

## Bmw e30 Projector “Bulb Box” Installation.

The purpose of this box is to seal the back of the projector where the bulb mounts. Typically these assemblies would be located in a larger headlight housing, but since the e30 headlights are not designed that way, we need this box to seal the bulb.

These were designed for the wires to exit out the bottom or the side of the Bulb Box depending on how you orientate it. The intent is that it would offer a cleaner finished installation when looking at the engine bay and it would keep the clearance behind the projector as tight as possible.

You'll notice the texture on what would be the outside of the lid when installed. It's important to note that these are printed with ABS. ABS is excellent for heat resistance and strength. But it's downside is that as it cools it is prone to shrinking and warping. To combat this, a mixture of ABS dissolved in acetone is applied to the print bed which acts as an adhesive. While it's been extremely effective at eliminating warping, it can leave a texture as it's removed from the bed.

1. Remove the three small screws that hold the threaded retainer on the back of the projector and remove the retainer.
2. Spin the blue collar nut all the way down.
3. Use the silicone washer that came with the bulb kit and slide that over the threaded shaft of the projector housing so it's sitting on top of the blue collar nut.
4. Slide on the Bulb Box. The Bulb Box should have an o-ring seated inside a groove on the internal mating surface which will seal against the bottom of the threaded retainer you removed in the first step.
5. Reinstall the threaded retainer and tighten the three screws that secures it and snug up the blue collar nut. This will secure the Bulb Box against the threaded retainer.



6. To install the HID bulb, first cut the two wires with spade terminals on the headlight harness that feed through the rubber grommet. You don't need these.



7. Slide the plastic retainer nut that came with the kit over the bulb and feed the bulb harness connectors through the exit hold on the bulb bucket and insert the grommet into that hole. For installing the bulb, it is easier if you pull all the wire into the bucket for now.



8. Slide the bulb into the projector and orientate the U-shaped retainer into the bulb opening and then thread on the retainer collar and tighten it down. I know it's a tight fit inside the box to do all of this, but I wanted to maintain a balance of keeping the Bulb Box as small as necessary while also giving you enough room to install the bulb.
9. Use the provided stainless steel screws to install the lid on the Bulb Box. If you want to take an extra measure of precaution, you could run a very small bead of sealant along the lip of the box before installing the lid.

