# GravityLight LED Replacement

This guide shows how to get to the GravityLight's LED and then replace it.

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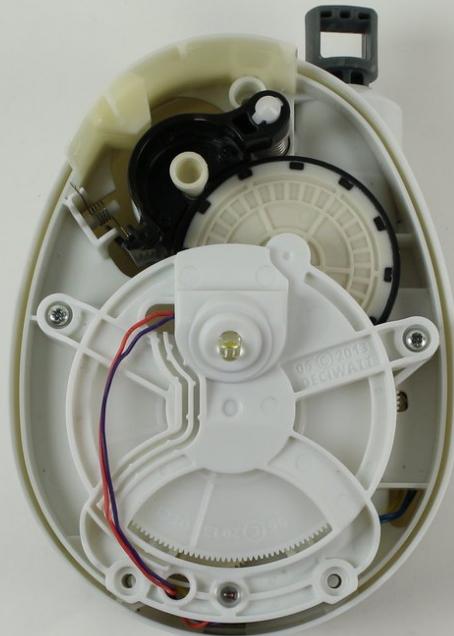
INTRODUCTION

If the white LED light will not turn on, then you will have to open up the device and replace the LED.

TOOLS:

- Phillips #00 Screwdriver (1)
- Solder (1)
- Tweezers (1)
- Flush Wire Cutter (1)
- Soldering Iron (1)

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Step 1 — Removing the Front Panel

- Flip the GravityLight on its back and place it on a sturdy surface.

- Unscrew the three 2cm Phillips #00 screws on the back of the GravityLight's body.

Step 2 — Opening the Device Housing

- ⚠ Some of the internal pieces may loosen or fall out during disassembly.

- Firmly grasp both parts of the GravityLight body and pull them apart.

Step 3 — Removing the Back Panel Screws
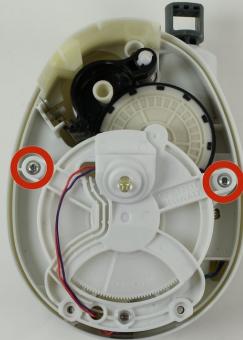
- Place the back panel, the larger of the two pieces, on a sturdy surface with its back down.

- Unscrew the two 2cm Phillips 00 screws on the inside of the back panel.

Step 4 — Removing the LED Housing
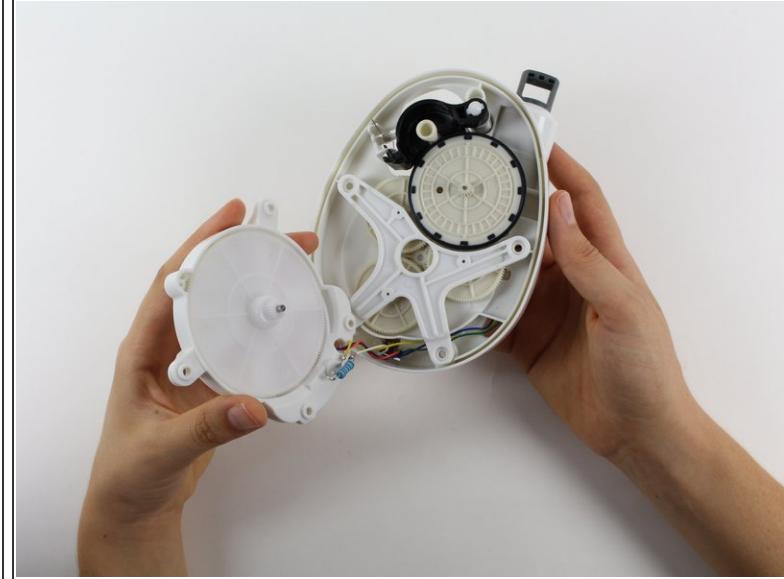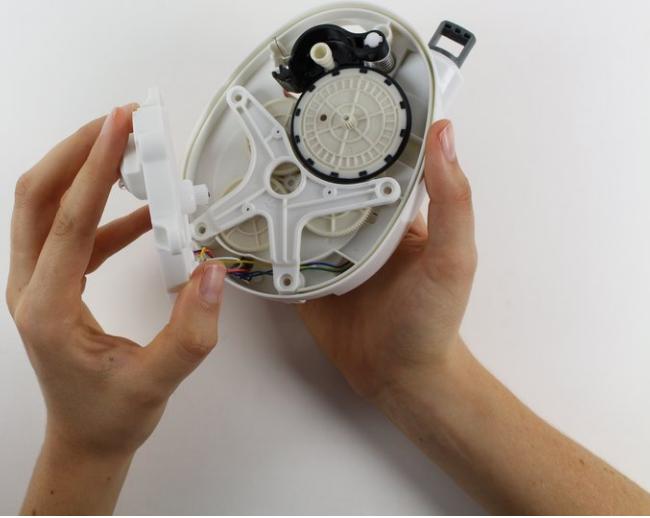
⚠ Hold the LED housing in your hand, but do not separate it too far otherwise you will tear the wires.

- Lift the LED housing away from the back panel.

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## Step 5 — Remove the White Gear from the LED Housing
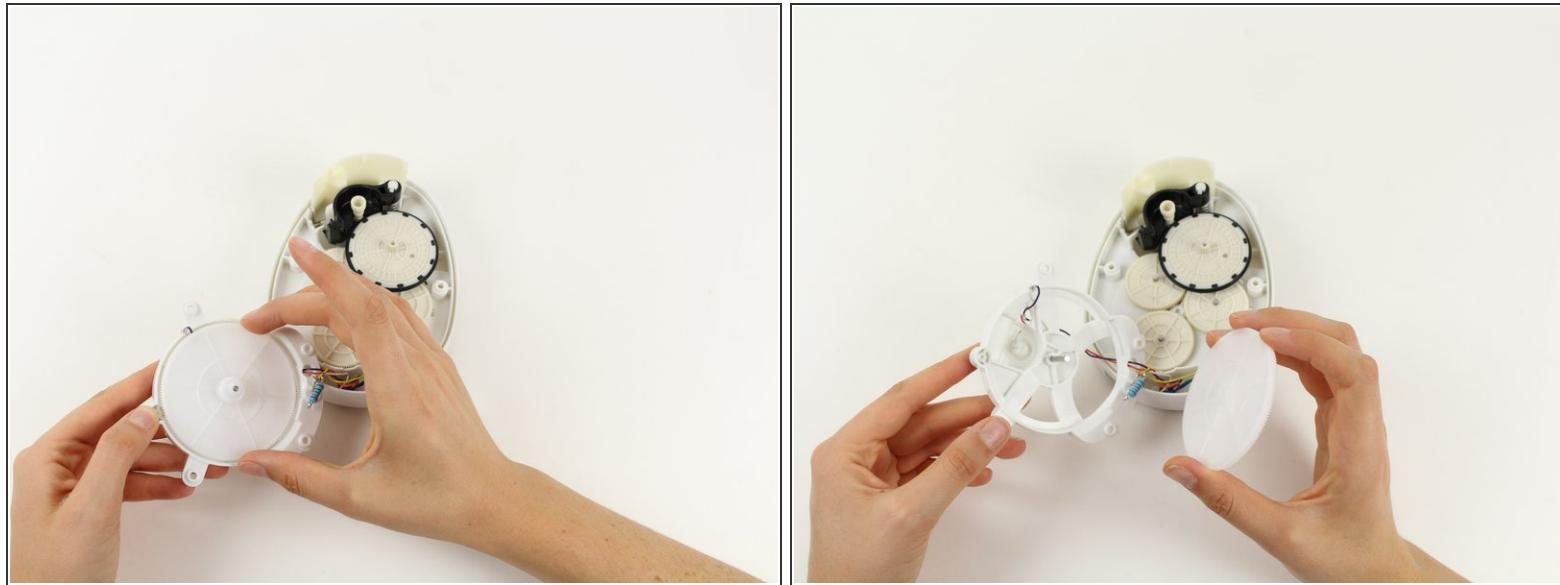
- Grab the outside of the large, white gear in the LED housing and pull the gear out of the housing.

## Step 6 — Position the LED Housing

- Set the LED housing flat on a sturdy surface so that the back of the LED and the wires are exposed.

Step 7 — Cut the Wires
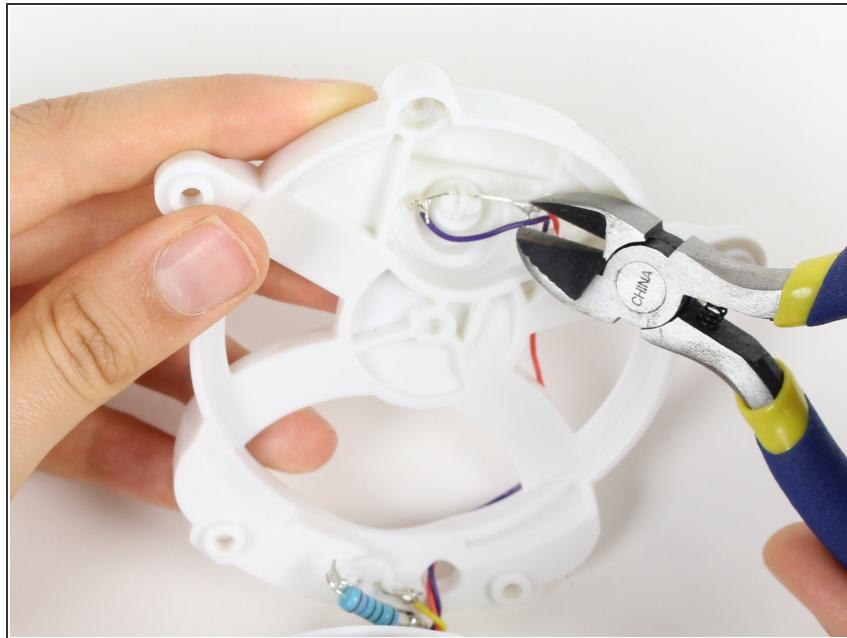
- Place the GravityLight's back panel aside.

- Use the Flush Wire Cutter to cut both the purple wire and the red wire that connect to the LED.

Step 8 — Bend the LED Leads
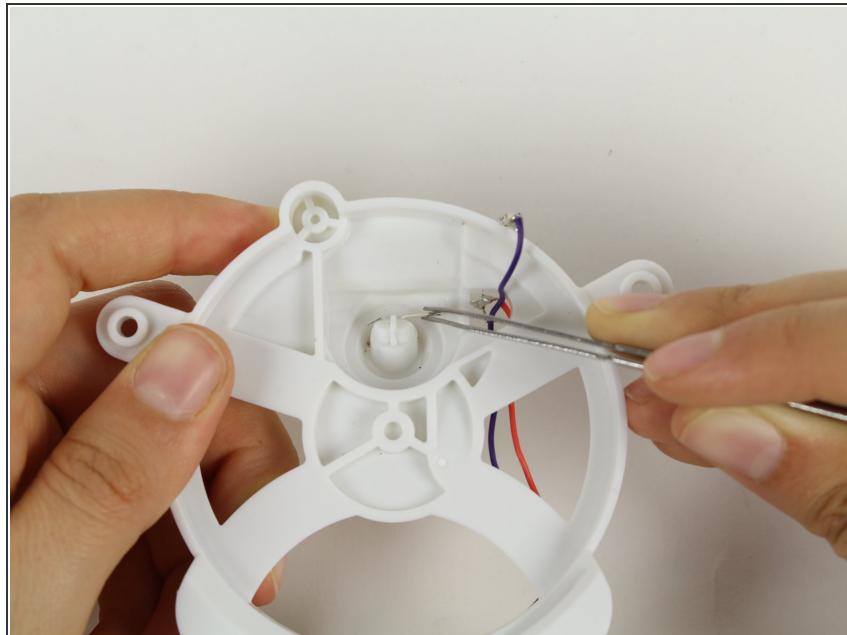
- Take tweezers and bend the leads (the silver wires coming out of the bulb) so that the leads are straight.

- ⓘ The straight leads will make the LED easier to take out.

Step 9 — Remove the LED
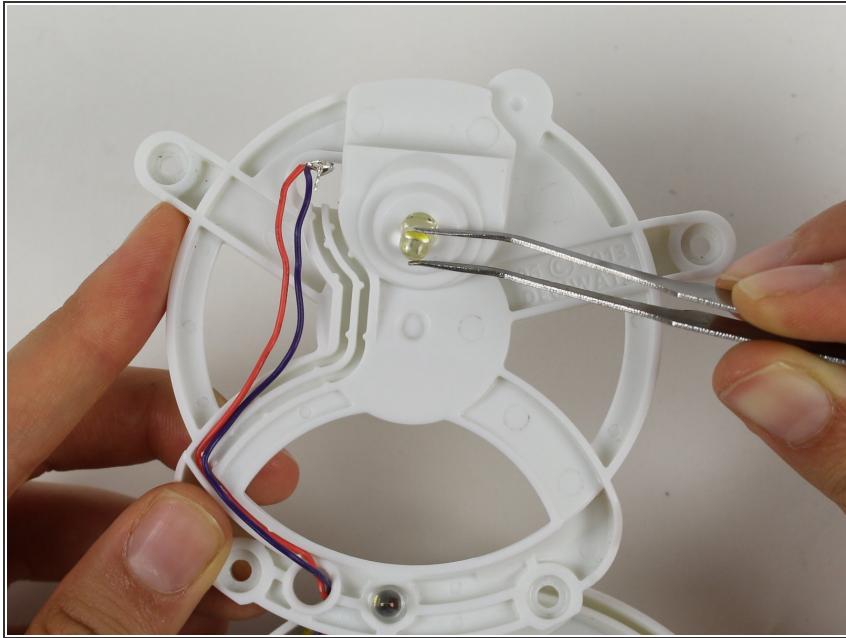
- Flip the LED housing over.

- Pull the LED out with tweezers.

Step 10 — Soldering the New LED
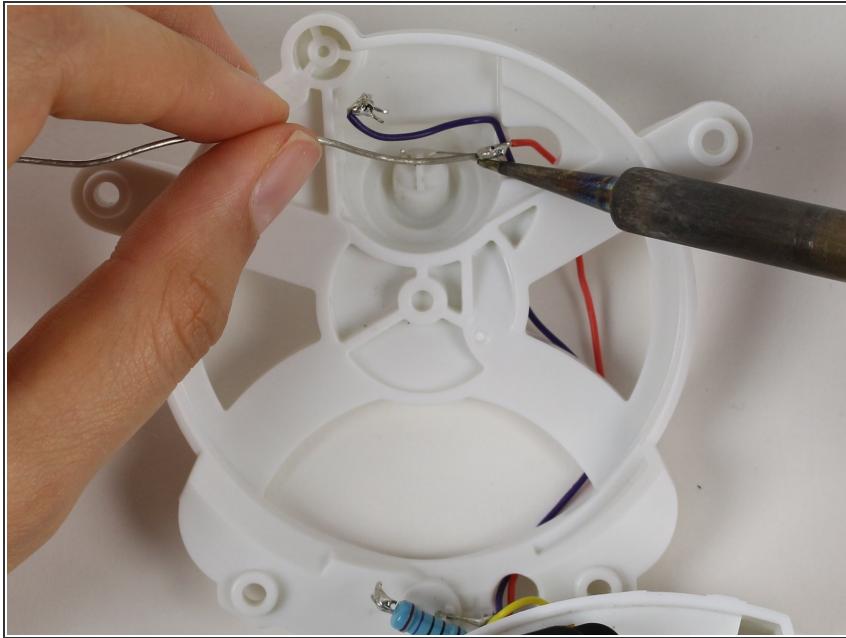
- 📌 For reassembly: Flip the LED housing back over.

- 📌 Put the new LED in its spot. Solder the red wire and the purple wire back onto the new leads.

- 📌 Make sure that you pair each wire to the correct lead. If the LED still does not light, switch the wires on the leads.

- 📌 For information on how to solder look here: How To Solder and Desolder Connections

To reassemble your device, follow these instructions in reverse order.

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