



GoPro Hero4 Silver Lens Replacement

In this guide we will be showing you how to...

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INTRODUCTION

In this guide we will be showing you how to replace the camera lens in your GoPro Hero4 Silver. The lens focuses the light before it reaches the camera sensor. Before you begin make sure the battery is removed from the device and that you have the necessary tools to preform this repair.

🔧 TOOLS:

[Tweezers](#) (1)
[Magnetic Project Mat](#) (1)
[Metal Spudger](#) (1)
[Phillips #000 Screwdriver](#) (1)
[iFixit Opening Tool](#) (1)

⚙️ PARTS:

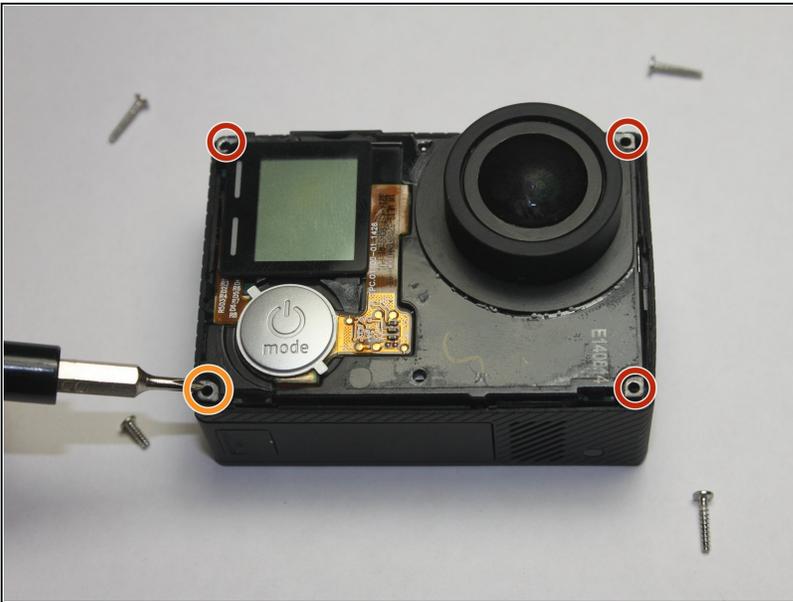
[GoPro Hero4 Lens](#) (1)

Step 1 — Front Panel



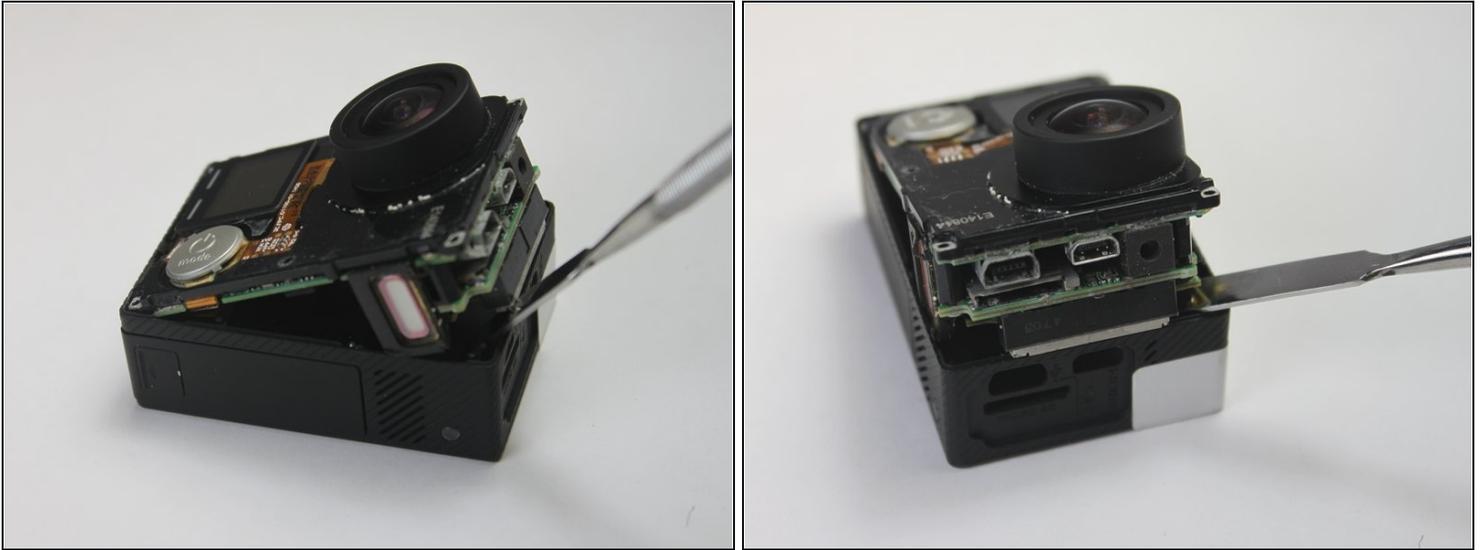
- Start by removing the silver plastic face from the camera using a plastic opening tool. Insert the plastic opening tool into the middle of each edge and lift up the tabs that keep the camera face on.
 - The seven plastic tab locations are marked in red.
 - ⓘ Try using the plastic opening tool before switching to the metal spudger. We tried using the plastic opening tool to pry the camera face off, but found that it did not give us enough leverage.
- ⚠️ There may be glue holding the camera face on to the housing. Be careful not to flex the camera face too much, or it will crack.

Step 2 — Image Sensor



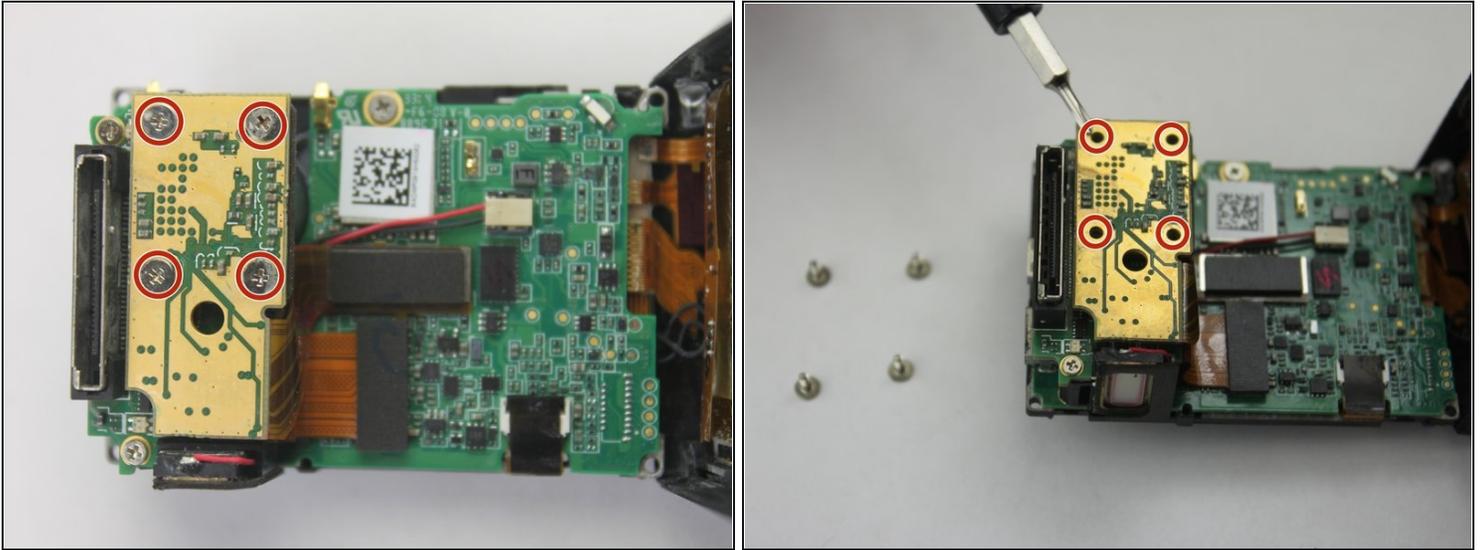
- Remove the three 8 mm Phillips #000 screws on each corner of the camera.
- Remove the single 4 mm Phillips #000 screw on the bottom left corner of the camera.

Step 3



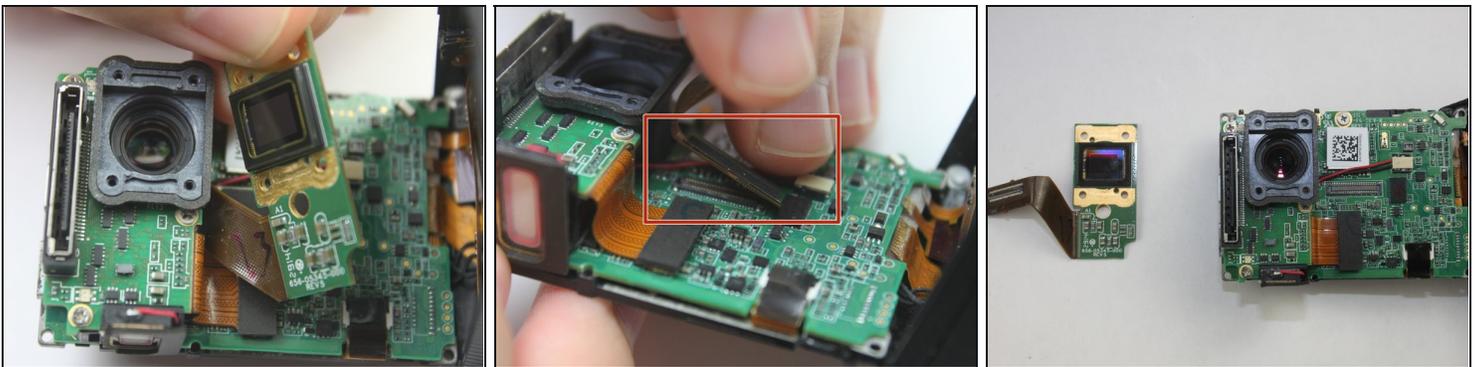
- To remove the motherboard assembly from the camera casing, use the plastic opening tool on the lens side of the camera to pry the motherboard assembly out of the camera housing.
- To avoid breaking the plastic on the lens side of the camera (see photo), pry along the edges near the corners.
- ⓘ Try using the plastic opening tool before switching to the metal spudger. We tried using the plastic opening tool to pry the motherboard assembly open, but found that it did not give us enough leverage.
- ⚠ Do not try to pry near the power button side of the camera. This will break important cables inside.

Step 4



- Remove the four 8 mm Phillips #000 screws securing the camera sensor assembly.

Step 5



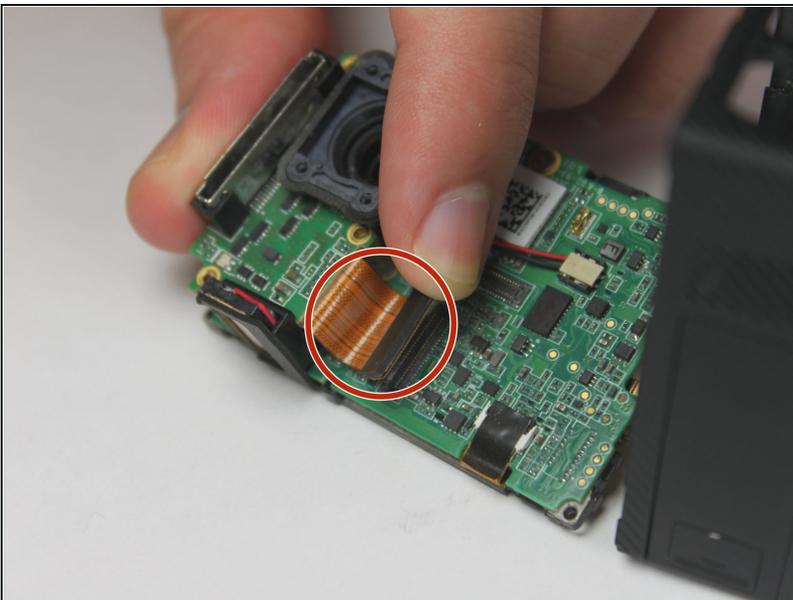
- To remove the sensor assembly, simply peel off the lens towards the attached ribbon cable.
- The sensor has ribbon cables running to the motherboard via a black rectangular connector.
- To remove the sensor, use the spudger to pry up each side, Then, lift the connector straight up from its socket.
- With the old camera sensor assembly removed, you can now replace it with a new sensor.

Step 6 — Hero Port Assembly



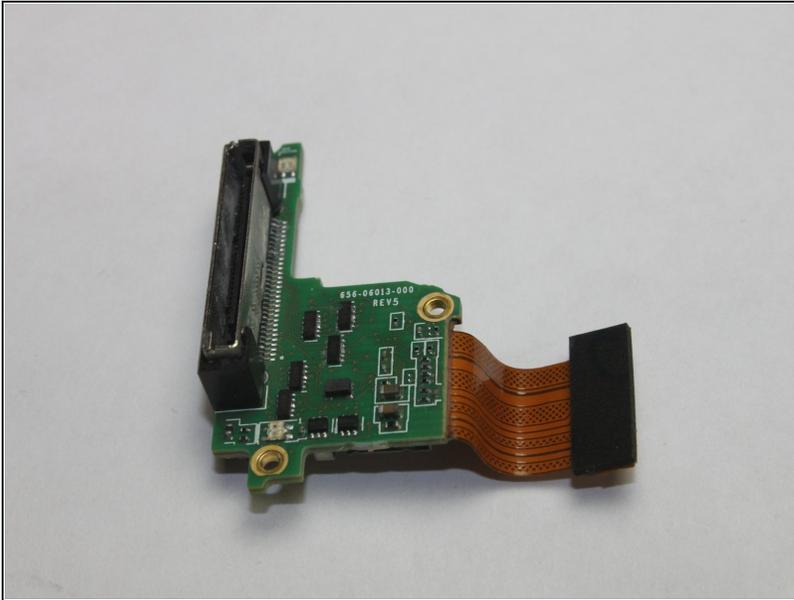
- Remove the three 8 mm Phillips #000 screws securing the Hero port to the motherboard.

Step 7



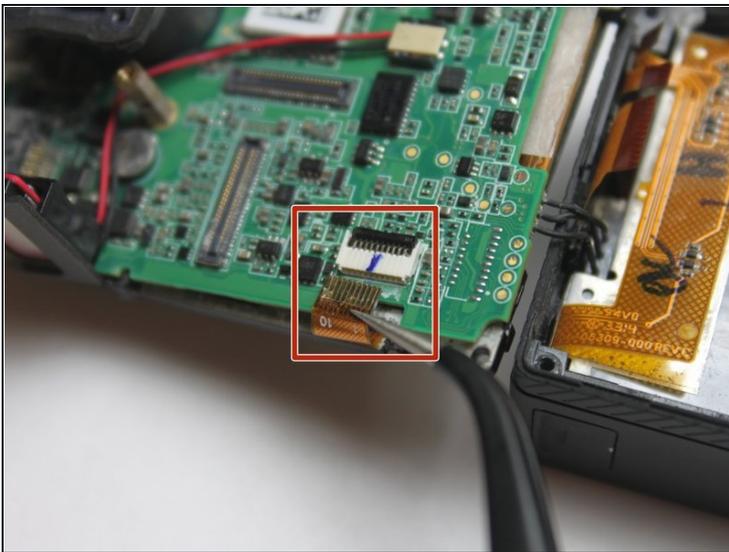
- Locate the copper-colored ribbon cables connecting the Hero Port to the motherboard.
- To remove the connector, use [tweezers](#) or a spudger, pry up each side of the connector. Then, lift the connector straight up from its socket.
- ⓘ When reassembling this piece, do not use too much force to put the black rectangular pins back onto the motherboard. When done right, there will be a 'click'.

Step 8



- To remove the free port, simply slide it out from the left side of the camera. It should come out with slight coercion.
- This piece can be replaced, fixed, or set aside for further tear-down of the GoPro.
- Pictured left is the port when separated from the motherboard.

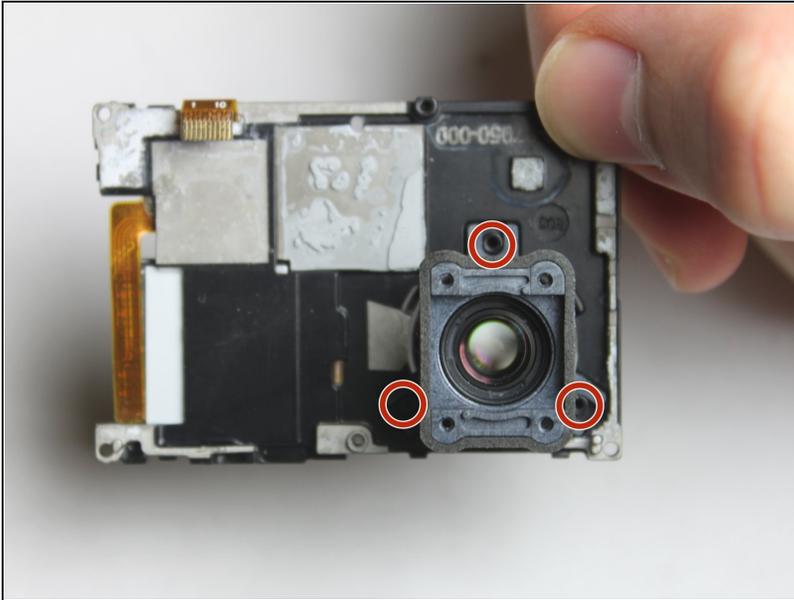
Step 9 — Lens



- Use a pair of [tweezers](#) to disconnect the ribbon cable from the [ZIF connector](#) by flipping up the black retaining flap. You should then be able to pull the cable free.
- Once the ribbon cable is disconnected, you can remove the black plastic bracket which holds the camera lens.

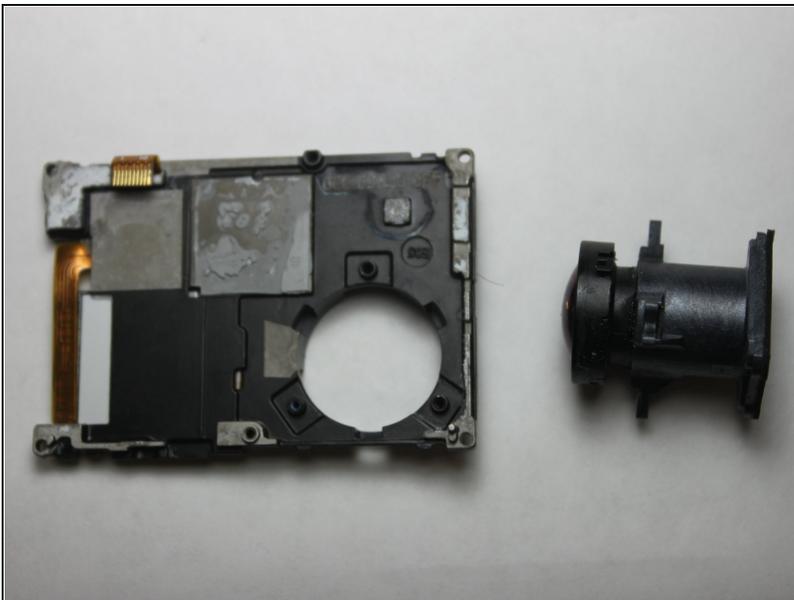
⚠ Be careful removing the ribbon cable. It is very fragile and can tear.

Step 10



- Remove the three 8 mm Phillips #000 screws securing the lens.

Step 11



- Pull the camera lens free from the panel.

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