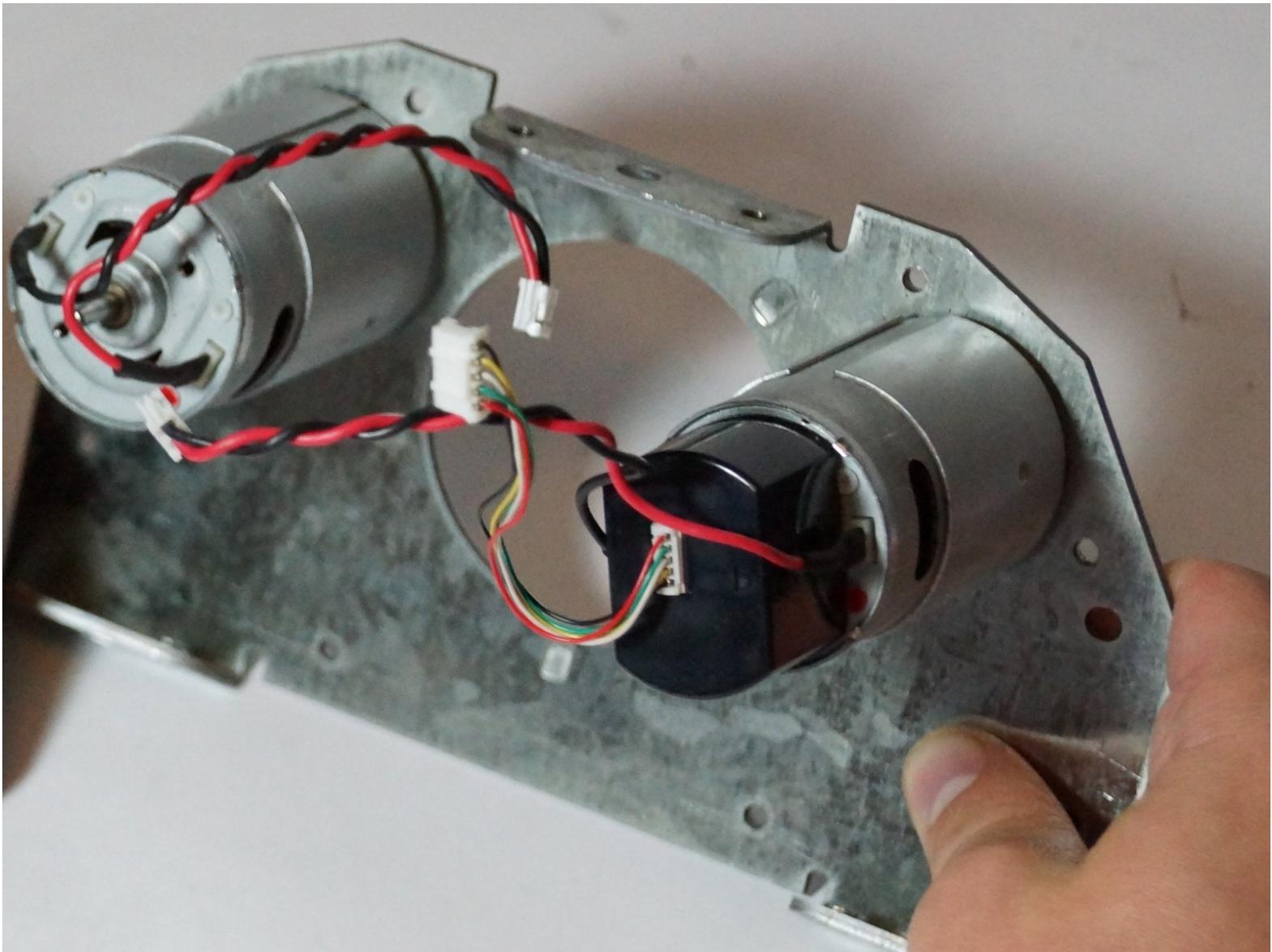




Logitech G27 Internal Motors Replacement

This guide will teach you how to replace the internal motors of the Logitech G27 gaming steering wheel. These are the motors that create forced feedback as well as any resistance that the game puts into the steering.

Written By: Max Barta



INTRODUCTION

This guide will pick up from the pre requisite guide [Disassembling Logitech G27 Steering Wheel](#). In this guide we will be showing how to replace the motors that create force feedback in-game. After following this guide your Logitech G27 Steering Wheel should be fully functional.

TOOLS:

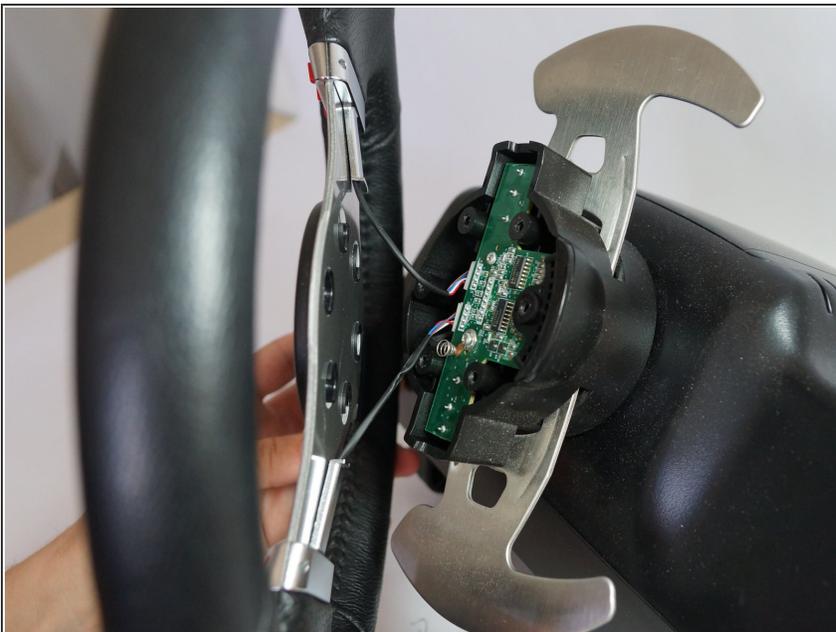
- [Phillips #1 Screwdriver](#) (1)
 - [4mm Allen Wrench](#) (1)
 - [iFixit Opening Tool](#) (1)
-

Step 1 — Steering Wheel



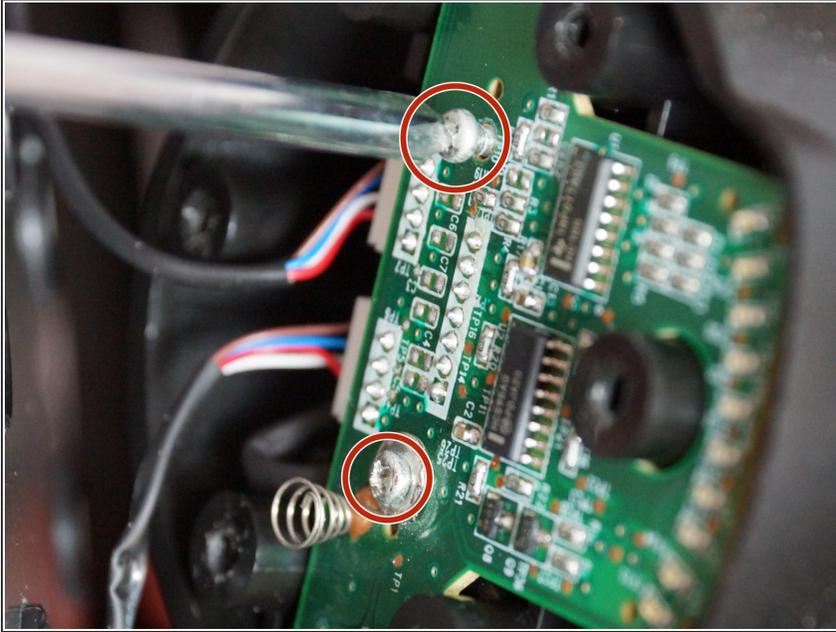
- Remove the six gray 25mm hex screws with a 4mm allen wrench.
- ⚠ Watch out when you lift the wheel up, as there are fragile wires connected to the bottom side.
- Carefully lift up the wheel, but do not disconnect it from the rest of the device.

Step 2



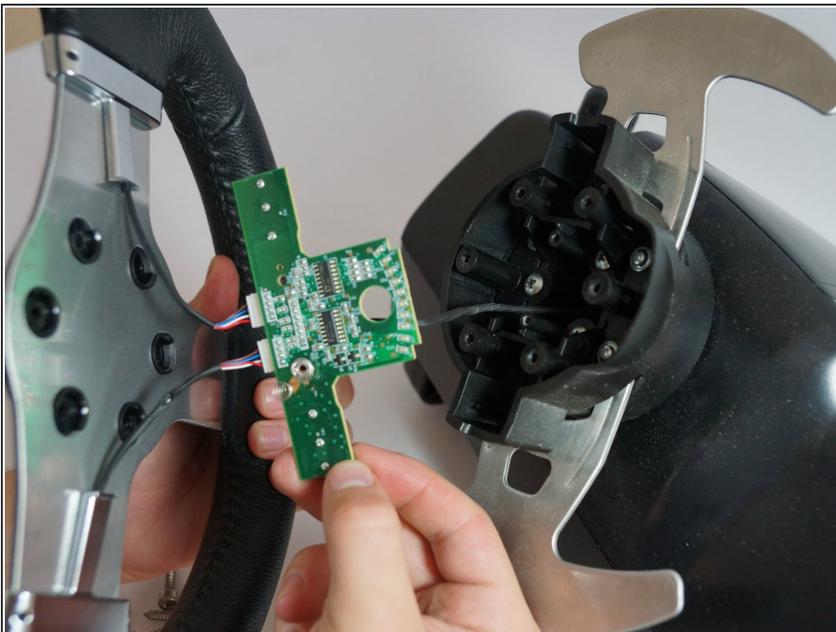
- Carefully lift the wheel off of the hub, exposing the 2 shifter paddle wires and PCB board.

Step 3



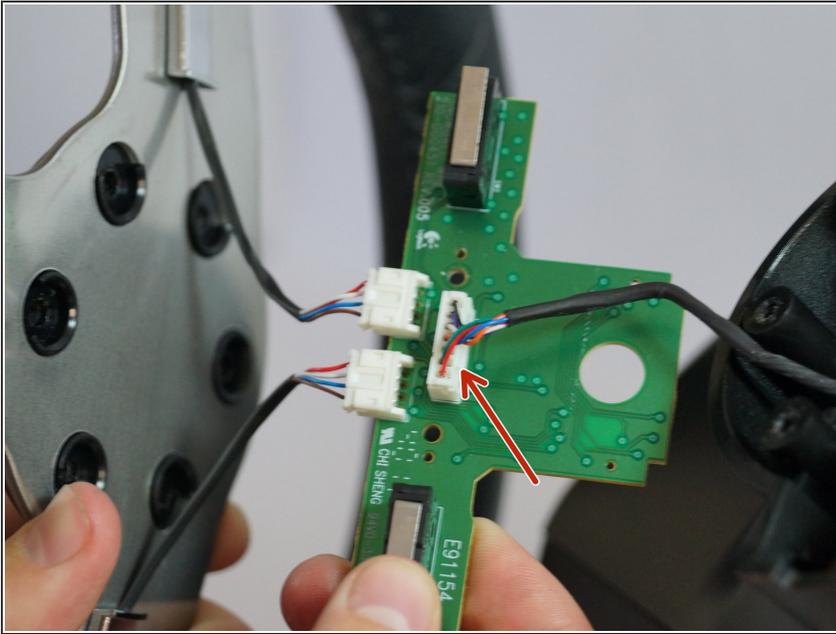
- Remove the two 7.5 mm silver screws holding the green PCB board in the wheel with a Phillips #1 screwdriver.

Step 4



- Carefully remove the PCB board from the wheel hub.

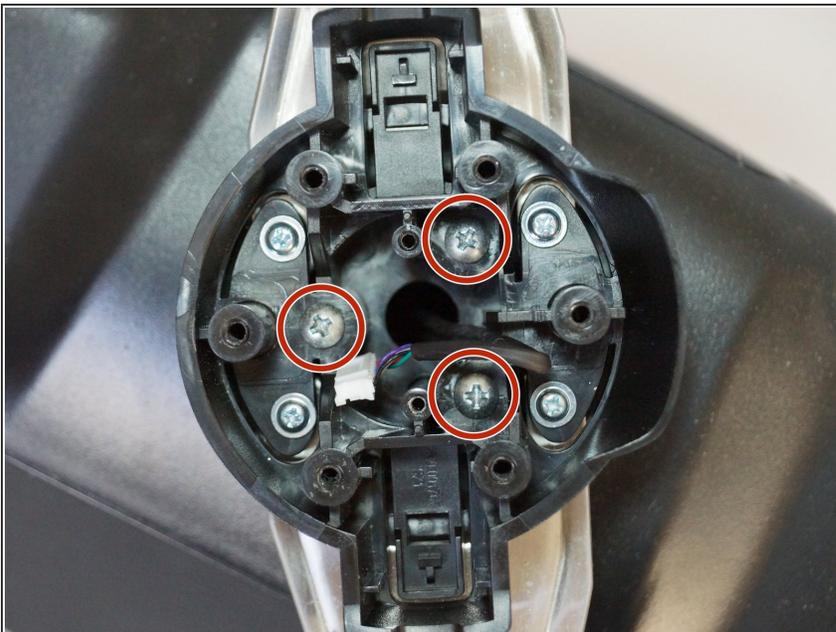
Step 5



- Carefully pinch and unplug the large 7-pin connector under the PCB board.

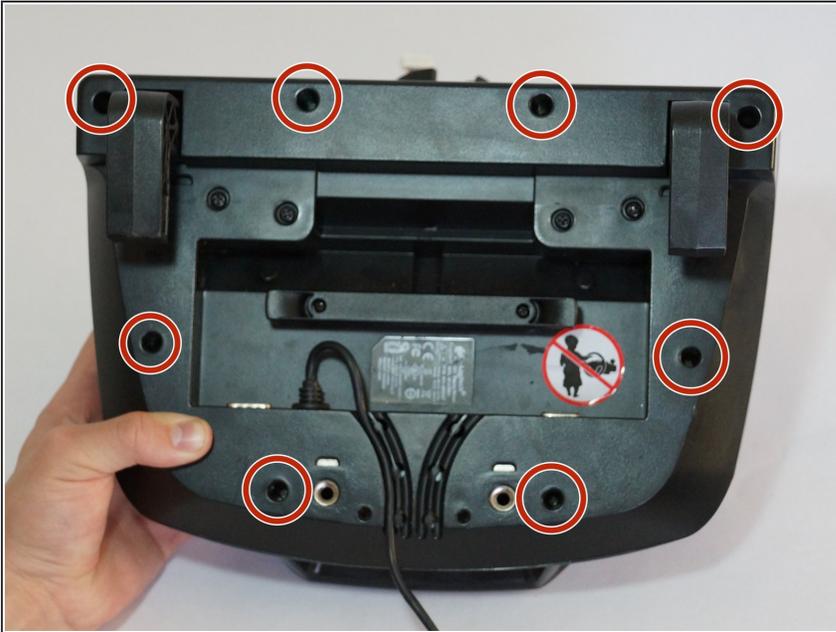
⚠ Be careful when unplugging this adapter, try not to pull on the wires to avoid damaging them. Instead, wiggle around the plastic connector while pulling on it to loosen it.

Step 6



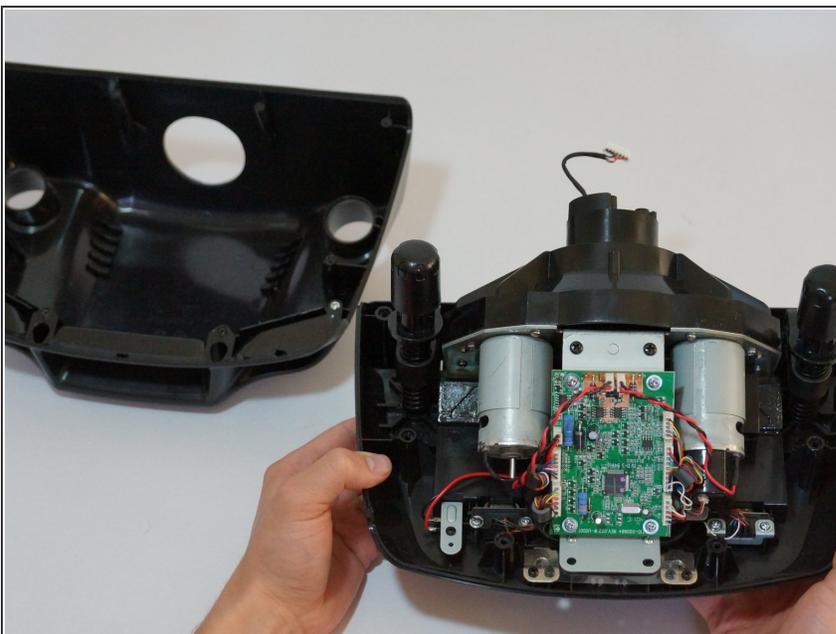
- You can now fully remove the wheel from the hub. Set it aside until you put the wheel back together.
- Remove the innermost three 37.5mm silver screws with a Phillips #2 screwdriver.
- Remove the wheel hub and push the connector through the center of the hub.

Step 7



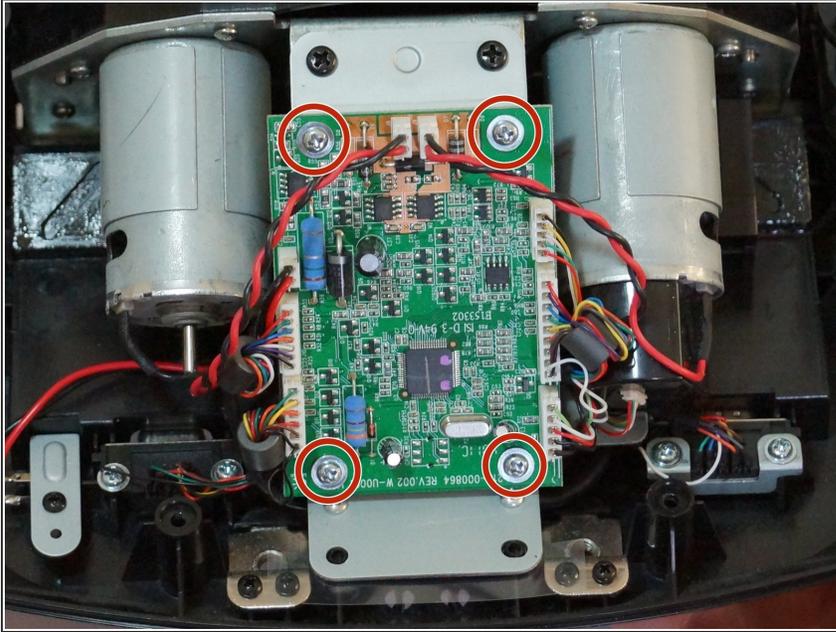
- The wheel hub can now be set aside and flip over the steering wheel housing to reveal the under side.
- Remove the eight 15.9mm silver surrounding screws underneath the wheel housing with a Phillips #1 screwdriver.

Step 8



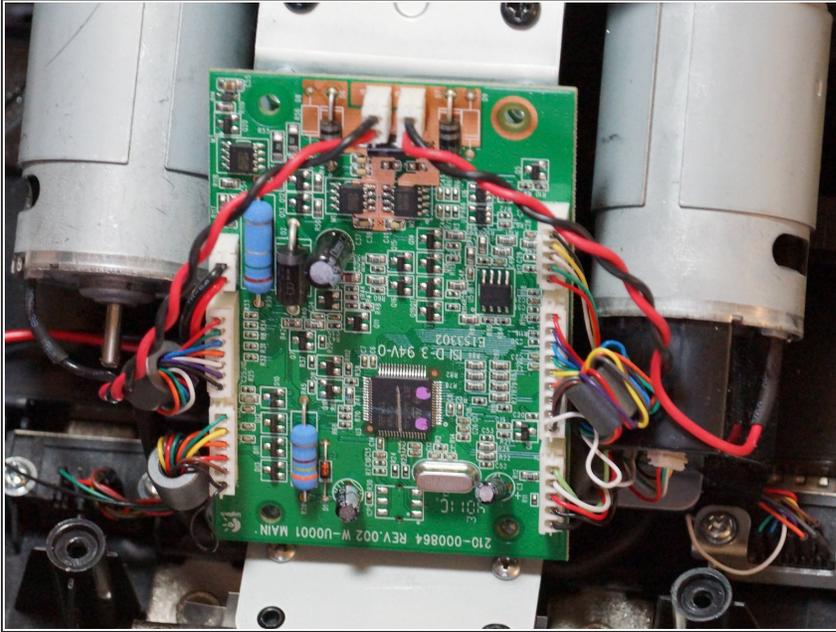
- Rotate the housing back over and remove the top half of the housing revealing the majority of the components of the wheel.
- The housing cover can be set aside until you put the wheel back together.

Step 9



- Remove the four 7.3mm silver screws attaching the green PCB board to the motor housing with a Phillips #2 screwdriver.

Step 10



- Unplug the three plastic connectors on the left side of the PCB board.
- Unplug the two plastic connectors on the top of the PCB board.
- Unplug the three plastic connectors on the right side of the PCB board.

⚠ Pulling the plastic connectors requires a lot of force, but be careful and don't pull directly on the wires. Try to wedge or push the male side of the connector out.

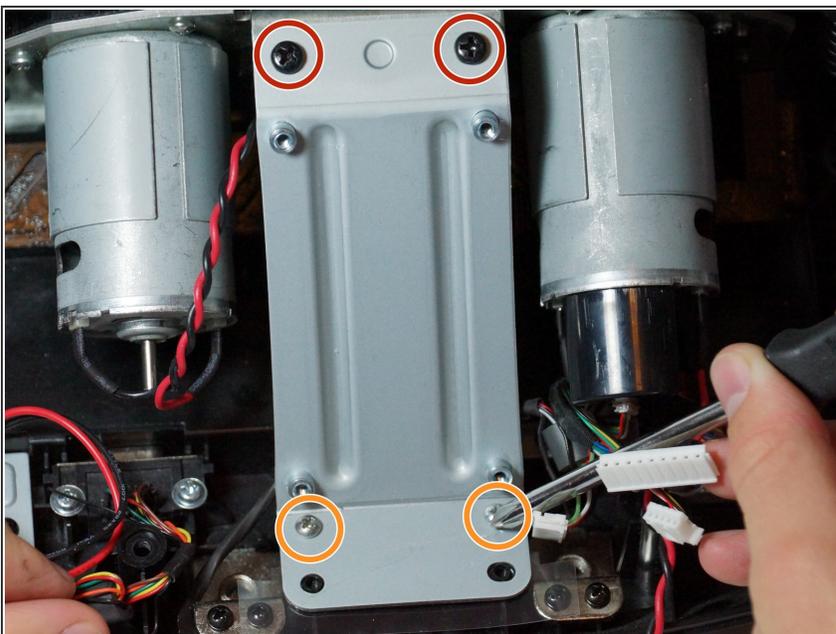
- i** If you need some extra leverage when removing these connectors, try using a plastic opening tool to pry off the connectors.
- i** Removing these connectors allows easier access to the four screws attaching the PCB board mount to the motor housing.

Step 11



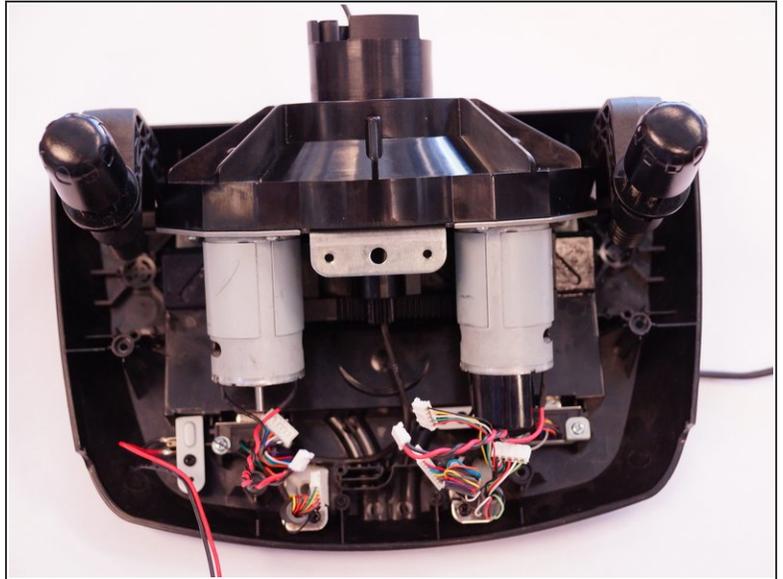
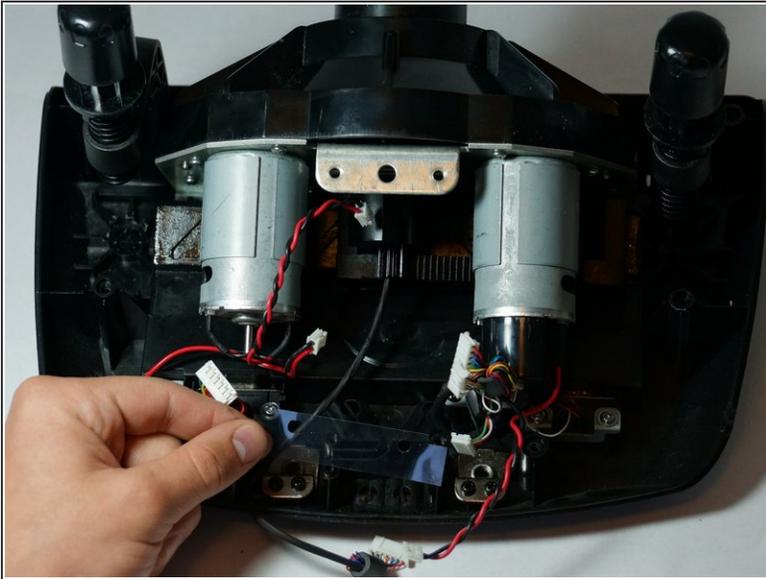
- Remove the PCB board after all of the plastic connectors are disconnected.
- You can now set it aside.

Step 12



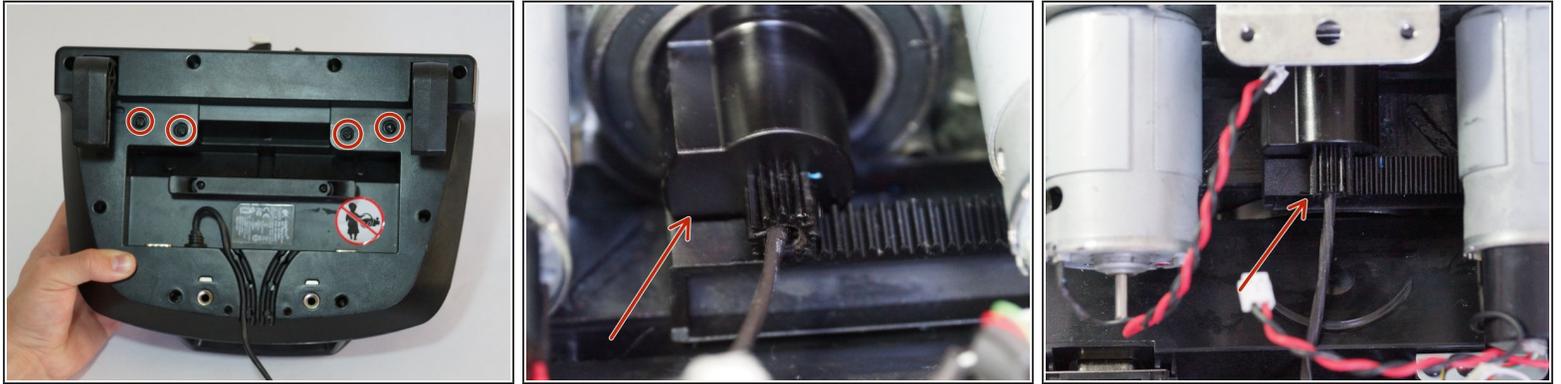
- Remove the two 12.3mm upper black screws with a Phillips #2 screwdriver.
- Remove the two 15.5mm bottom silver screws with a Phillips #1 screwdriver.

Step 13



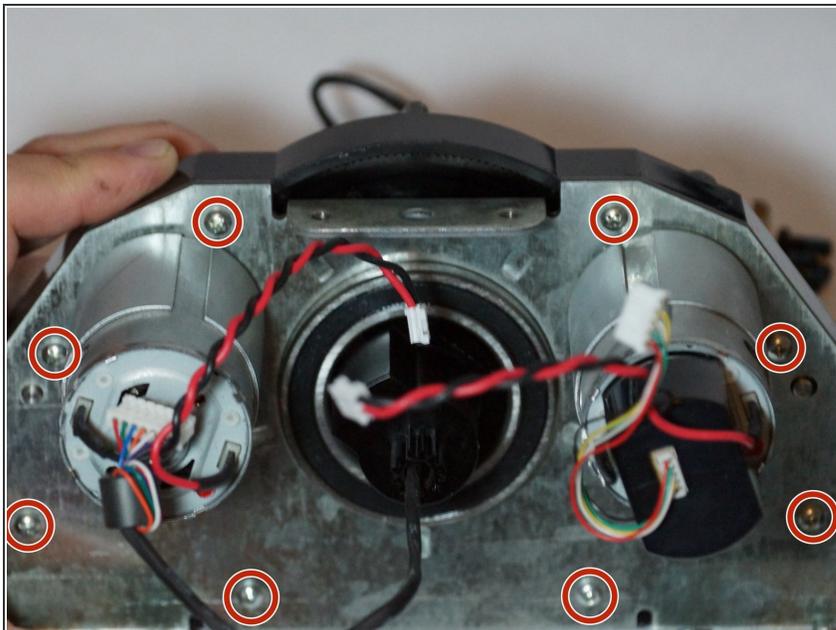
- Remove the PCB board mount and remove the clear plastic piece underneath.
- Set them aside until you reassemble the wheel.

Step 14 — Internal Motors



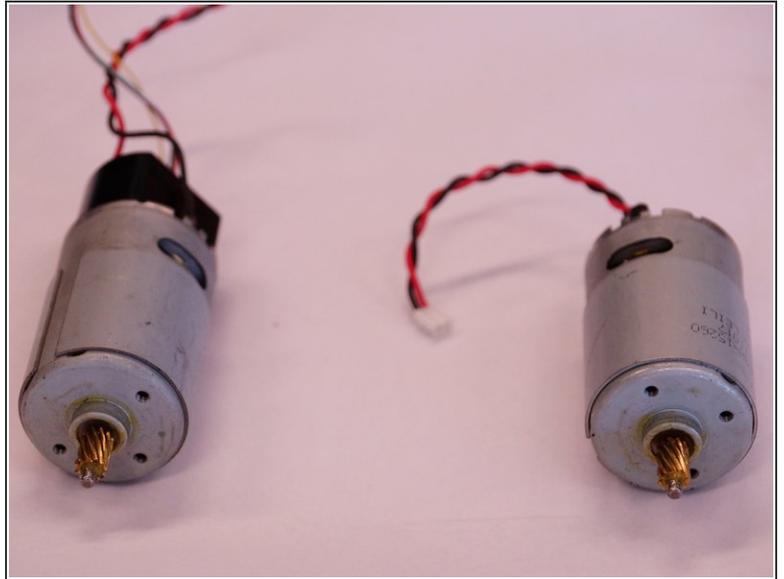
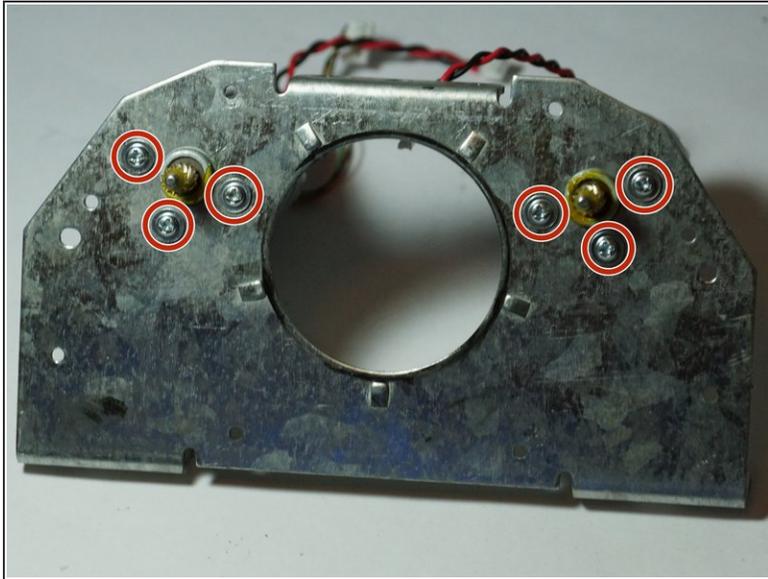
- Remove the four 12.2mm screws using the Phillips screw driver.
- The motors and gear box should now slide out. As you take it out, the metal spring band as well as the track for the wheel gear will also slide off.
- ⓘ During reinstallation, make sure when doing this step to align the stop on the wheel gear with the track as shown in the second and third pictures.
- When you have separated these parts, you can set them aside until reassembly.

Step 15



- Next remove the eight 15.8mm screws that connect the plate holding the motors to the gear box.
- ⚠ When separating the gear box from the motor plate and motors be sure the gears do not fall out as they are difficult to put back in.

Step 16



- Remove the six 7.4mm screws that attach the motors to the motor plate and slide the motors off the motor plate.
- The motor plate can be set aside and the motors can now be replaced.

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