



Keystone Lighting HID to LED retrofit bulb

Teardown

This is a teardown of a used Keystone HID to LED retrofit bulb. I believe that the driver is dead.

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TOOLS:

- [Phillips #2 Screwdriver](#) (1)
 - [Spudger](#) (1)
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Step 1 — Introduction



- This is a 400W replacement HID to LED retrofit bulb from Keystone Lighting. It doesn't work anymore and has been replaced, so why not tear it down?

Step 2 — Remove the light lens

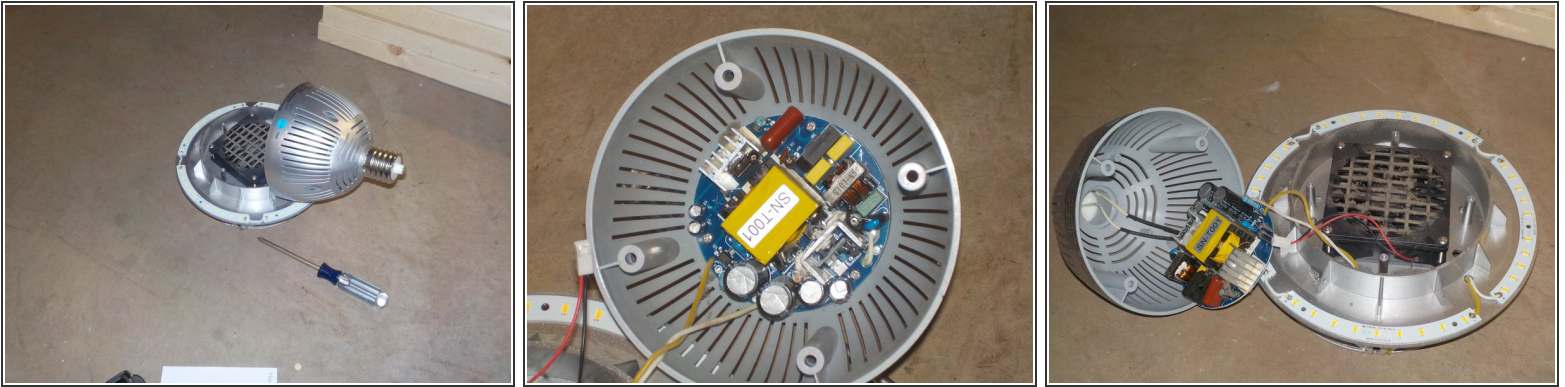


- Using a P2 Phillips screwdriver, you can remove the (easily visible) screws holding the clear lens on.

After all the screws have been removed, you can lift the light straight out of the lens.

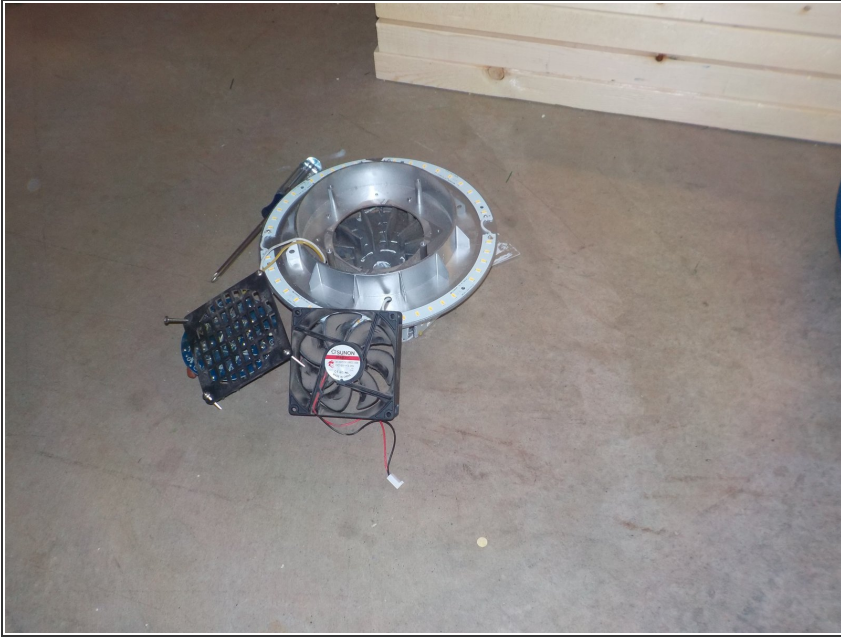
- i** I wasn't super careful about the diode matrix here because I was going to recycle it anyway, but if you're trying to repair one of these, I'd advise either to put a towel or something under the light or to wait on taking the lens cover off.

Step 3 — Opening the light+ driver access



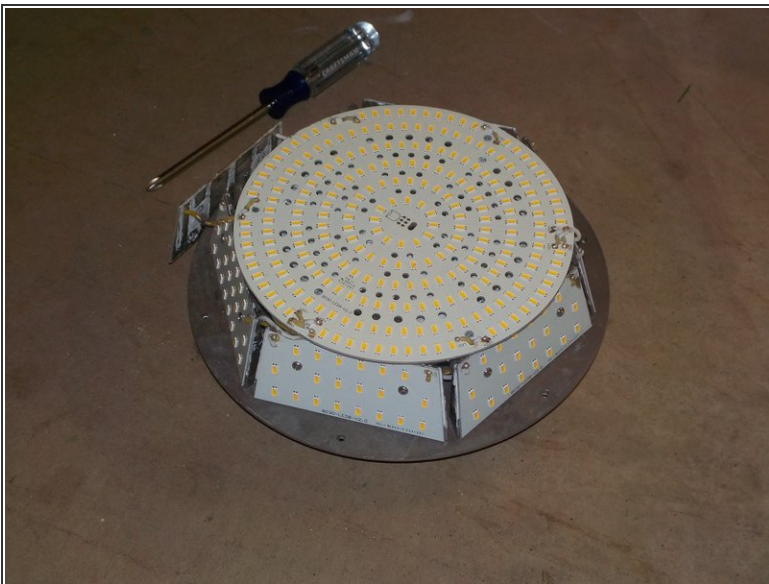
- Using the same P2 screwdriver as before, you can open up the light by removing the screws recessed within the plastic. Once those are removed, you can carefully lift the top off and hang the top off the side of the light.
- Next, you will want to unplug the fan from the driver board and remove all the screws from said driver. They are also P2.
- Finally, you can lift the driver away from the plastic and either cut or desolder the wires going to the socket.

Step 4 — Removing the fan



- You can now remove the 4 P2 screws holding the fan down and then remove it from the light.

Step 5 — Removing the LEDs



- All of the LED modules are held on with P2 phillips screws. You can unscrew these and lift the modules off the metal base.
- ⓘ Make sure to look out for thermal paste, because it goes everywhere.
- To remove both the driver and these LEDs, you will want to either desolder or cut the wires.

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Step 6 — Removing the (other) LEDs.



- If you followed the previous step, you should have already disconnected the wires, so just go ahead and use a spudger to unstick the last few LEDs.

Step 7 — Conclusion



- To reassemble your device, follow this guide in the reverse order, making sure to re-connect all disconnected wires.

