

## Fitting Leds Rings to Fog lamp Housing

### Tools Needed

Torx Screw Driver

Wire Cutters

Soldering Iron

Hot Glue Gun

Scotch-locks

Earthing Tags

13 mm Socket & Ratchet

Self Amalgamating Tape

Remove both headlights and the front grill for access

If you don't know how to remove the grill then you should not be doing this mod.

### Headlight Removal.



Remove the fog lamp surround by hooking a finger in the cut-out on the fog lamp surround and pull it off .



Remove the three torx screws holding the fog lamp in place, then disconnect the plug from the lamp.

There is an adjusting screw on the lamp, mark the threads with some paint you can just see the red paint on the image below.

Slacken this screw off (Philips screw) and then remove the torx screw holding the adjuster to the lamp body.

You can now pop out the fog lamp reflector unit and place somewhere safe.

Clean the inside of the housing and the lens of the fog lamp holder.

Then find the top of the lamp holder and hold the led light at an angle of 90 degrees to the holder, aligned with the two small slots in the housing next to the clip in positions that hold the reflector unit in and gently push it down in to the holder, it will be tight at first then the light holder get larger to the front of the lens , at this stage twist the led to the horizontal position and pull the led back towards you keeping it level as in the image below, then when your happy with the position glue in place with some runs of glue.

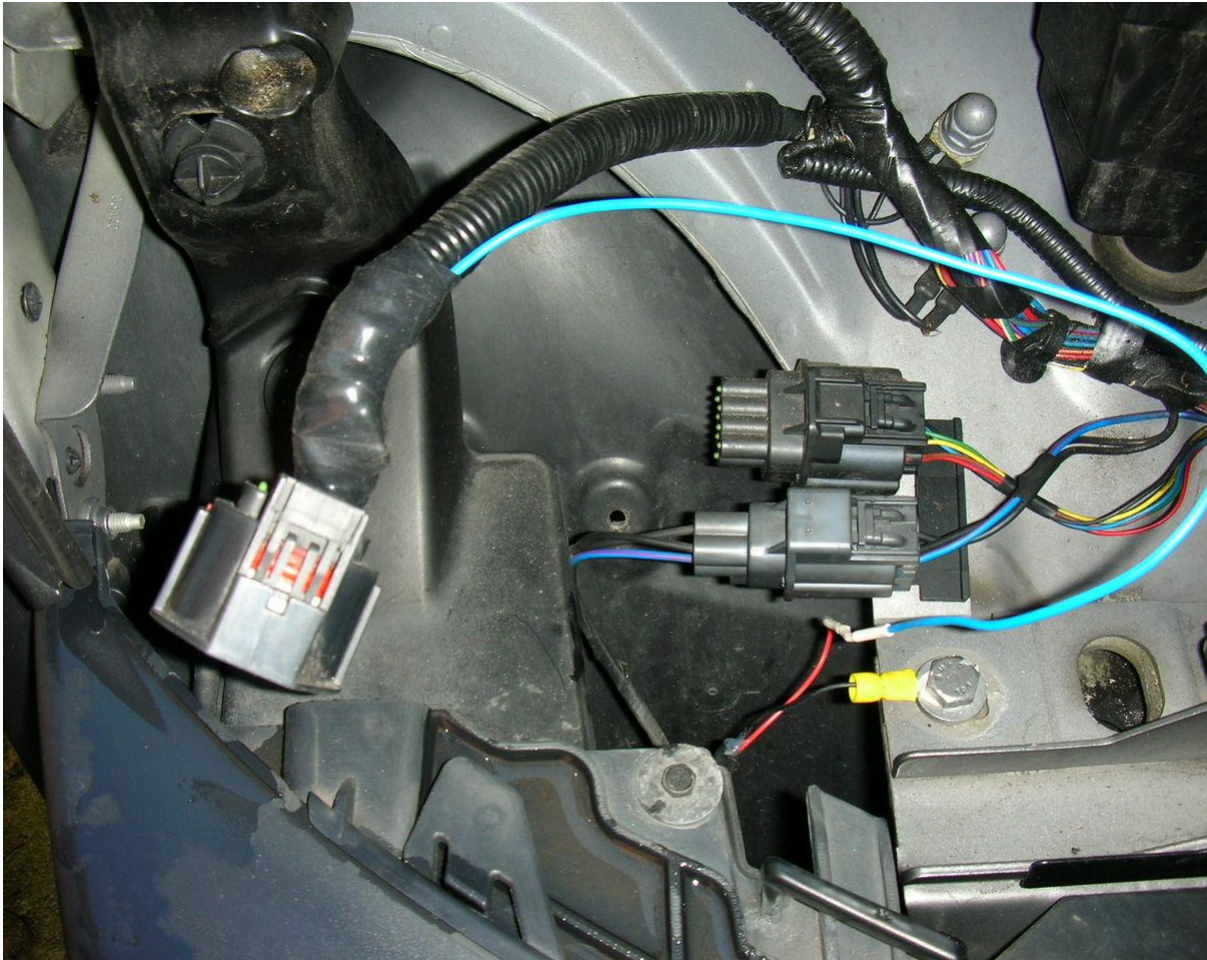


[Click image to enlarge](#)

Once the glue has dried drill a 3mm hole in the housing at the top for the wires to come through, pull the wires through and then seal the hole with your glue gun as below image



Now would be a good time to extend the red wire, I only found this out when I came to refit my headlights, because I tapped in to the main headlight connector, the loom was too tight to connect the headlight unit back up, so I needed to extend the red wire. The black wire is ok if you connect to the same earth position that I used in the picture below.



[Click image to enlarge](#)

Now once all the glue has dried re-assemble the fog lamp, I used a thin smear of silicone grease on the rubber seal on the reflector to ease it back in to place.

Attach the adjusting screw to the reflector with the torx screw then re-adjust the adjusting screw to the paint mark on the threads.

Now refit the fog lamp and thread the wires in to the back of the headlamp bay, fit the three torx screws holding the fog light in place, and replace the fog light trim.

Fit a earthing tag to the black wire and earth to the bolt in the picture.



Looking at the main connector above The passenger side wire is red with a black stripe through it and the drivers side was Red with an orange stripe.. but the wires are in the same position in the plugs so just do the passenger side one then connect the drivers side to the same pin but a different colour wire.

If you connect the earth up then try the red wire from the light on the top row of pins in the main head light connector then turn your side lights on, it should be the middle pin that is the side light power feed, you will see the LED light up so no need for a DVM or tester.

Wrap all the scotch lock connectors with self amalgamating tape or adhesive tape to seal from the weather.

Reconnect the headlight units and the grill and all is done.



**All Finished and looking good.**

**Good Luck Flack**