



European Headlight Conversion Kit Installation Instructions

SAFETY WARNING: Be sure the ignition switch is in the **OFF** position before removing or attaching any electrical connectors.

NOTE: The European headlight system incorporates a "city light" in the high beam housing. This is a low wattage light which is used in a similar fashion to the way we use parking lights in this country. (European BMW models do not have parking lights, instead they use these city lights.) The non-angel eye kits can be wired to make the city lights functional when the parking lights are on, if you wish. If you elect to make the city lights functional, they will be on at all times whenever the high or low beams or parking lights are on. Step #10 contains instruction procedures pertaining to city light operation. If you do not wish to make the city lights functional, ignore this step. "Angel eye" kits require that the city lights be made functional.

3 Series

92 thru 98

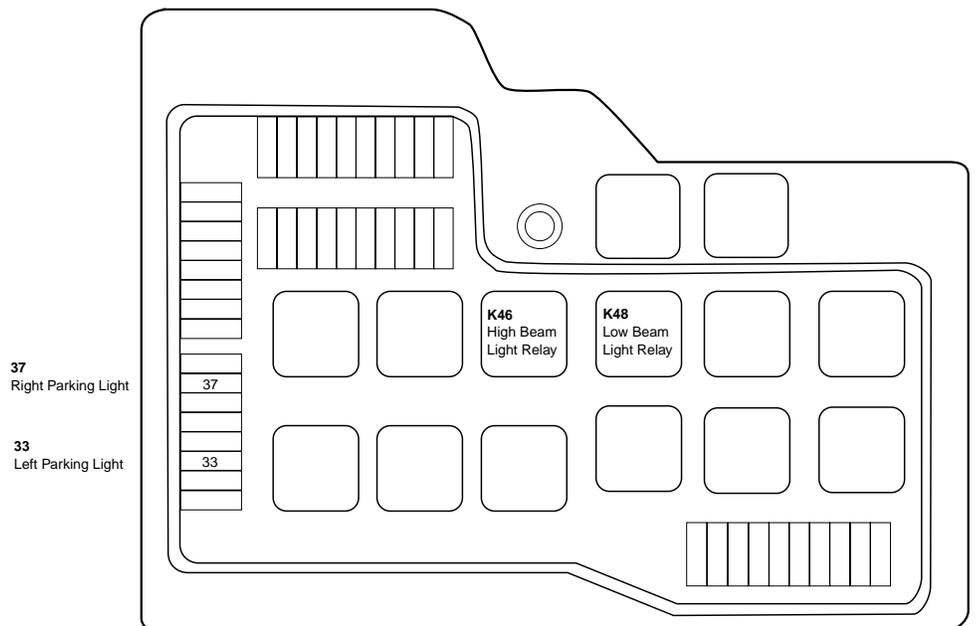
PART NUMBERS:

E36 H/L CONV & E36 H/L CONV AE

PROCEDURE:

1. (See figure A) Open the engine hood and remove the low beam and high beam headlight relays #K46 and #K48 from the fuse/relay box. Remove the left and right parking light fuses #33 and #37.
2. Locate the headlight high and low beam bulbs on the rear side of the left and right headlight assemblies. Grasp the rear of the bulb with the wiring connector attached, and rotate it counter-clockwise about 1/4 turn then pull it out of the housing. Remove all four headlight bulbs in this manner.

"Figure A"



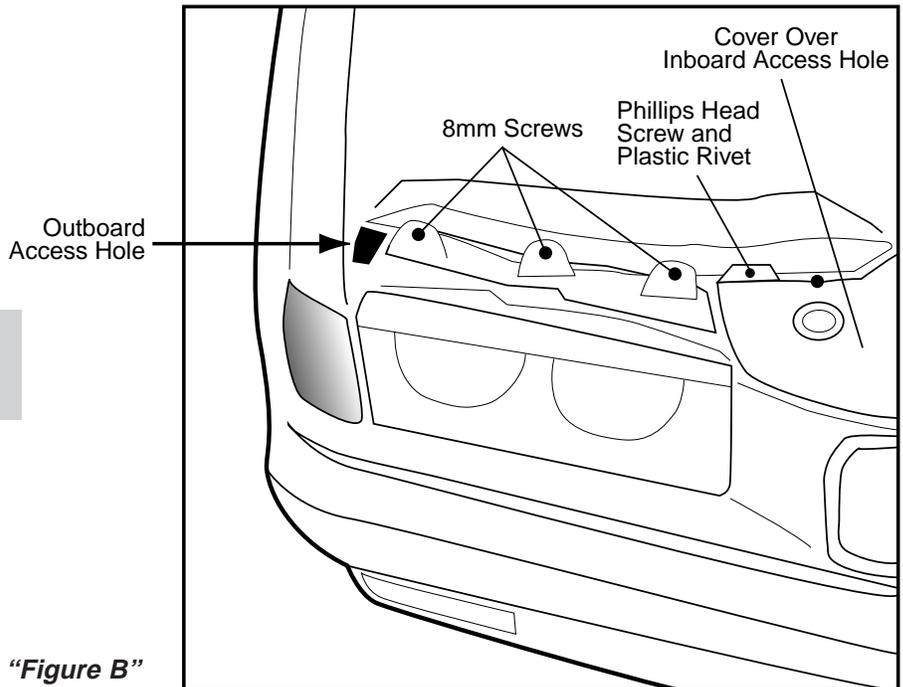
Fuse Box for 3 series 92-98

3. (See figure B) Remove parking light by inserting a screwdriver down through the outboard access hole at the front outer corner next to the headlight assembly. Pry the retaining clip toward the outside of the car while pushing the light out from behind. Do this for both left and right sides.
4. (See figure B) Remove the headlight assembly by removing the (3) 8mm hex head screws along the upper edge of the headlight.

NOTE: Be careful not to turn the plastic adjusters which the 8mm mounting screws are threaded into.

Next, look at the new headlight assembly to determine the location of the left and right lower mounting points. For access to the inboard mount, remove the phillips head screw retaining the plastic rivet at the end of the plastic cover between the grill and the radiator support, then pull out the rivet. You can now bend the corner of the cover back to access the lower inboard headlight mount screw. Use an 8mm socket, 6" extension and ratchet to remove the inboard and out board mount screws by inserting the socket and extension down through the access holes, from above. Pull the headlight assembly forward and out. Do this for both left and right sides.

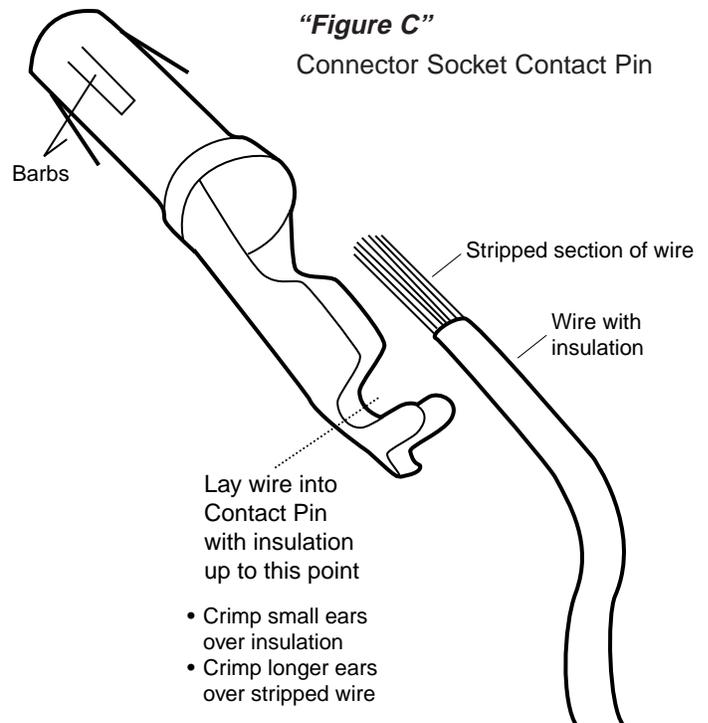
"Figure B"



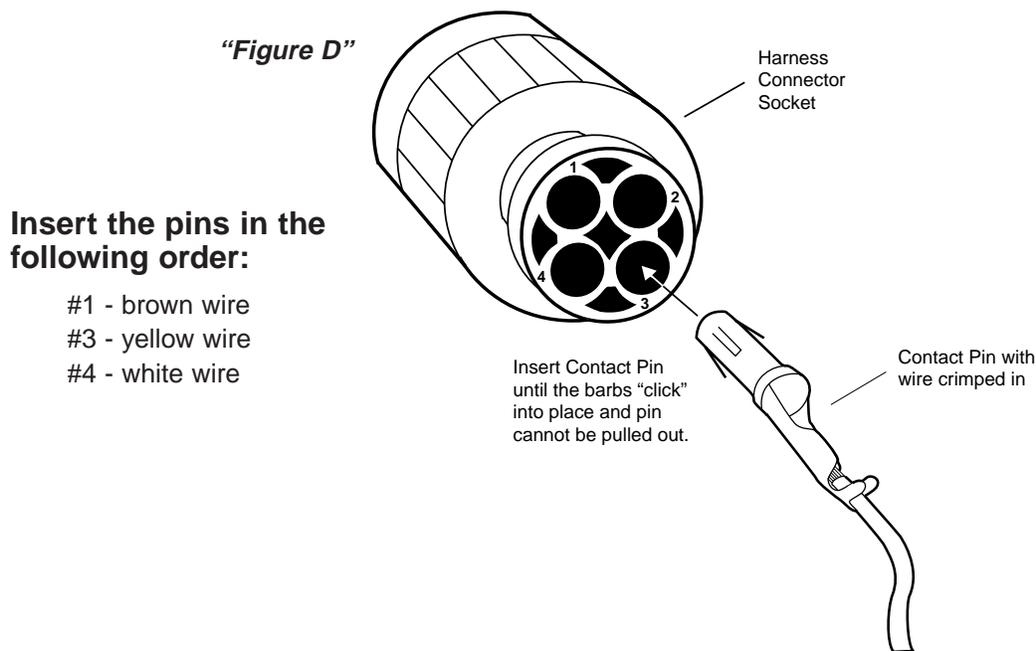
5. Cut all four headlight bulb harness connectors from the headlight wiring harness (leave a couple of inches of wire on each connector in case you ever decide to wire them back in for any reason).
6. Strip approximately 1/4" of insulation from both the yellow and the brown low beam wires and the white high beam wire. Do this for both left and right sides.
7. (See figure C) Locate 6 of the connector socket contact pins included in the kit. Crimp one contact pin onto the end of each of the stripped wires.

"Figure C"

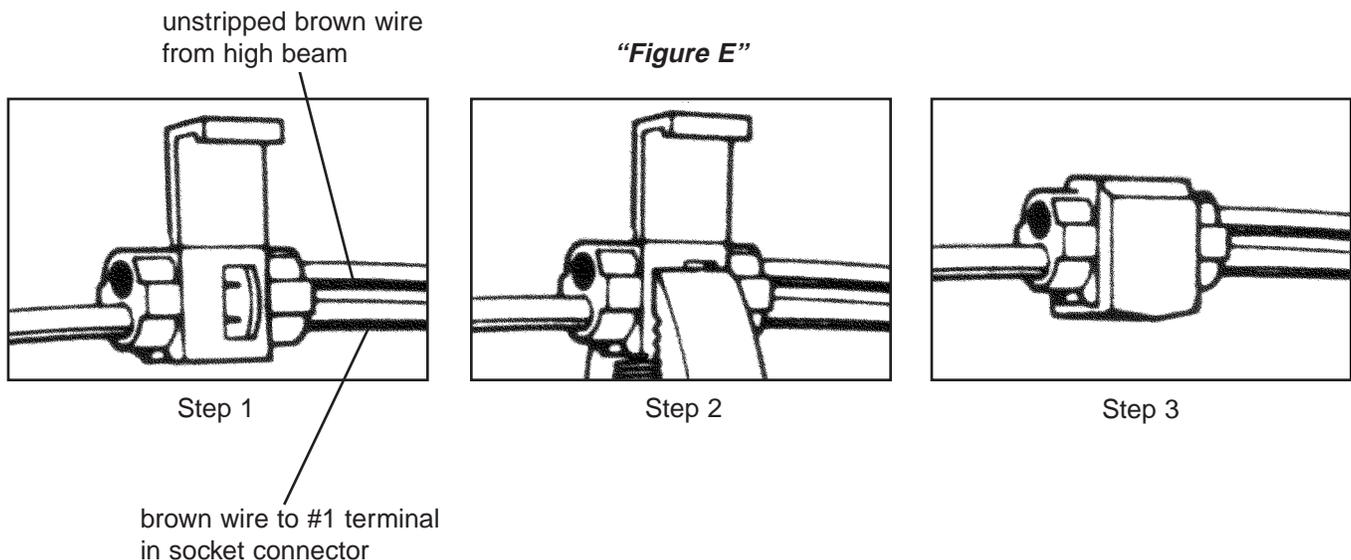
Connector Socket Contact Pin



8. (See figure D) Locate the 2 harness connector sockets included in the kit. Notice that the four holes for the contact pins in the socket are numbered (strong light and a magnifying glass may help you to identify the numbers). Insert the crimped connector pins into the connector socket from the rear, or small end, of the socket. The pins have small barbs which will snap into place when fully inserted and will prevent the pins from being pulled back out. Perform this step for both left and right sides.



9. (See figure E) Locate 2 of the wire tap connectors included in the kit. Clip the open side of the connector over the brown wire which you have inserted into #1 on the socket connector. Insert the unstripped brown wire (from the high beam) into the open hole in the wire tap connector. If the wire does not insert more than halfway into the connector, insert it from the other side. Use a pair of pliers to squeeze the metal contact down into the connector and over the wires. Fold the hinged cover over and snap it closed. Do this for both left and right sides.



10. **City lights and "angel eyes" only** - this step is to connect the city lights; skip this step if you do not wish to have the city lights in operation. Perform steps (a) through (c) for both left and right sides. "Angel eye" kits require city lights to be functional.
 - a) Locate 2 of the wire tap connectors and the length of 18-gauge hook-up wire included in the kit. Cut the wire in half.
 - b) Clip the open side of the wire tap connector over the gray wire going to the park/turn signal connector harness. Insert the unstripped end of one of the cut pieces of hook-up wire into the open hole in the wire tap connector. If the wire does not insert more than halfway into the connector, insert it from the other side. Use a pair of pliers to squeeze the metal contact down into the connector and over the wires. Fold the hinged cover over and snap it closed.
 - c) (See *figure D*) Crimp a connector socket contact pin on to the other end of the hook-up wire and insert it into #2 on the connector socket.
 - d) Do this for both left and right sides.
11. Install the four H-1, 55 watt, bulbs (included with the kit) into the high and low headlight assemblies.
12. Reinstall the new headlight assembly in the reverse procedure of step #4. Be careful not to tighten the 8mm screws to the point where the adjusters start to turn. Then, reinstall the parking light by pushing it in from the front until you hear the clip snap twice and the light is fully seated.
13. Reinstall the parking light socket & bulb into each parking light. Plug the new headlight harness connector socket into the receptacle on the back of the headlight assembly. Twist the lock ring clockwise to lock the connector on. Do this for both left and right sides.
14. Reinstall the relays and fuses removed in step #1.
15. Test to assure that all lights are working properly.
16. Have the headlights adjusted at a qualified shop. Many alignment shops can provide this service.

