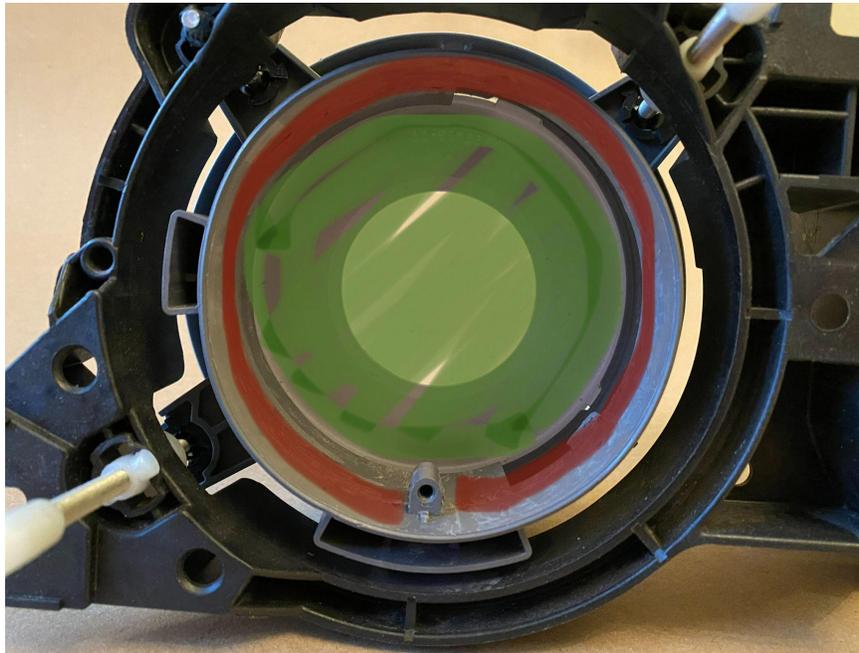


### Installation for US Ellipsoid projector retrofit adapter.

1. Remove the factory projector by removing the three security screws found on the outside edge of the low beam assembly. Save these screws as you will need to reuse one.
2. With the projector removed, you will now want to do something to seal the bottom of the housing (towards the lens) to prevent excess dust and debris from dirtying up the glass. I taped a circular piece of paper I cut out for one headlight, and the other I used strips of tape. Both options work and both options are annoying. It helps if you have little baby hands like mine. Seen below highlighted in **GREEN**.
3. You need to remove all of the ridges and screw mounts **EXCEPT** for the bottom screw mount. Seen below in **RED**. Please see below for how the end result should look and note the remaining screw mount. **DO NOT** remove the barrier you put in at the bottom of the bucket yet.



4. Test fit the adapter to make sure you removed enough material. The metal plate is a snug fit and may require you to rotate it back and forth as you slide it in (that's what she said). It's tight on purpose so there are minimal chances of it sitting crooked in the factory bucket. Once you confirm you removed enough material, vacuum out all of your dust and remove the barrier you put in. I also vacuumed it out once the tape/paper was removed and blew it out with compressed air.
5. Now that you have a clean and prepped factory bucket, fit the adapter again. Line up the bottom screw hole with the mount on the bucket and screw in one of the OEM screws you saved from the beginning. Screw it in until it is snug, there's no reason to crank them down.

6. Use the provided one-of-a-kind, extremely custom, hole marker tool to mark the hole on the top of the factory bucket. The tool has a small notch that fits against the arrow that is on the lip of the adapter (marked with white paint). While holding the tool in place, apply some light pressure on the top of the bucket to compress the foam O-ring and give you an accurate location of where that hole should be. Once you're comfortable with the bucket's fitment, mark the hole using the tool and remove the adapter.



7. Before drilling the hole, use a light hole punch or extra small drill bit to give you a starting point to keep the larger drill bit from walking. Now use a 1/8" drill bit and finish the hole. If you've done it right, this should line up perfectly with the threaded insert on the side of the adapter. Test fit the adapter one more time to confirm you drilled the hole in the right place. Once you've confirmed this, remove the adapter, again.



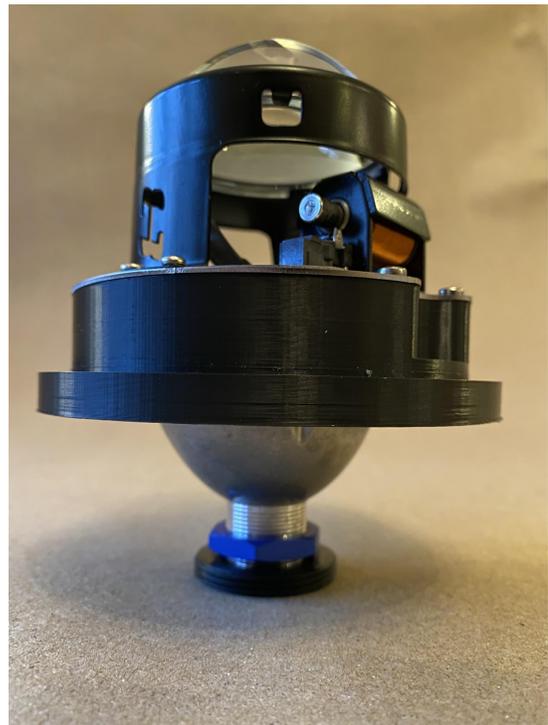
8. Time to assemble the projector on the adapter. You will see six screws on the projector assembly – three on each side. Remove these. But be gentle. They are cheap hardware. I had one snap and one stripped the threads.



9. With the screws removed you should have three pieces. The glass projector, a plate with the bi-xenon function, and the bulb housing/reflector. The order of the assembly goes as follows starting at the bottom:

1. Bulb holder.
2. Adapter plate
3. Bi-xenon motor plate.
4. Projector lens.

Stack these on top of each other and grab the six medium length screws provided in the kit. Screw these in with care as to not wreck any threads on the reflector bucket. Snug them up, but don't go overboard. Once the screws are tightened, take the 6 screws that came with the projector, scold them for being cheap, and throw them away.



10. The last thing you will want to do before installing the completed assembly is seal the bi-xenon switch connector. If your goal is to have these completely sealed, this would be an opening through the back of the projector. These come this way since they are designed to be mounted inside a larger headlight assembly. Unfortunately that's not how the e30 headlights are designed, so this opening needs to be sealed.

11. Now you can install the assembled projector into the factory headlight bucket. Slide the whole thing in, line up the screws. I find it's easiest to start the bottom screw, start the top screw, and then snug them both up.

12. That's it. You're done! Now you get to move on to the more fun part of installing the remaining HID equipment.

**Please review the installation guide for installing the Bulb Box on the back of the projector before installing the headlight back in the car.**

Thanks for your purchase and I hope you enjoy them!

Gabe Gilbertson

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