

### E38 Demon Eye Install (2001 740i w/ xenon)

#### Headlight Removal:

Unplug the 2 Harnesses going to the assembly (power and vertical aim)

Remove weather-stripping around top of headlight.

Remove lower trim strip simply by carefully prying off with fingers.

Mark with a marker, grease crayon, etc the nuts circled in blue, so that they can be placed back in the same position later. Then loosen, but do not remove them.

Remove 2 phillips screws circled in red. (see pic below)



Remove side marker:

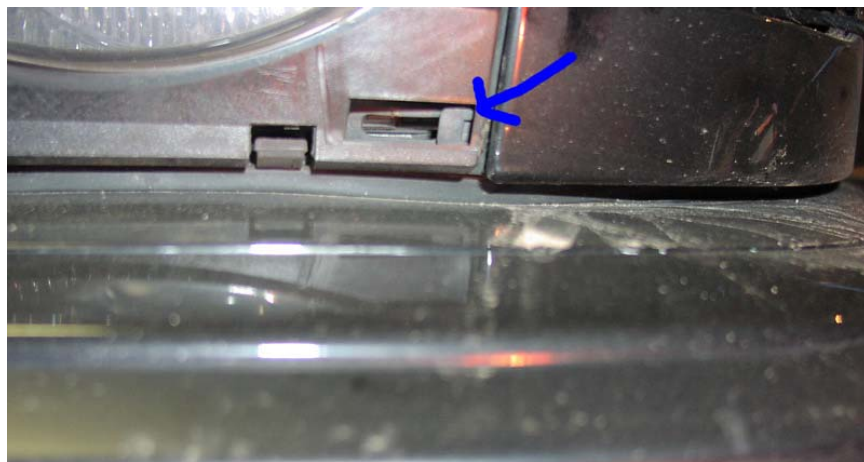
Remove plug (circled in blue in pic below) by pulling upward (no twist)

Insert Phillips screwdriver and loosen until side marker can be removed.





Unattach the clip on the bottom (below the side marker) by inserting a flathead screwdriver, and pushing toward the center of the car.



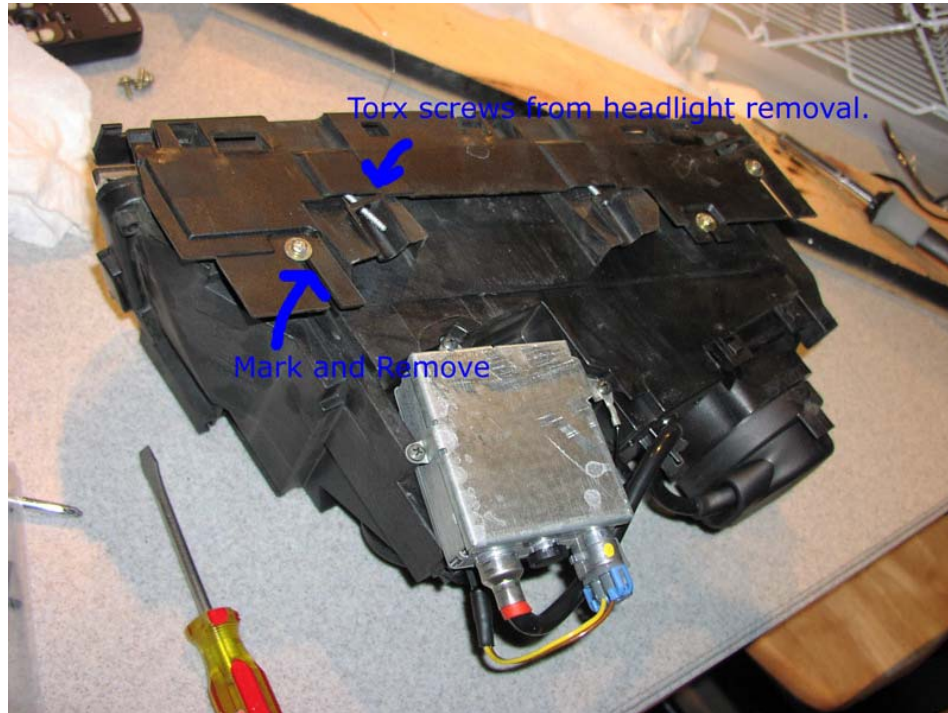
Finally, loosen the (2) Torx 15 Screws on the bottom of the assembly. Note where the two arrows point below. There is one screw in each opening, and can be seen with a flashlight. Loosen so that the headlight can be removed, but do not completely unscrew them from the assembly.



Carefully pull the assembly straight out.

### \*\*\* Headlight Modification \*\*\*

On the bottom of the headlight, remove the plastic part that supports the lower trim piece/headlight by removing the 3 Torx 15 screws. Mark before removal, so that you can reattach the piece to the original location without headlight alignment issues.



Remove the 8 clips that hold on the front shield, then pull off the front shield (it should not need to be pried off).

Now, remove the black bezel that holds the chrome surrounds and plastic lenses. First, remove the small Phillips screw, then pull off the bezel. The clips that hold it on are tight, so be careful when it comes loose that you do not drop the entire assembly.



Set aside the rest of the assembly where it will not get dirty or broken.

Glue the LEDs into the rings.

**DO NOT USE SUPER GLUE. USE SILICON OR EPOXY ONLY!**



Repeat Until your halos look like these! Let them sit and dry for about 30 minutes. **If you try to place them in the headlamp assembly too soon, it may cause fogging on the inside of the glass assembly!**

Then take a 1/2- 5/8 piece of shrink wrap or black electric tape, and cover over some of the end of the ring with it. Because of the LED placement, this prevents the LED from being viewed directly, and makes it a little cleaner.

Now for mounting. Place the rings into the chrome surround up against the lens, and note where the black shrink wrap hits. Mark the ring if necessary. Then remove the lens from the back (simple clip), and remove the chrome surround. (Not really clipped in, but flexible and they come out thru the front of the bezel.) Now, drill 2 holes (about 5/16") where the rings end comes in contact. Imagine these holes are placed so that the ring will continue thru chrome surround. Once the holes are satisfactory, place the chrome surround into the black bezel, mark where the holes are, remove the chrome surround, and drill the appropriate holes. (note: do not do this all in one step! If you try to drill both at the same time it is a recipe for disaster)

- For the low beam, on the outer edge (toward the side of the car) the assembly does not have enough overhang for the method described. Therefore, drill a smaller hole, a little farther toward the center, just enough to run the wires thru.



When the drilling is done, reinstall the chrome surround and lens. Route the wires thru the holes, and then place the rings over the lenses. Try to make some of the large black shrinkwrap go into the hole for a more uniform look. When all is satisfactory, use a small dab of glue at the top of each ring, over the wire holes, and 2 dabs toward the bottom to secure the ring and let cure. (I used 5 minute epoxy; if you go around the edge of the ring and do not touch the bottom, nor directly on top, the glue cannot be seen.

**DO NOT USE SUPER GLUE. USE SILICON OR EPOXY ONLY!**

Allow time to dry so fogging does not occur!



Wire the LED's with the resistor per the schematic below. Each ring has 2 white wires. After all the wires have been fed through the whole in the headlamp, you can then connect the 2 wires from each ring together. Make sure that you connect only white wires of each ring and not 2 white wires from different rings. Then connect one end of the resistor to the connected white wires. Soldering would ensure the best connection. You should have 4 resistors for 4 rings. The other end of the resistor goes to the power in the corner lamp(Gray wire in corner assembly). The black wires from each headlamp assembly can be connected together and connected to ground(Brown wire in corner assembly). Cover any exposed connections with electrical tape. Now reassemble the light assembly. Route the wires over the cone reflectors. Remove the high beam bulb cover to pull the wires thru, and route thru the grommet on the rear.

Each half of the circuit below represents one Halo Ring.  
This circuit will complete one headlight assembly.

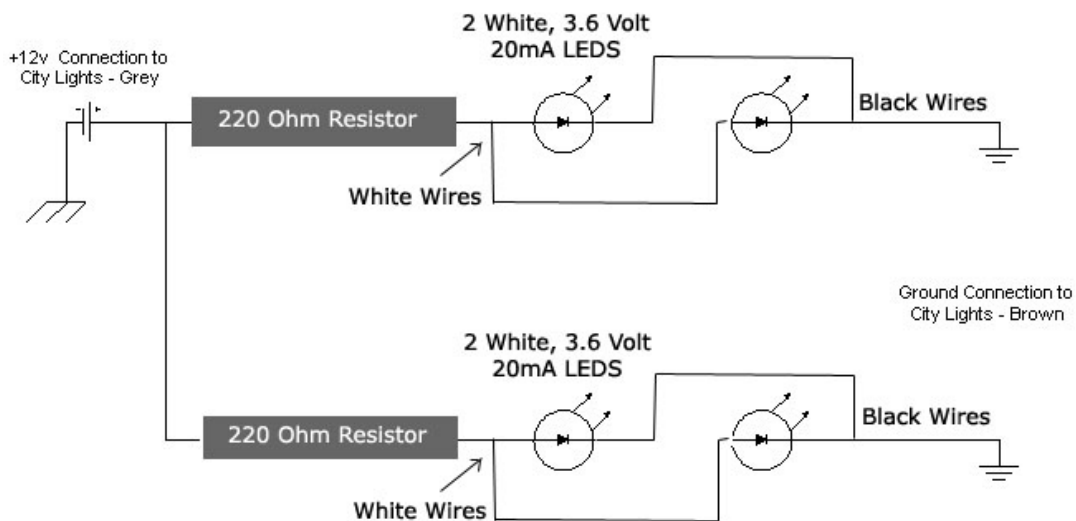


Fig.1  
Wiring Diagram for one Angel Eyes  
Headlamp Assy.





