

How To: Retrofit the Morimoto Mini D2S bi-xenon Projectors



THE RETROFIT SOURCE
INNOVATIVE HEADLIGHT UPGRADES

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Donor Vehicle: 2008 Toyota Tacoma

Time Required: 3 hours start to finish (estimated)

Parts Used:

Bixenon Morimoto Mini D2S Stage III Kit from www.TheRetrofitSource.com

- Morimoto Mini D2S bi-xenon projectors with clear lenses
- Morimoto 3Five Digital Ballasts (w/ stainless brackets, hardware, and 12V +/- test lead)
- Morimoto 3Five 5000K D2S bulbs
- Gatling Gun Shrouds with 100mm CCFL lighting kit
- H4 Bi-xenon Relay wire harness



Note: more detailed instructions are available for each of the steps involved in this process. Please contact us if needed.

Step 1:

Remove all external hardware from the backside of your headlight assemblies before heating them to open. This includes any screws around the outer perimeter, turn signal bulbs, rubber housing caps, rubber moisture exhaust boots, etc. Put everything aside so you dont lose it.



Step 2:

Pre-heat your oven to 265* F and then place the headlight housing in the middle rack, as far away from the heating element as possible. Set a timer for 7 minutes and (with protective hardware) remove them when its time. Place the headlight on a clean work surface, and with a flat blade screw driver, pry the housing apart. Work your way around the perimeter, making sure to pry the clips back.

After the front lens is pulled off the housing, if any parts of the housing were deformed from prying, push them back into place while still warm. This will help with resealing later.

Step 3:

Remove the metal bulb cap inside the headlight reflector bucket. It's often either clipped on, or screwed on underneath the opening for the bulb.

After this, you can paint the reflector if you want. Make sure to clean it thoroughly with rubbing alcohol to remove any contaminants, then prime and paint. High heat paint is not required for the reflector.



Step 4:

Now it's time to mount the projector. Remove all hardware from backside of the projector except for the big silicone crush washer (white)

Note that in this retrofit, we used the Gatling Gun shrouds. Because they don't use our "centric rings" to attach to the projector, we pre-glued them on before installing into the housing. For shrouds that snap-on using the centric rings, you can usually install those afterward.



We also used the 100mm CCFL kit inside the Gatling Gun shroud to achieve this look:



Step 5:

Insert threaded shaft through the pre-existing H4 bulb hole in the back of your reflector bucket.

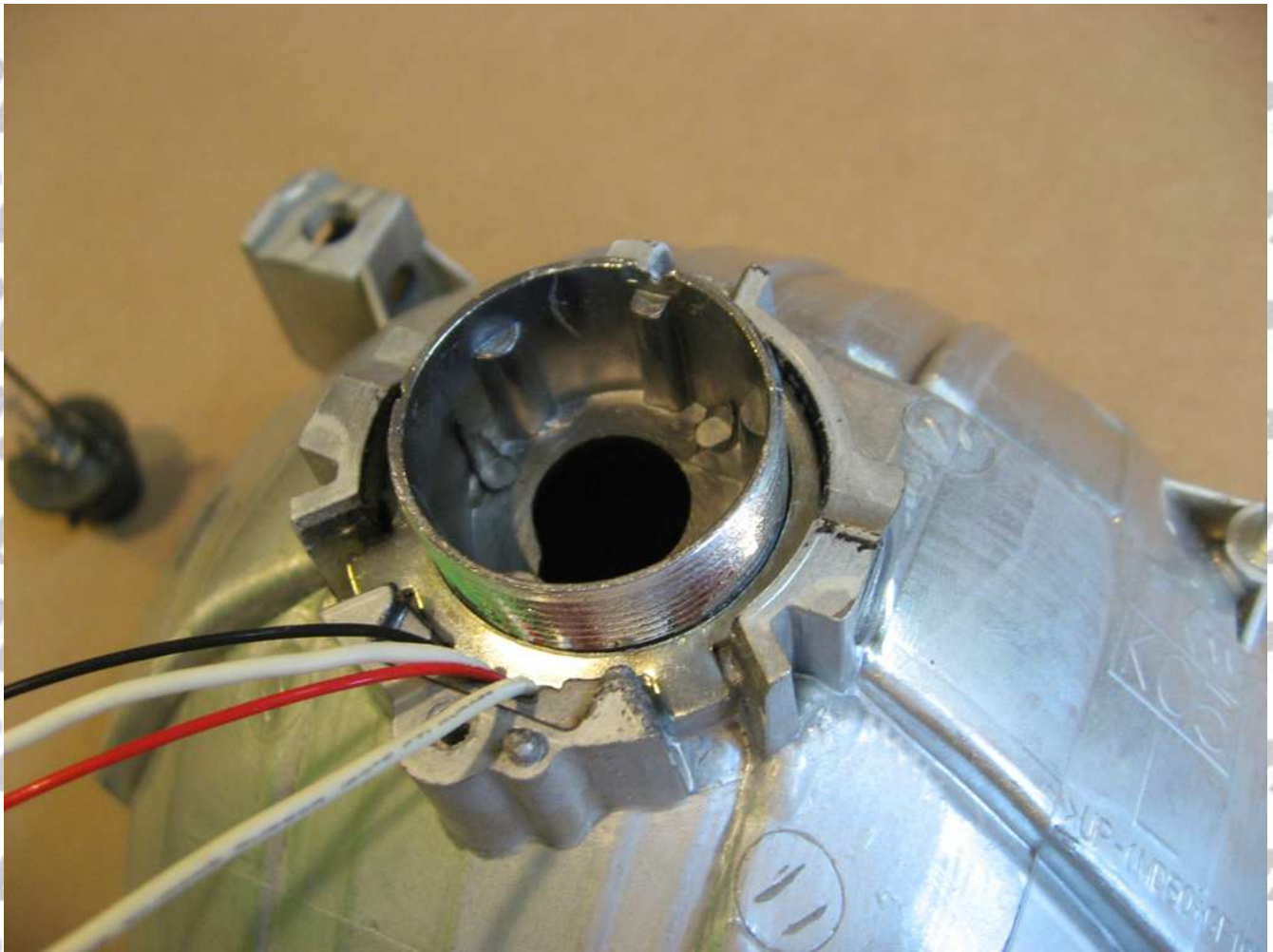


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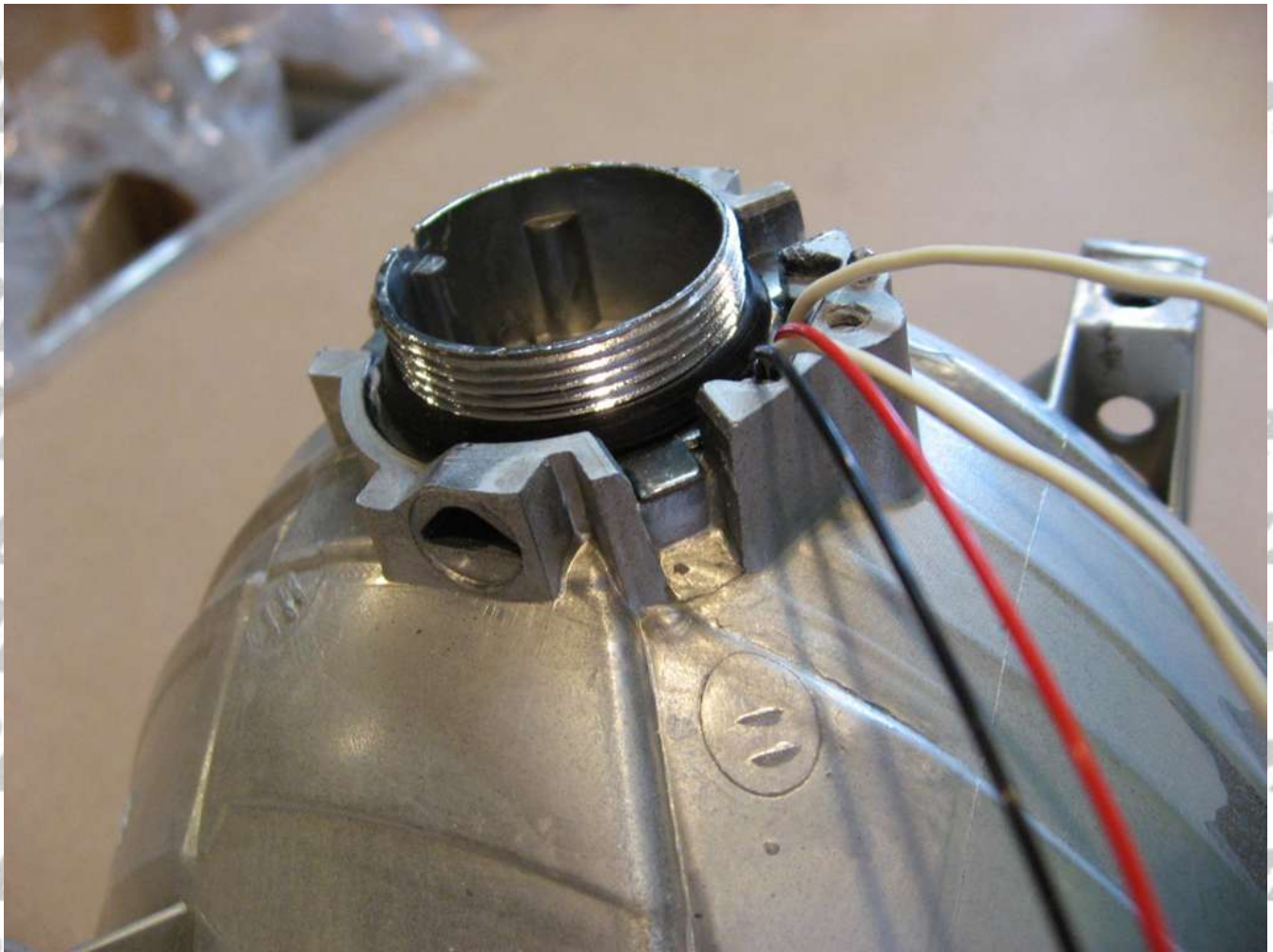


Step 6:

Align the projector rotationally by adding the H4/9003 adapter plate on the backside of the threads. The notch on the inside should slide down the channel for it on the projector. Run the wires for the solenoid (and CCFL's in this case) in the small cavity off to one side that remained after removing the metal halogen bulb shield.



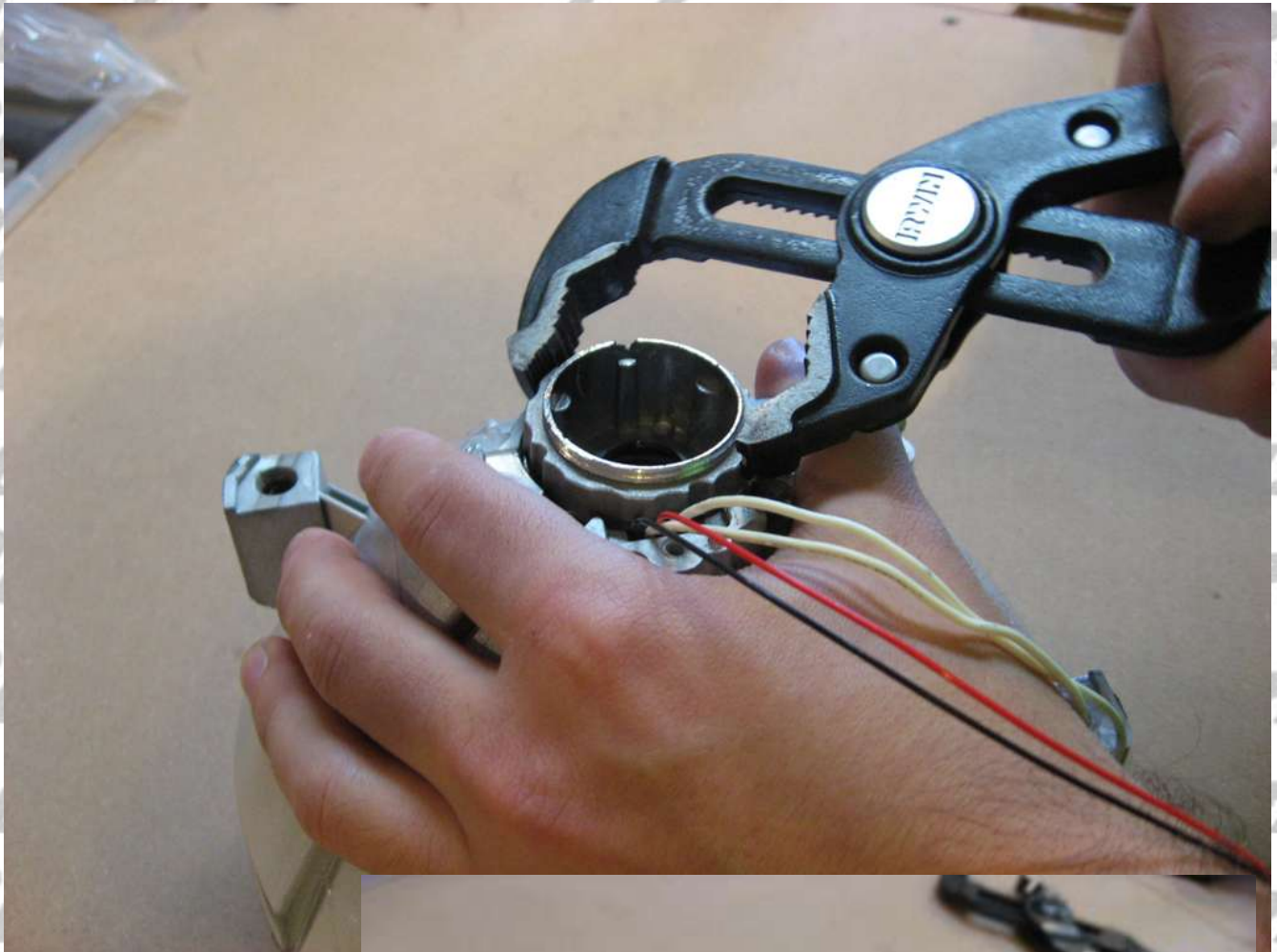
Step 7:
Slide the black rubber o-ring over the threads. Ensure it does not get twisted during the process.



Step 8:

Tighten down the whole assembly by threading on and torquing the threaded lock-ring. Be careful not to over-tighten or it may break. You only need to have 2-3 rows of threads left to work with after this

goes on.



Step 9:

Clean your D2S bulbs thoroughly and then insert into the back of the projector. The notches will only allow it to go in one way. Put the metal split ring washer over the back, as shown.



Step 10:
Add the black o-ring over top the split metal ring. The angled side should face down.



Step 11: Lock the bulb in with the end cap. This only needs to be hand-tight to the couple leftover threads. The projector is now mounted and aligned in your headlight.



Step 12:

Re-assemble the headlight in reverse order by reinstalling the reflector bucket into the housing. Before installing the front lens cover, test everything to make sure the solenoid is moving the shield between low and high beam freely, the CCFL ring is working (if applicable) etc.

Rough fit the front lens cover back onto the rear half of the housing. Pre-heat your oven back to 265°F and put the housing back in for another 7 minutes. When its time (again with your protective hand ware) take the headlight out of the oven, and clamp the two halves together to re-seal the front lens to the rear half. With some hand pliers, go around the perimeter of the housing, squeezing it together to ensure the clips go back in place. Apply some spring clamps around the edges. If there is any remaining gap after the lens is back on, you can use some clear silicone caulk to fill that, smoothed out with your finger for a perfect seal.

Mount back on your vehicle, find a safe place to mount the ballasts, run the wire harness, and enjoy!

For more helpful retrofitting documents, please visit:

<http://www.hidplanet.com/forums/forumdisplay.php?50-TRS-Product-Support>