



BAVARIAN AUTOSPORT

Headlight Adjuster Repair Kit Installation Instructions

SAFETY WARNING: Be sure the ignition switch and light switch are in the OFF position before removing or attaching any electrical connectors.

NOTE: This repair procedure requires heating the glue bead that affixes the outer lens assembly to the main headlight housing. This heating can be done by heating the complete unit in an oven that does not handle food products, a heat gun (using caution to avoid overheating the plastic) or with a high-powered hair dryer. Read these instructions before beginning. If you are not comfortable with the procedures, do not continue.

5 Series

01 thru 03

PART NUMBER:

E39 HLA AE

PROCEDURE:

1. Open the engine hood.
2. Remove the harness plugs from the high beam bulbs and the low beam bulbs, (for models with HID low beams, remove the plug from the low beam ballast instead of the bulb) remove the parking light bulb plug. For HID vehicles, also remove the auto-aiming plug.
3. Remove the 4 - 8mm hex head screws that secure the headlight assembly to the vehicle. 2 are at the top of the assembly and 2 are just below the high and low beam bulbs at the rear. Pull the assembly toward the front and remove it. Repeat for the other side.
4. Remove the painted lower trim piece by releasing the 2 snaps at the bottom and 1 snap at the high beam side.
5. Unclip and remove the upper rubber sealing lip.
6. Remove the two Torx-head screws located behind the turn signal lens area.
7. Remove the HID ballast box (if used) and all the bulbs (high beam, low beam, turn and angel eye). Be careful not to touch the glass portions of the bulbs.
8. Prepare for the next steps by having a couple wide flat-blade screwdrivers, a couple 1" to 2" flat chisels or scrapers and a razor knife (x-acto) at hand. These will be used to pry the lens assembly from the headlight housing.
9. Pre-heat oven to 180°. Alternatively, you can carefully use a heat gun or high power hair dryer.
10. Insert the headlight assembly into the oven and "bake" it for about 5 minutes.
11. Remove the headlight from the oven. Note that there are six retainer clips that secure the lens to tabs on the housing. Use the screwdrivers to pry the lens clips over the housing tabs. Do a couple at a time. Now, use the chisel/putty knife to pry the lens from the housing (by inserting the tool between the lens and housing and twisting the tool in the area between the tab clips that are being separated by the screwdrivers. Carefully proceed around the lens, working to keep the clips released from the tabs and to separate the lens from the housing. As you get the lens to pull away from the housing, use a razor knife to slice the glue between the lens and the housing.
12. Remove the black plastic Angel Eye bezel assembly. This is secured by the same glue, in four spots. If the glue is too cool and will not release, pop the light back in the oven for a couple of minutes to soften it.
13. At the rear side of the headlight housing, remove the three screws securing the height adjusting motor assembly. There is a rod with a plastic ball tip on the adjuster, that protrudes into a corresponding socket in



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the internal headlight adjuster assembly. Push in and slide the adjuster rod toward the high beam to disengage the ball from the internal adjuster assembly, and remove the motor assembly. Alternatively, you may be able to use a long screwdriver from the front of the assembly and push the rod and ball from the internal adjuster plate.

14. Pull the outer edges of the high and low beam rubber bulb boots free from the edge circumference of the securing rings at the rear of the housing. Gently pull the complete bulb/reflector assembly from the black plastic rear housing. Work the rubber boots through the holes as they pull free and you can remove the ground wire connecting the bulb/reflector assembly to the rear housing. If only one adjuster is broken, you must turn the adjuster on the non-broken adjuster until it is fully unscrewed from the plastic adjuster before you can fully separate the bulb/reflector unit from the rear housing.
15. You will now see the broken adjuster(s). Remove any broken parts from the housing. Remove any parts of the adjusters that may still be on the adjuster screws.
16. Lubricate the threads of the adjuster screws and the hole in the new adjusters with a plastic glide lube, lithium grease or liquid dish soap. Thread the new adjusters all the way into the screws. Stop and remove the adjuster and re-lubricate if it gets too stiff. Do not use the white plastic 90° adjuster points to do this step. Use the 10mm hex heads directly on the ends of the adjuster screws. Repeat this a few times in order to fully cut the threads into the adjusters and assure smooth, friction free operation.
17. Remove any broken ball ends (from the broken adjusters) from the sockets in the bulb/reflector assembly. Use the supplied tool (the short aluminum tube with one internally tapered end) to push the broken ball pieces from the socket, by inserting the tool from the front side of the socket and pushing the ball out to the rear.
18. Install the bulb/reflector assembly into the rear housing, making sure that the adjuster ball ends are properly inserted into the sockets in the bulb/reflector assembly. Be sure to attach the ground wire. Affix the rubber boots to the securing rings on the rear housing. Install the height adjuster motor unit, assuring that the ball is properly installed into the socket in the housing adjuster.
19. Install the lens unit. With the lens installed, repeat the oven heating procedure to soften the adhesive. Once heated, securely seat the lens unit to the housing.
20. Install all parts that were removed (bulbs, HID box, corner screws, etc.).
21. Install the painted trim strip and upper seal lip to the headlight.
22. Install the headlight unit into the vehicle and perform final adjustments.

