



BAVARIAN AUTOSPORT

Universal Angel Eyes Kit Installation Instructions

IMPORTANT NOTE: Before beginning installation, read these instructions completely and make particular note of the Caution below.

CAUTION: The glass light tubes inside the Angel Eye rings are very fragile; twisting or flexing the rings will break the light tubes. Be very careful when handling the Angel Eye rings during assembly.

PRE-INSTALLATION NOTE: The installation of the Angel Eye rings requires that the rings be glued to the headlight lens. We recommend clear silicone for this. Depending on your headlight design (stand-alone sealed beam or ellipsoid lights vs. lenses under an outer lens cover), you may or may not have to disassemble your headlight assemblies. If you have an application with outer lens covers, be sure you have the appropriate information on disassembling the headlight units. If the Angel Eye kit is being installed on a stand-alone sealed beam or ellipsoid lens (such as a 3 series 84 thru 91), we highly recommend that you install headlight protectors to protect the Angel Eye rings. Bavarian Autosport carries covers for both sealed beam and ellipsoid types of lenses.

Application:

PART NUMBER:

A/E KIT

INITIAL ASSEMBLY:

- All 5 3/4" round headlights except:
- 3 series 92 thru 98 with North American (plastic cover) headlights
 - 3 series 92 thru 98 with Inpro Angel Eye headlights (use part #E36 A/E UPGRADE)
 - 3 series 99 on (use part #E46 A/E KIT)

For BMWs with stand-alone sealed beam or ellipsoid lenses (including Euro sealed beam replacement lamps such as Hella) use steps 1a-2a, then proceed to Final Assembly. (For headlights with 5 3/4" lenses housed within an outer lens cover, skip to steps 1b-4b, then proceed to Final Assembly.)

NOTE: Keep in mind that you may need to remove the headlights trim rings at a later time – position the Angel Eye rings so as not to interfere with the removal of the trim rings.

CAUTION: Angel Eye light tubes are fragile – handle with care; do not twist, flex or drop.

- 1a. The Angel Eye rings will be glued to the front of the headlight lenses. We recommend that the rings be glued at three points – at the two ends of the ring and at 6 o'clock. You may apply more adhesive, but the rings will be difficult to remove if the light ever needs to be replaced. Figure out how you will route the wires up and over the headlights before you glue the rings in place. Once you have the final installation position figured out, glue the rings to the lenses and use some tape to GENTLY adhere the rings until the adhesive sets. Be very careful when removing the tape – do not flex the rings.
- 2a. Route the wires to the area behind the headlights.

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- 1b. Remove the headlight assembly from the vehicle using the appropriate repair manual as a guideline.
- 2b. Using the appropriate repair manual, remove the front outer lens from the headlight assembly.
- 3b. Determine the routing of the Angel Eye ring wires from the front of the round lens, through the headlight housing, to a point where the wires can be connected to the ballast unit wires. Keep in mind where you will be mounting the ballast unit. Common ballast mounting points can range from inside the headlight housing (if there is room) to the outside of the housing, to the BMW's structure.
- 4b. The Angel Eye rings will be glued to the front of the headlight lenses. We recommend that the rings be glued at three points – at the two ends of the ring and at 6 o'clock. You may apply more adhesive, but the rings will be difficult to remove if the light ever needs to be replaced. Once you have the final installation position figured out, glue the rings to the lenses and use some tape the GENTLY adhere the rings until the adhesive sets. Be very careful when removing the tape – do not flex the rings.



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FINAL ASSEMBLY:

1. Assemble the supplied black plastic connector housings onto the two wires from each of the Angel Eye rings by inserting the wire's connecting pin into the connector housing. Notice that there is a very small barb on one side of the pin. The barb should be facing up when the connector housing is positioned so that the snap clip is facing up (see figure 1). The pin can then be inserted into the connector housing. Give a gentle tug on the wire to verify that the barb is secured in the connector housing. (see figure 2).
2. Determine a mounting position for the ballast units, keeping in mind that the wires from both the high and low beam Angel Eye rings must plug into the white harness wires from the ballast. Mount the ballast using the supplied double sided tape (after thoroughly cleaning the mounting surface). Plug the Angel Eye connectors, for both the high and low beams, into the connector harnesses on the ballast units. Secure the loose wiring with zip-ties.
3. If installing Angel Eyes in headlights with outer lens covers, assemble the headlight outer lens and rear covers (if they were removed). Prepare the headlight assembly for installation into the vehicle.
4. Open up the Angel Eye wiring harness. Determine the routing of the harness before actually mounting it. The yellow power wire goes to an "always on" full 12 volt source, preferably a 12 volt junction block. The black wire goes to ground. The left and right ballast leads go to the ballast boxes. The red/white wire is the "turn on" wire. This can be run from a parking light wire, an ignition source or from an auxiliary switch.
 - If you would like the Angel Eyes to turn on when the parking lights are on, then the red/white wire should be crimped to either the left or right parking light power wire.
 - If you would like the Angel Eyes to turn on whenever the car is running, then locate an ignition power source to jumper the red/white wire from (for example, the green wire on the coil of older BMWs – positive side of the coil).
 - If you would like to control the Angel Eyes from a separate switch, run the red/white wire to the location of your powered auxiliary switch.
5. Once you have determined your wiring points and harness routing, route the harness into position and secure it with wire ties. Mount the headlights into the vehicle if they were previously removed. Connect the two wires each, at the left and right ballast boxes. Complete the relay mounting and the power, ground and turn-on wiring.
6. If your installation is on sealed beams or ellipsoids, you should now install the covers. You will have to cut a slot in the covers to allow the wires to pass through. If you wish you can silicone the opening after installation.
7. Test the operation of the Angel Eye lights.



Figure 1

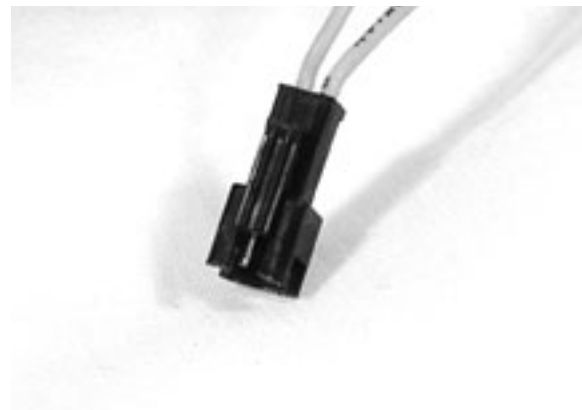


Figure 2