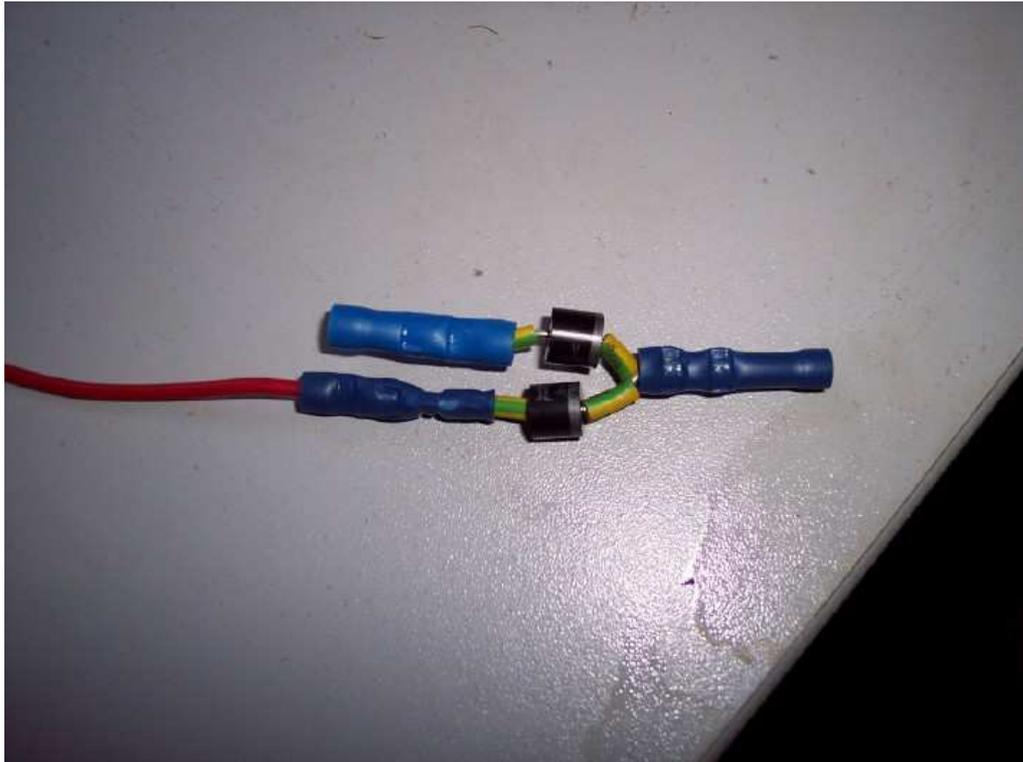
Take about a metre of 8A automotive wire and strip about 10mm of insulation off one end



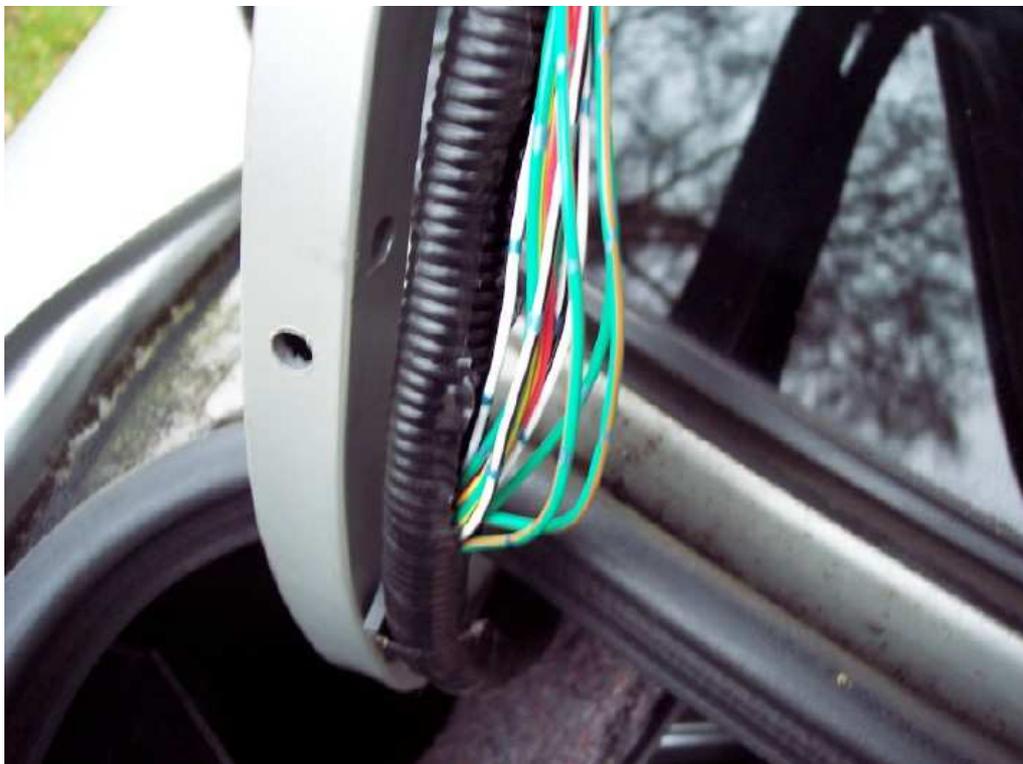
Next using a pair of pliers twist the diode wires together and securely crimp on a through connector. Trim the other diode wires back to about 20mm in length and slip on 10mm of sleeve onto each.



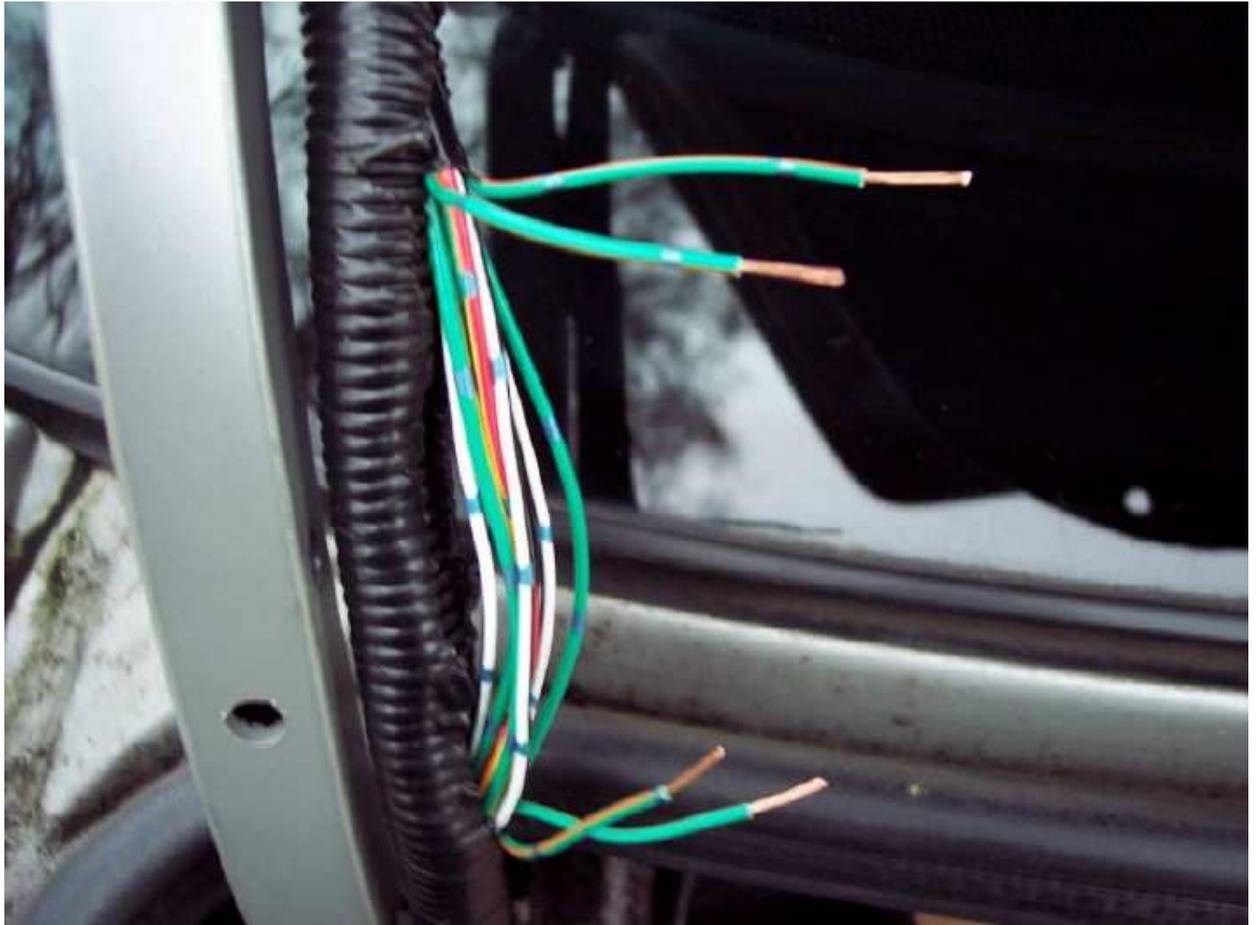
Securely crimp on through connectors to the remaining diode wires and the 8A wire into the other end of one leg.



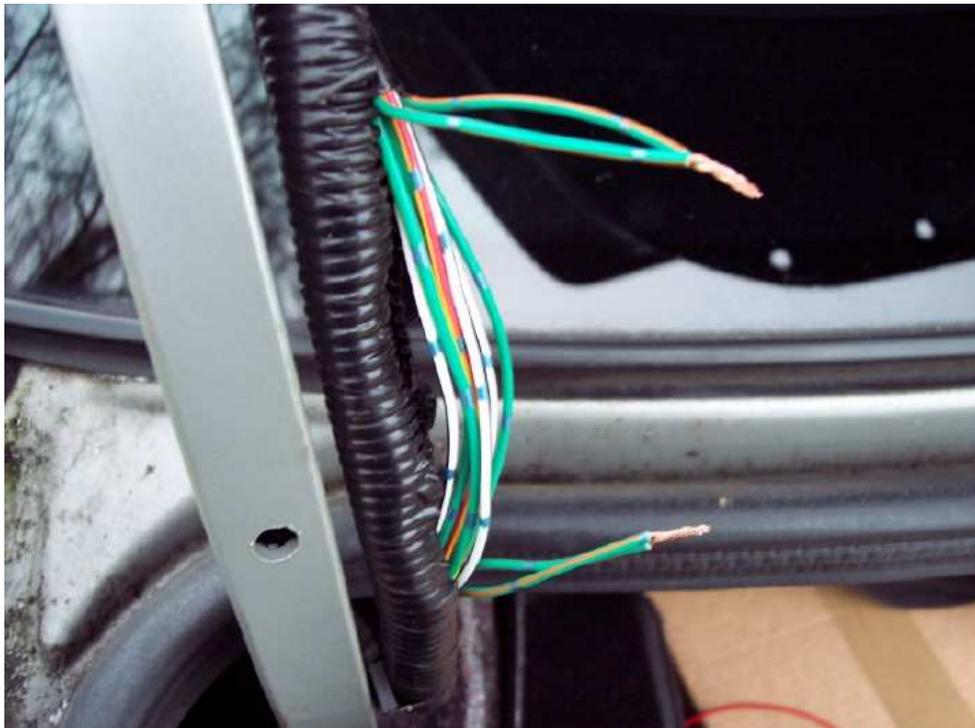
You are now ready to fit this to the car. Open the boot and on the left hinge you will see the cable loom flexible conduit. Unclip one of the clips off the hinge and carefully cut the insulation tape holding it closed. Pull out the wires and find the two green wires with a brown/orange stripe and a metallic blue/silver fleck. These feed the fog lights.



Cut the wires and strip back about 15mm of insulation.



Twist the ends of the feed and load wires together.



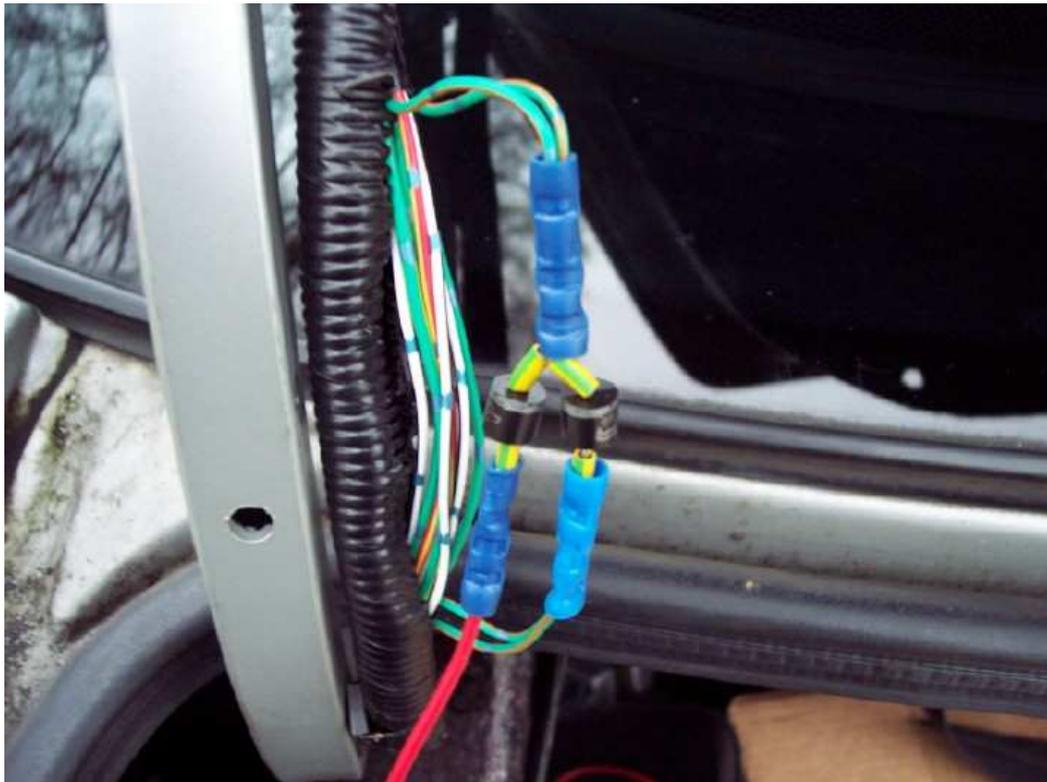
Now take the diodes and insert the ends of the wires into the two through connectors and securely crimp them ensuring that the cathode ends of the diodes are connected to the

feed

to

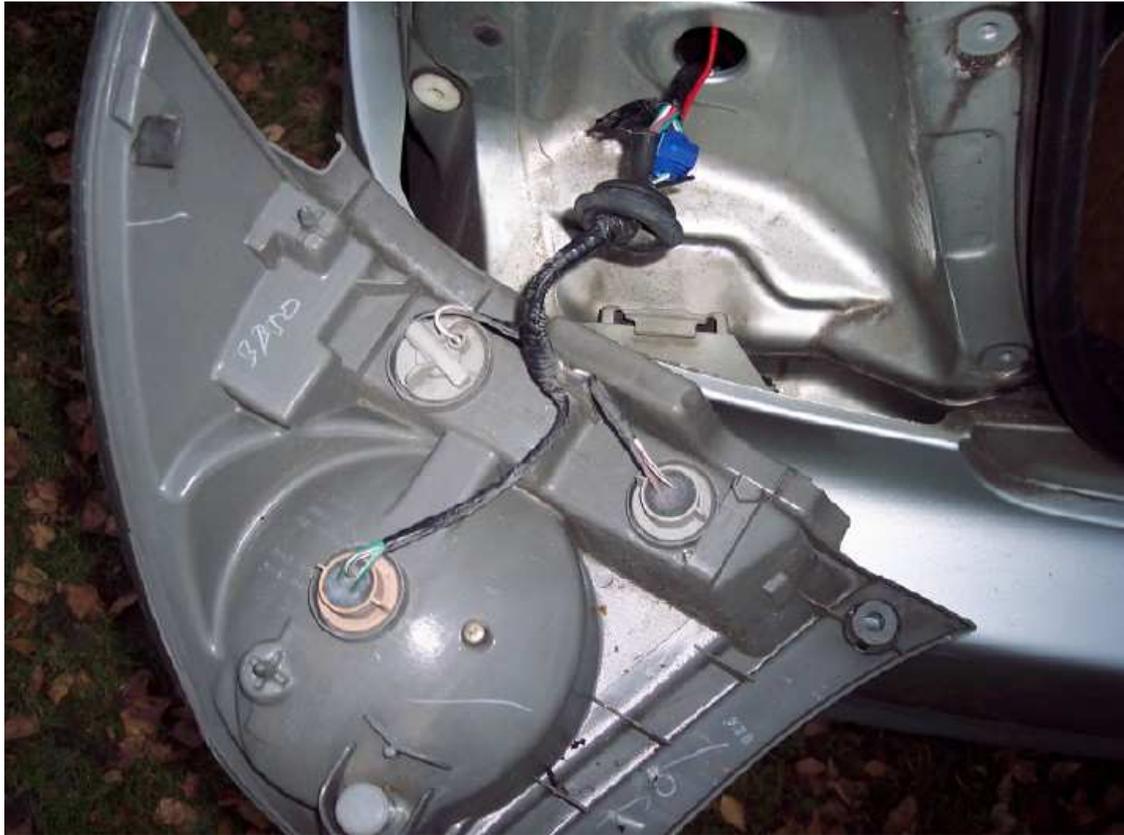
the

lights.



Now you need to pull off the boot liner on the left hand side to get access to the back of the rear light. Remove the rear light and pull out the grommet, carefully cut back the insulating tape on the inside of the grommet and find the green wire with a white stripe, this is the power to the brake light. Pass the end of the 8A wire through the grommet hole and use a "scotch lock" to connect into the brake light feed wire.





Now test it all out. Use insulating tape to tape over the brake wire connection and replace the grommet and light. Tape up the flexible conduit by the boot hinge including the diodes leaving the feed from the brake light outside. Tape on the retaining clip and press back into the hinge arm. Use tape to secure the brake feed wire to the flexible conduit ensuring that you leave enough slack in the wire for the boot to close. And finally replace the boot liner 😊

#### **To add the rear light conversion.**

Connect a wire to the Green wire on the rear lights (you connected to green and white for the brake) then run a wire the same route as the fog conversion.

#### **American Site holders**

Now get your new holders, the wires should be Green, black and red (American site) . Now I THINK the black is neutral, red is for the rear lights, and green for the fog/brake. I stress I THINK, just try it on the battery first, put the bulb in, then the black to the negative, touch the green to positive and it should light, then the white and it should get brighter. If not play around till you figure it out.

#### **Genuine Lexus Holders**

Now get your new holders, the wires should be Green, black and green/white . Now I THINK the black is neutral, green is for the rear lights, and green/white for the fog/brake. I stress I THINK, just try it on the battery first, put the bulb in, then the black to the negative, touch the green to positive and it should light, then the white and it should get brighter. If not play around till you figure it out.

Now you'll need to make them fit into the fogs, they may need a bit of trimming but they will fit.

Get the old fog holders, cut the white and black wire and join that to the neutral wire (maybe black). Then cut the Green and black (maybe green and orange) wire and attach that to the brightest wire (green/white (green) I think).

Now the new wire you've run from the lights, split it and run that to the final wire on both holders and job done.

Now when you turn on your lights you should have 4 rear lights and they all get brighter when you brake.

### **Flashing brake lights (standard rear lights)**

Right the Green/white wire you attached to for the fog/brake light conversion, you need to cut that wire between where you tapped in and the bulb. It has to be between there or everything will flash.

Now attach the blue wire to the bulb side and the brown wire to the car side.

Now do this on the other side as well and you should be done.

Any problems drop me a Pm and I'll do my best to point you in the right direction.

Stav