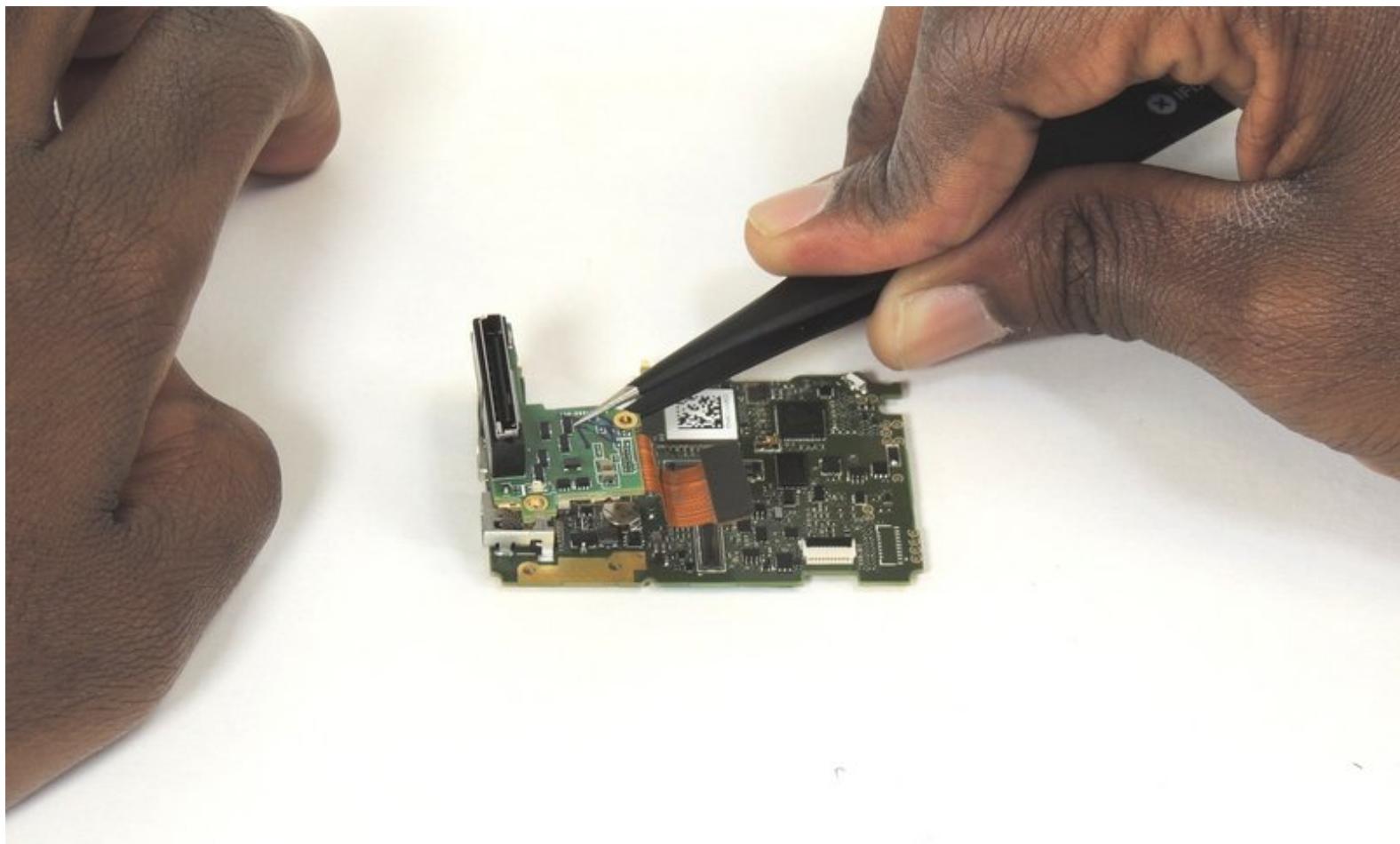




GoPro Hero4 Black Expansion Port/Motherboard Replacement

Guide to replace the expansion port or motherboard in a GoPro Hero4 Black.

Written By: Jeffrey Goethe



INTRODUCTION

Use this guide to replace a malfunctioning motherboard or expansion port. Because replacing either part requires the same steps, they are both combined into one guide.

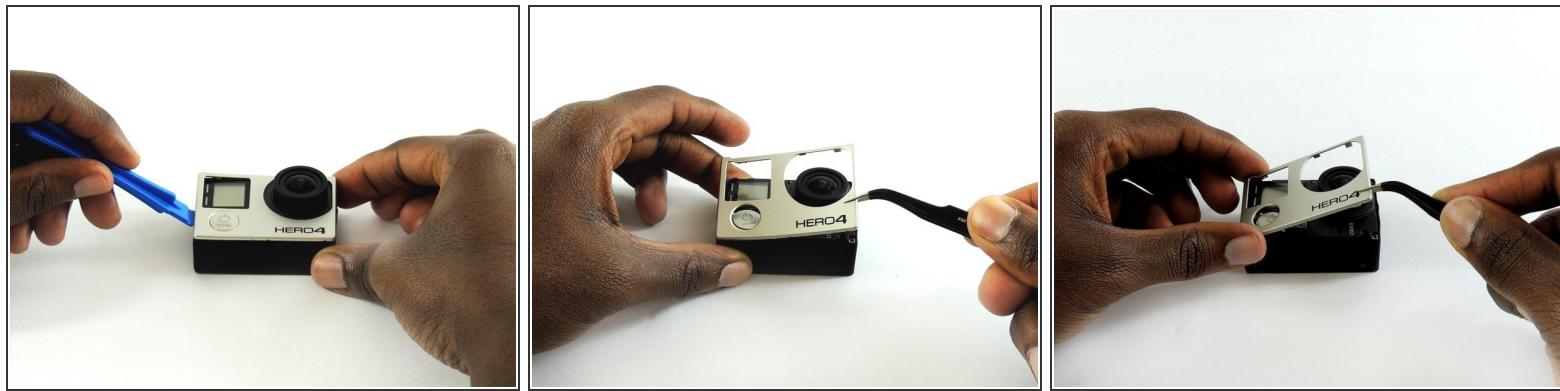
TOOLS:

- [iFixit Opening Tools](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Metal Spudger](#) (1)
- [Tweezers](#) (1)

PARTS:

- [GoPro Hero4 Black Expansion Port](#) (1)

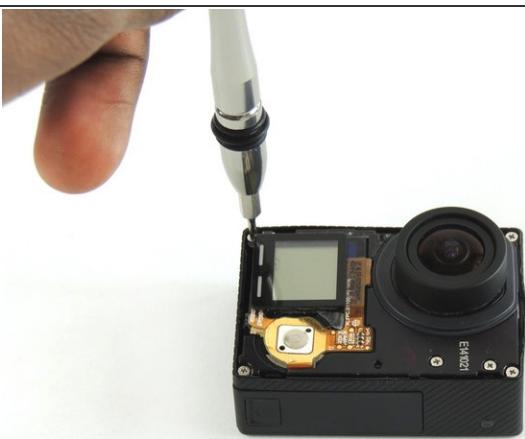
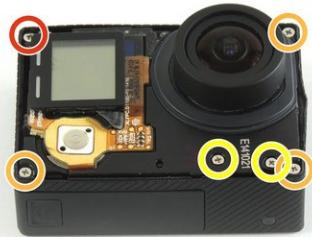
Step 1 — Midframe Housing



- Remove the faceplate by carefully prying around the edge using a plastic opening tool. Loosen the clips on the edge, then pull the faceplate off.
- Use the tweezers to lift the faceplate from the rest of the device.

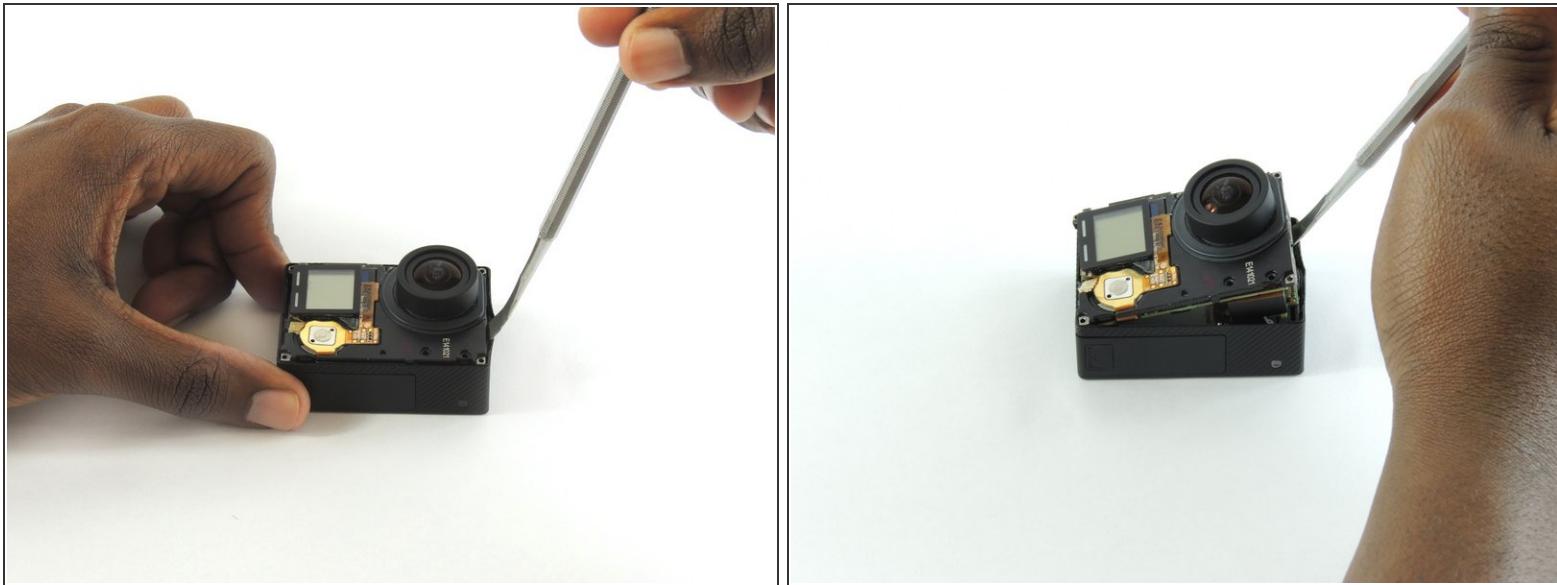
 The power button on the front of the GoPro may pop off. Ensure to align it properly during reassembly.

Step 2



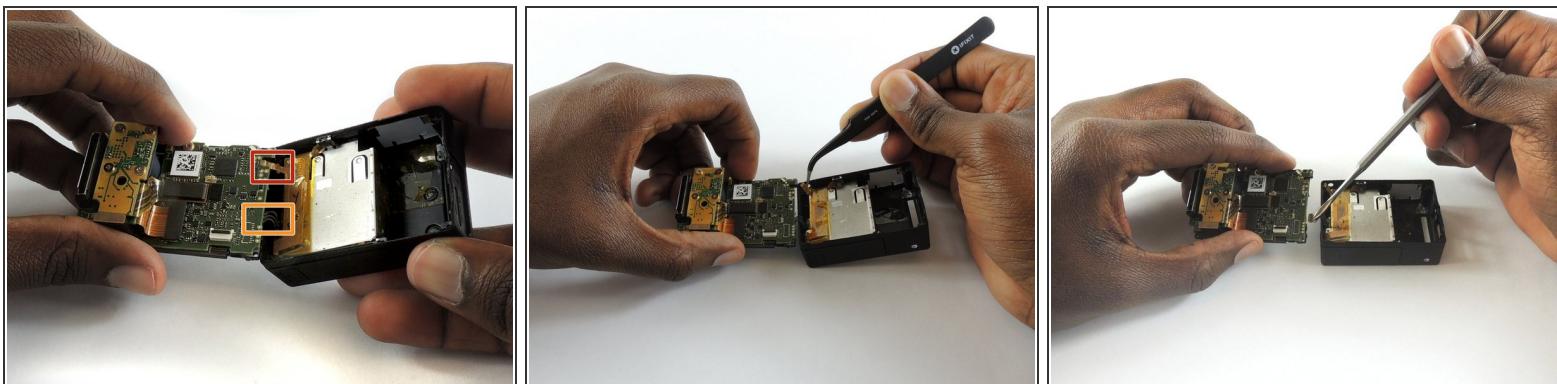
- Using a #00 Phillips head screwdriver, remove the following screws:
 - One 4.6 mm screw
 - Three 8.2 mm screws
 - Two 6.1 mm screws

Step 3



- Insert a metal spudger between the back plastic housing and the camera board assembly. Working around the edge to be careful of the inner components, carefully remove the camera.

Step 4



- Using tweezers, remove the ribbon strip by pulling on it. This will remove the connection.
- Push down on the three wires with the metal spudger and the clip will disconnect from the motherboard.

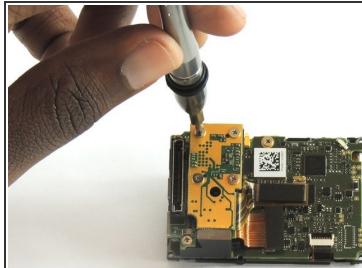
★ During reassembly, remove the black tape on the ribbon cable, turn the camera upside down so you can see the port, and reinsert the cable with tweezers. It's a lot easier!

Step 5 — Camera Sensor



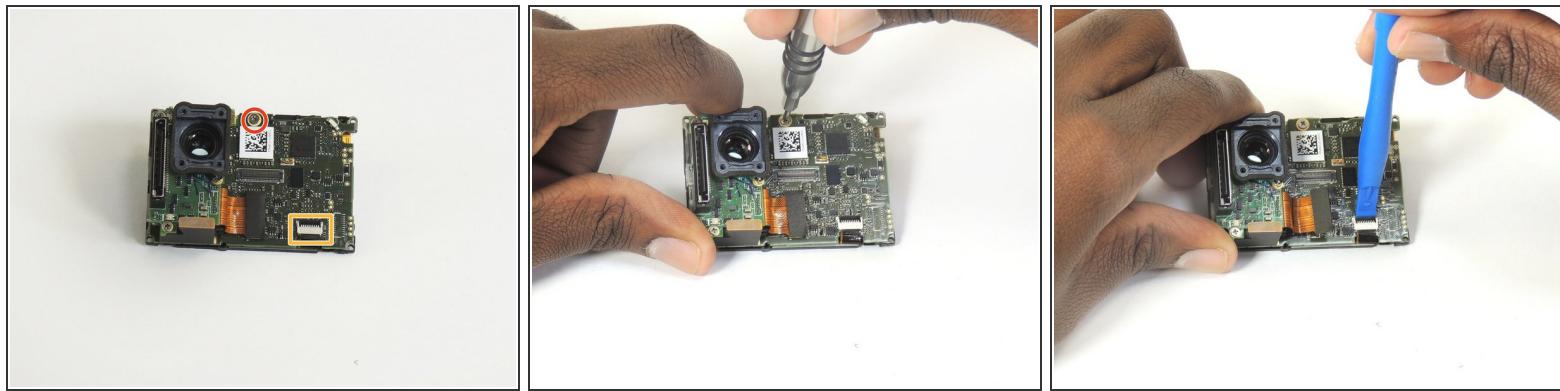
- Using a plastic opening tool, separate the camera sensor's connector from the motherboard.

Step 6



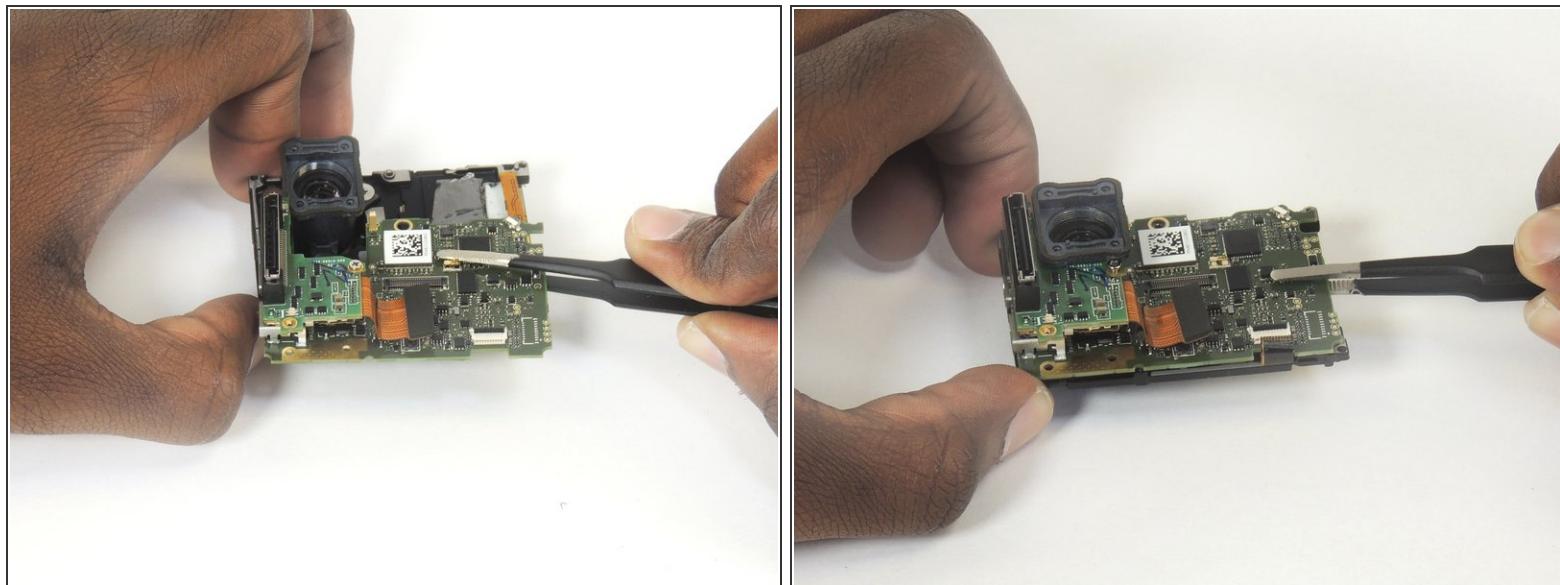
- Using a #00 Phillips head screwdriver, remove the four 3.0mm screws holding the camera sensor.

Step 7 — Expansion Port



- Using #00 phillips head screwdriver, remove the 3.0mm screw.
- Using the plastic opening tool, unclip the LCD ribbon from the motherboard.

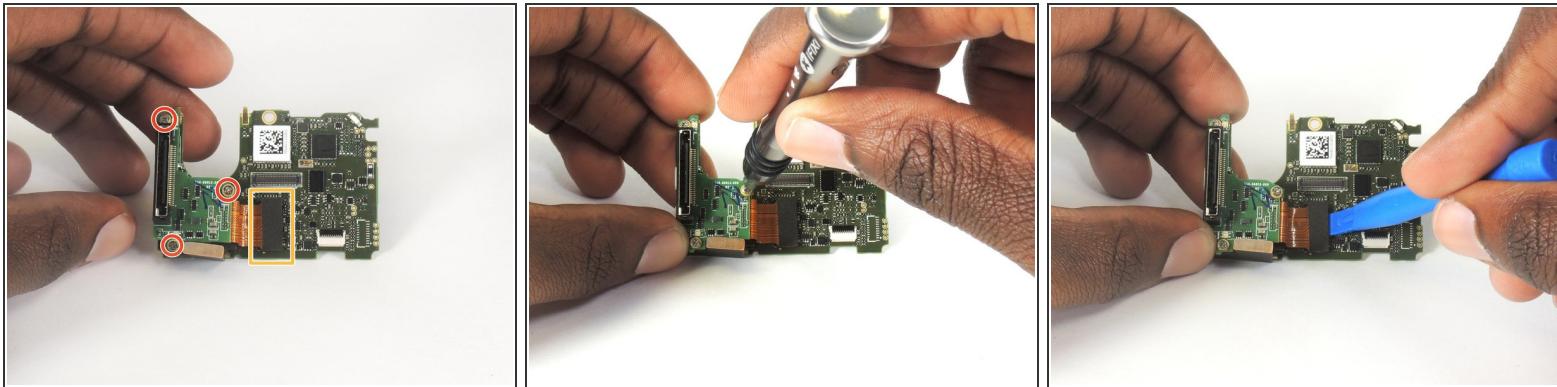
Step 8



- Using tweezers, lift the motherboard from the midframe housing

⚠ It may feel like the board is still attached with a screw or two. Gentle, but firm wiggling will free the board.

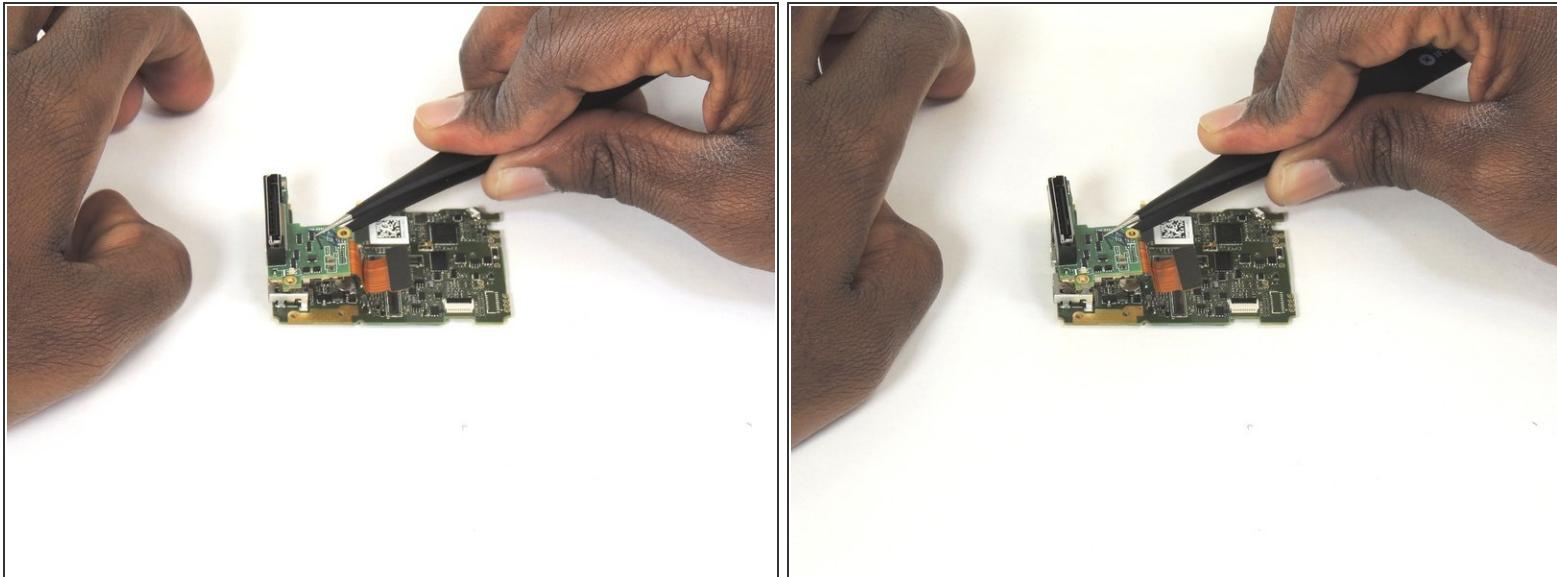
Step 9



- Using #00 phillips head screwdriver, remove the three 4.0mm screws.
- Using plastic opening tool, unclip Expansion Port chip from motherboard

⚠ A metal piece of the frame sits underneath the bottom screw, which will detach upon removing the screw.

Step 10



- Lift the expansion port chip from the motherboard.
- It is now possible to replace the expansion port and/or motherboard.

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