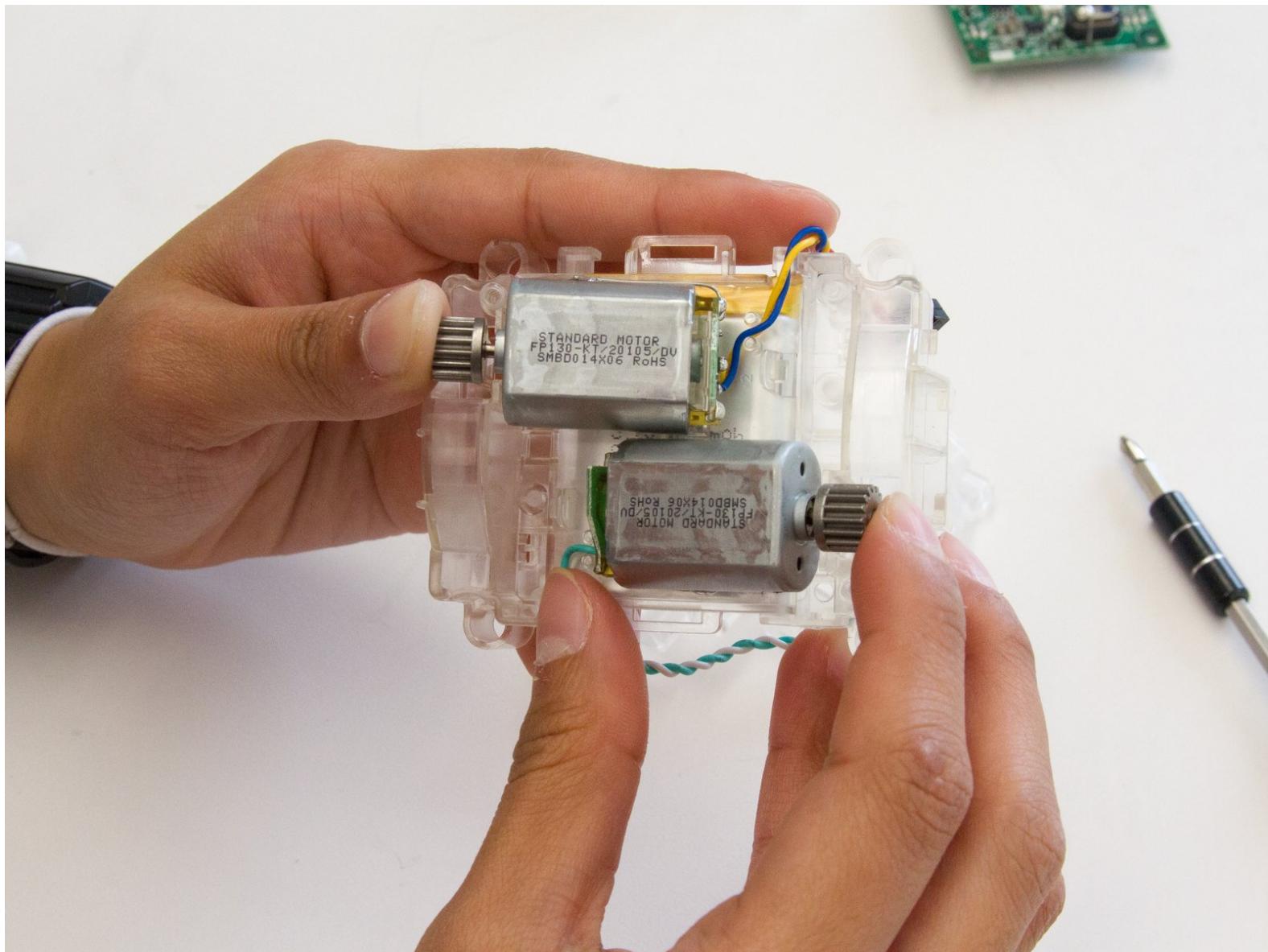




Sphero Ollie Motor Replacement

Replace the motors controlling the wheels if Ollie is driving slower or the wheels aren't moving.

Written By: Kakkada Tho



INTRODUCTION

If Ollie's wheels are moving slower than you think it should, then you are going to want to change the motors that control the wheels. This guide will walk you through how to replace the motors. All you need is a Phillips #1 Screwdriver and Ollie will be up and running in no time.

TOOLS:

- [iFixit Opening Tools](#) (1)
- [iFixIt Phillips #00 Screwdriver](#) (1)

Step 1 — Tires and Hubcaps



- Firmly grasp Ollie in one hand.
- Remove the blue rubber tire in a peeling motion with your opposite hand.

Step 2



- Continue to firmly hold Ollie in one hand.
- Use a Plastic Opening Tool to gently pry off the hubcap.

(i) Avoid inserting the Plastic Opening Tool into the empty holes, but instead use the tool near the tabs holding the hubcap in.

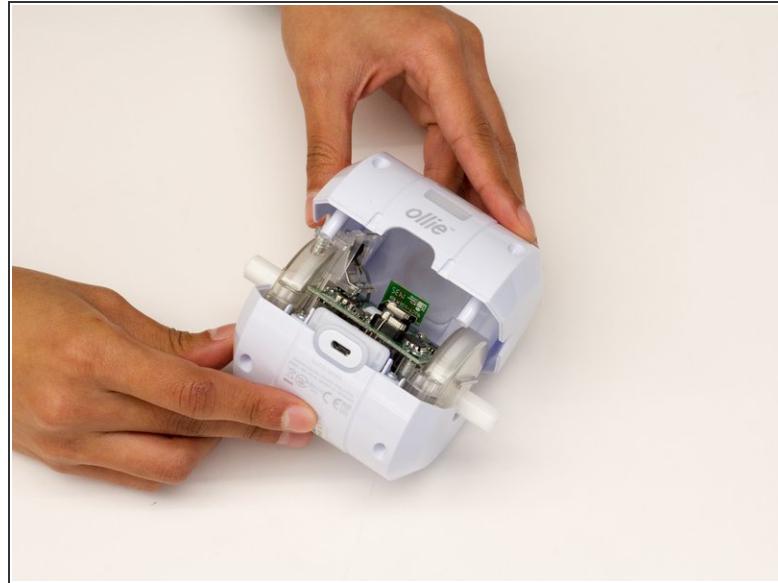
⚠ Do not aim the hubcap towards another person as it may pop off with force.

Step 3 — Motherboard



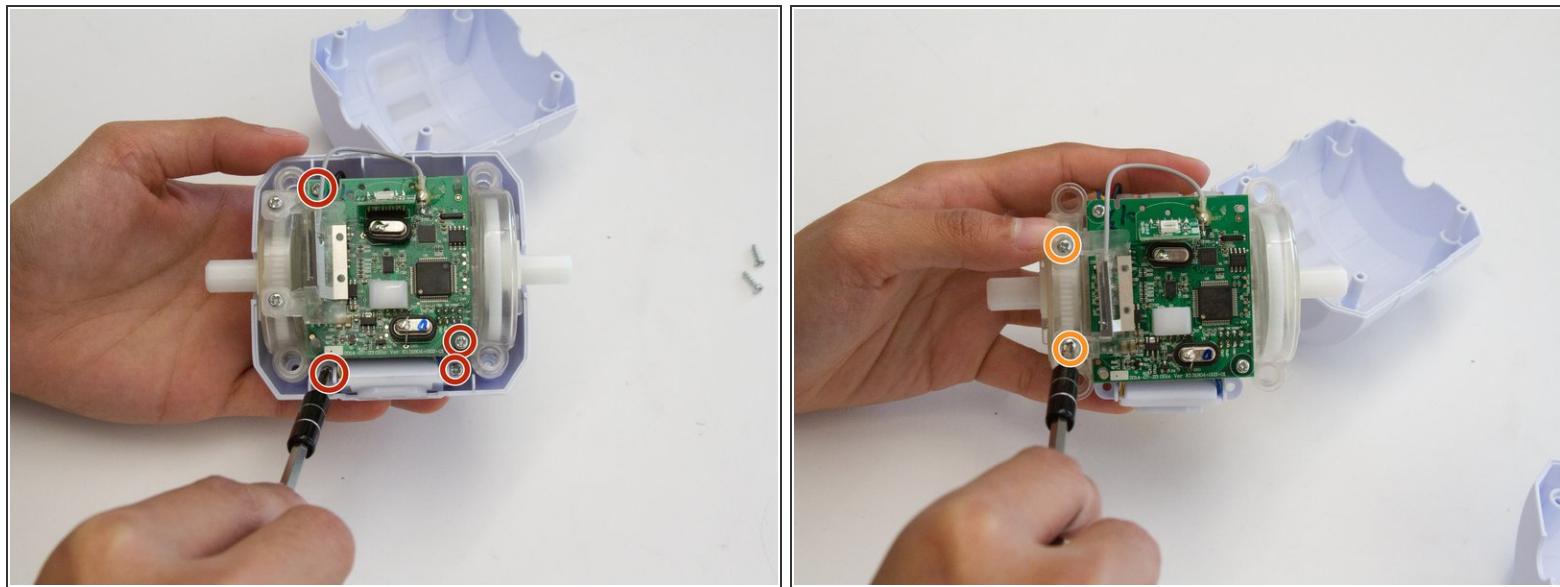
- Loosen and remove the 10mm screw on each side of the device using a JIS 1 screwdriver tip.
- Remove the plastic tire frame from the device

Step 4



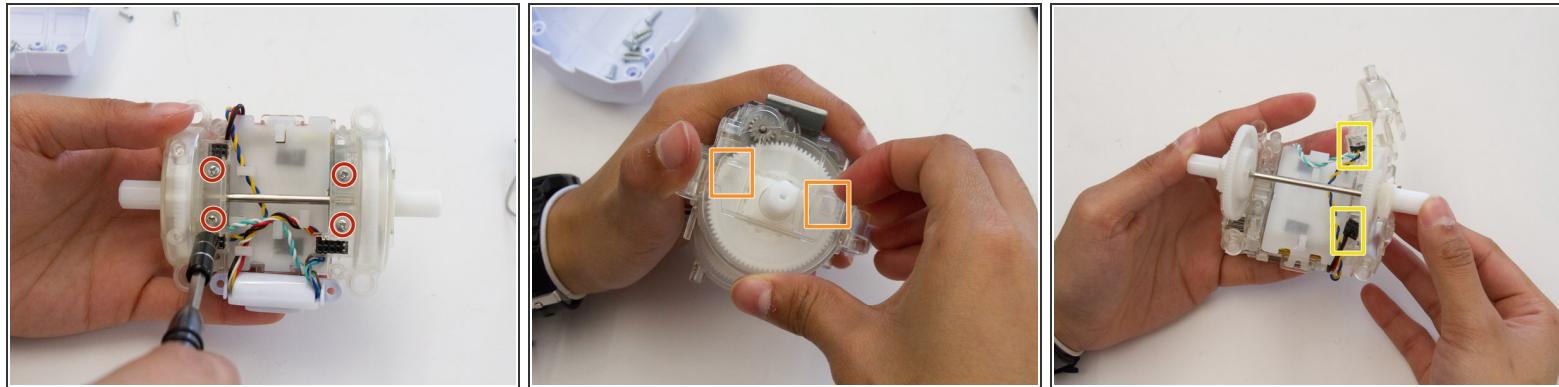
- Loosen and remove the four 10mm Screws on the underside of the device using a JIS 1 tip.
- Firmly grasp the bottom of the device and pull the top half of the outer case off of the bottom.

Step 5



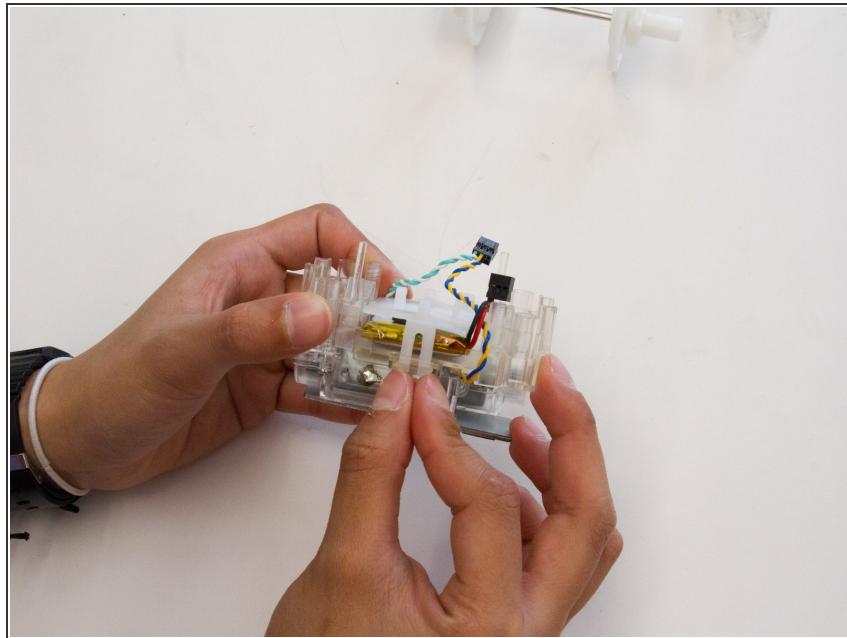
- Loosen and remove the 10mm screws holding the blue tooth connector as well as the two 1.10 screws holding the motherboard to the case using the JIS #1 screwdriver
- Loosen and remove the 10mm screws holding the antenna to the case.
- Gently remove mother board from the case with an upward motion.

Step 6 — Motor



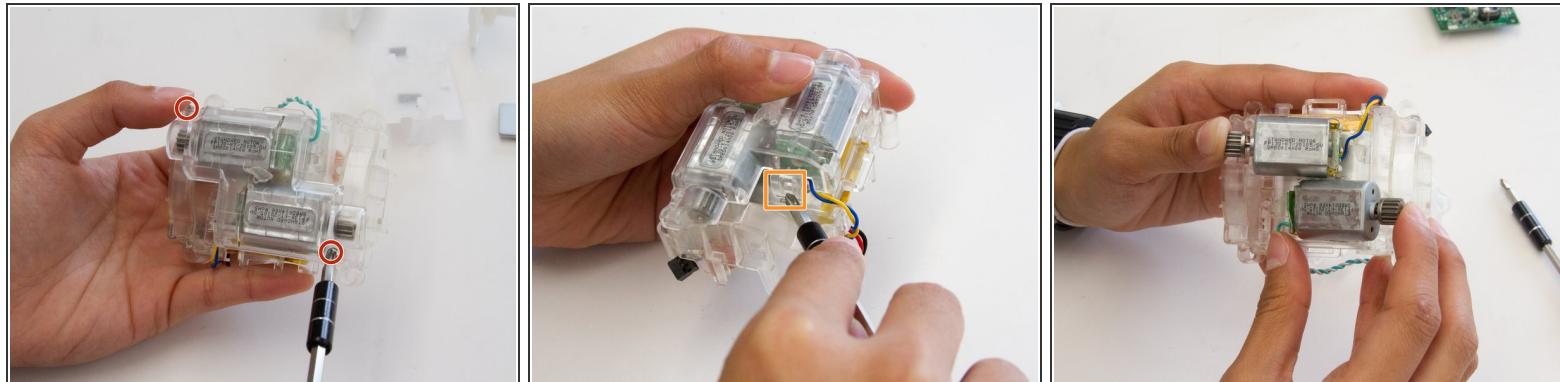
- After you have removed the motherboard, use a JIS #1 screwdriver to remove the **four** 10mm screws holding in the cog shields.
- Next, you want to pull apart the clips (**two on each side**) holding the top piece of the shield to the frame.
- Then, once you have freed the cogs, you can lift the cog and remove it from the frame.
- *(i)* To completely remove the cog shield out of the way, carefully remove the black pin connectors from the slot in the shield.
- Then, gently remove the wheels from the case

Step 7



- Once you have removed the cog out of the way, you can then pinch the **clip on both sides** to remove the cover protecting the battery

Step 8



- After you have removed the battery cover, flip the device around to view the motors
- Loosen and use a JIS #1 screwdriver to remove the two 10mm Screws holding the clear case of the motors
- Next, gently push the clip (**on both sides**) with a screwdriver to release the clear case
- To remove the motors, simply pull on it with slight force

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