



Rear Fog Light Conversion



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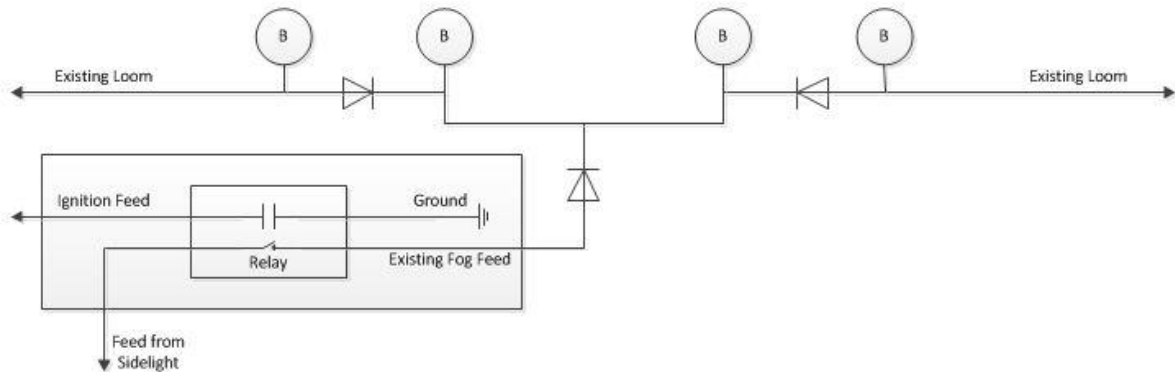
1 Introduction

If you want to remove that ugly rear fog light, be it integrated with the bumper or below it, then the chance is you'll want to convert your rear clusters. This guide assumes you have already removed various trim panels, i.e., stereo surround, kick plates, boot trim.

2 What You Will Need

- 1x N01AW Relay (SPDT) – £2.19 from Maplin
- 3x N25CC Diodes – £1.29 from Maplin
- 4x Insulated Female Spade Connectors
- 2x Male Bullet Connectors
- 2x Female Bullet Connectors
- Electrical Cable
- Crimping Tool
- Soldering Iron
- Heat Shrink

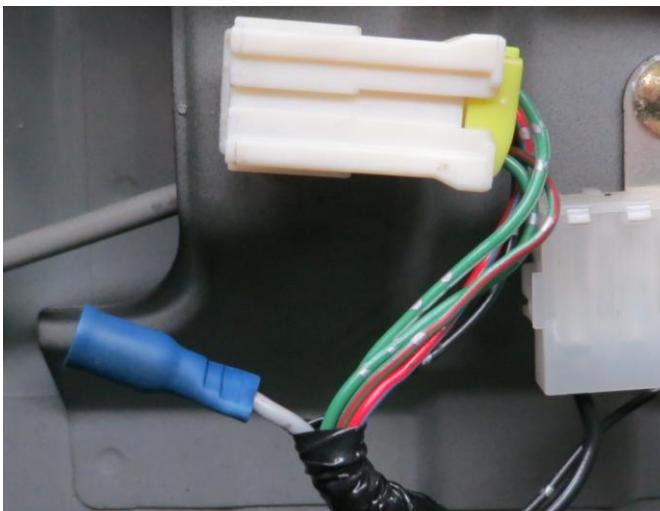
2.1 Wiring Diagram



3 Steps for Adding a Fog Light Feed

If you already have a fog light feed, skip to step 7.

1. Disconnect the battery for this project.
2. Find an ignition feed (a nice chunky one, such as the 12v feed to the radio is ideal).
3. Splice into the ignition feed with a similar grade cable and connect it to pin 30 of the relay using a spade connector.
[Make sure you solder and heat shrink the spliced connection.](#)
4. Use a cable similar in grade to the 12v feed, and ground the relay using pin 85.
5. Splice into the side light feed and connect it to pin 86 of the relay using a spade connector.
[You only want the rear fog lights coming on when the lighting circuit is active.](#)
[Make sure you solder and heat shrink the spliced connection.](#)
6. Use a grade of cable similar to the tail lights and connect it to pin 87 of the relay using a spade connector of the relay using a spade connector.
[This is the feed for your fog lights.](#)
7. Connect your first diode to this cable. Connect enough cable to the other side of the diode to reach the rear of the car.
[This diode stops the 12v feed back to the switch when the tail/brake lights are used as normal.](#)
8. Add a pair of similar graded cables to the feed from the diode and run to the existing sockets.
9. Attach your female bullet connectors to each cable.
[Cable tie or use loom tape to affix the new cables to the existing loom.](#)



4 Steps for Modifying the Light Cluster

Working on the back of the cluster, we're only interested in the solid green cable coming out of the back of the inner tail light plug.

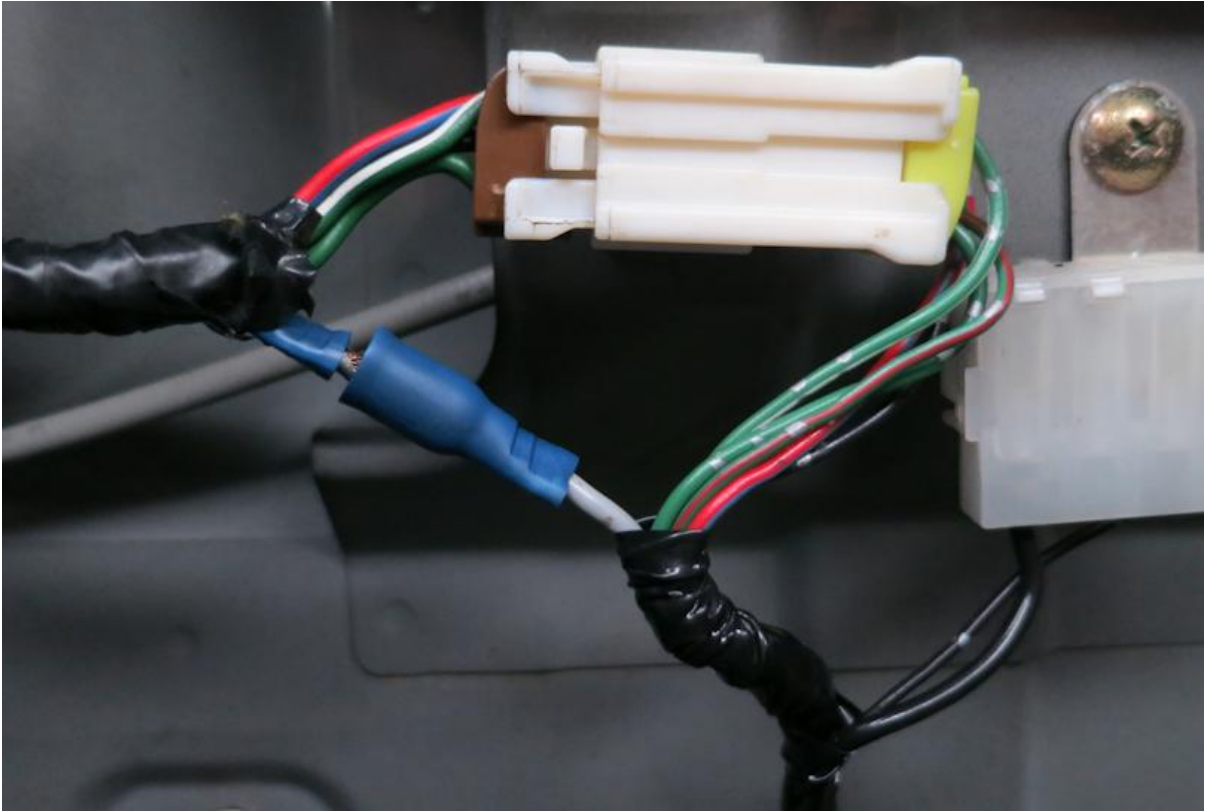
1. Cut this solid green cable and attach a diode:



Make sure the diode is round the right way!

2. Reattach the other half of the green cable to the other side of the diode in both clusters.
3. Attach a new length of cable to side of the diodes marked in the diagram.
4. Run these cables through the grommet.
5. Attach the male bullets to these cables.

6. Bolt in clusters and connect the bullets:



7. Job done.



5 Testing Scenario's

1. Side lights on = 4 tail lights illuminated
2. Side lights on + brake lights = 4 tail lights + 4 brake lights illuminated
3. Side lights on + fogs = 4 tail lights + inner (fog) brake lights illuminated
4. Brake lights on = 4 brake lights illuminated
5. Brake lights on + fog lights = 2 brake lights + 2 inner (fog) brake lights illuminated