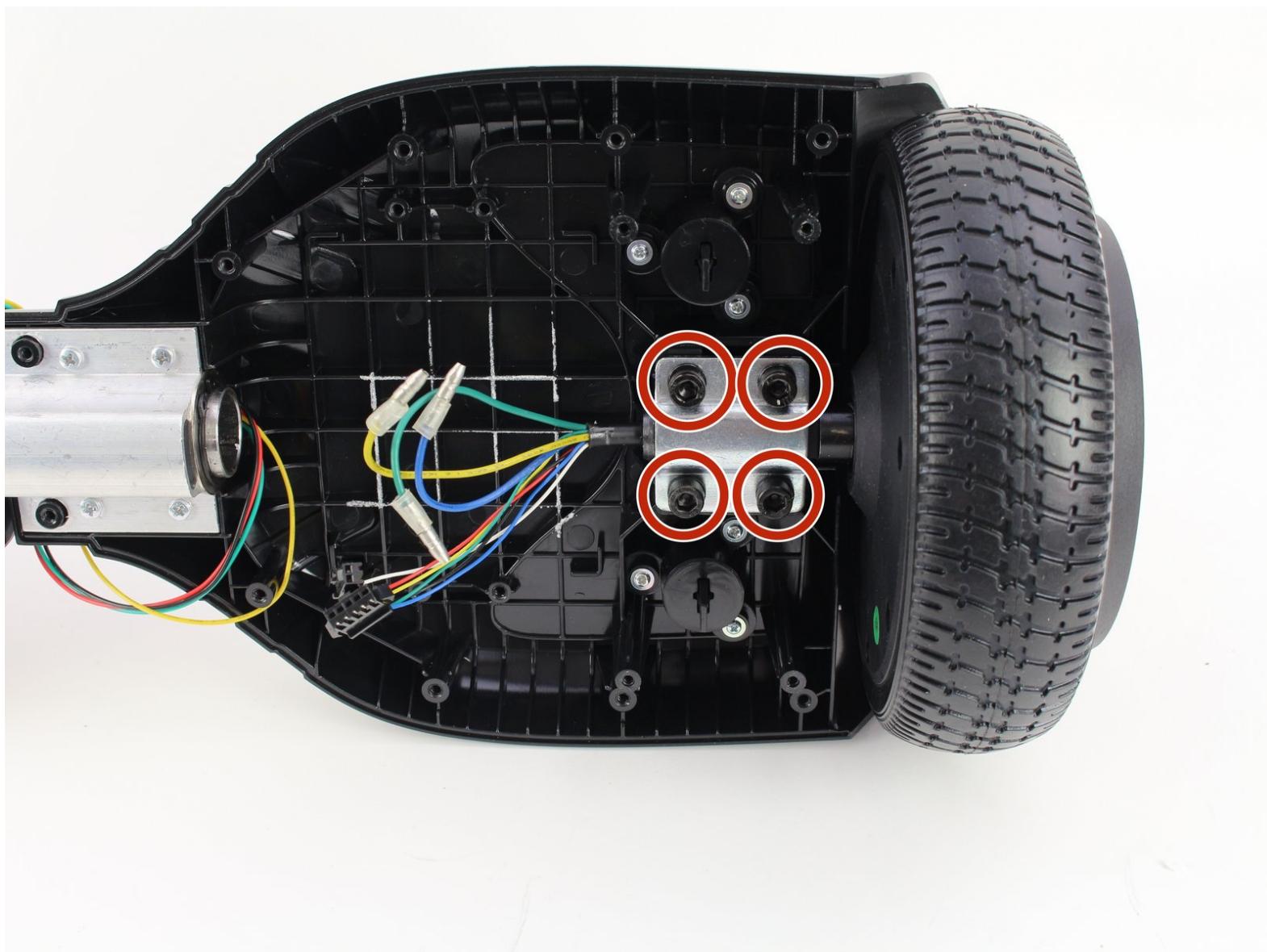




# Hover-1 Liberty Wheel Motor Replacement

Replace the wheel of the Hover-1 Liberty hoverboard.

Written By: Eduardo Miranda



## INTRODUCTION

If the hoverboard is unwilling to move and it is fully charged, there may be an issue with the wheel motors.

### TOOLS:

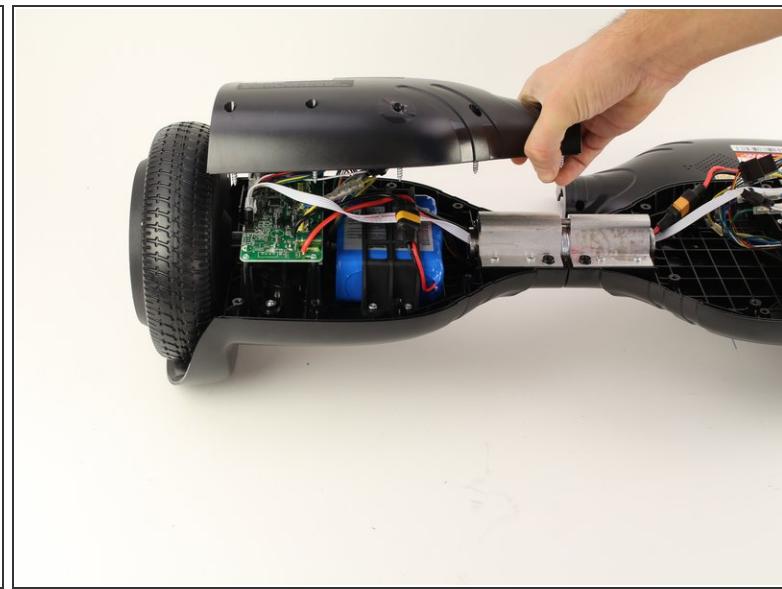
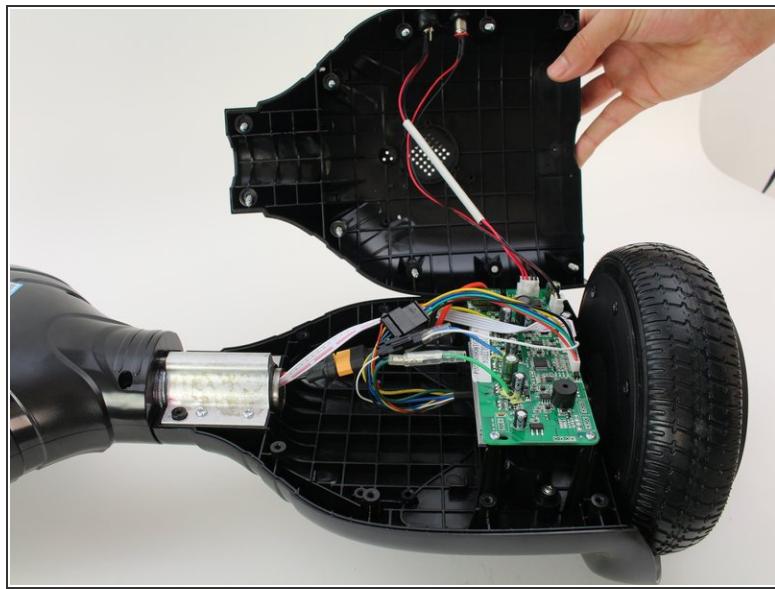
- Phillips #2 Screwdriver (1)
- Phillips #1 Screwdriver (1)
- 6mm Allen Socket (1)

## Step 1 — Bottom Cover



- Flip the hoverboard over so the labels are facing upwards.
- Remove the twenty 18mm screws using a Phillips #2 screwdriver and twisting counterclockwise.

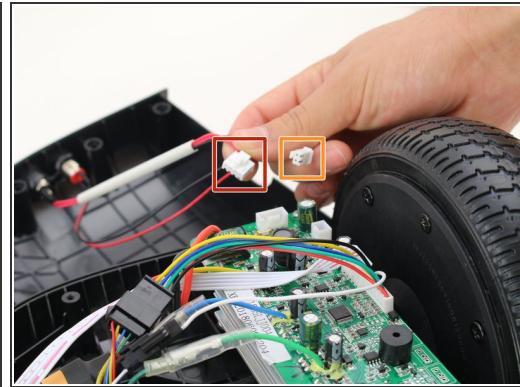
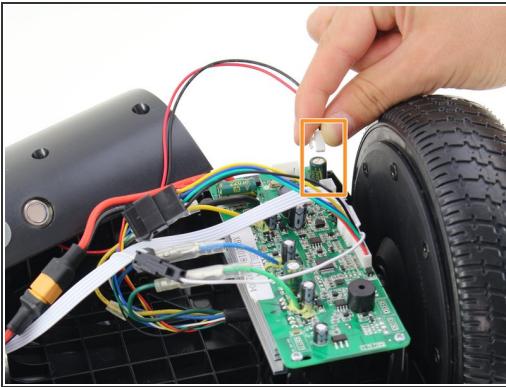
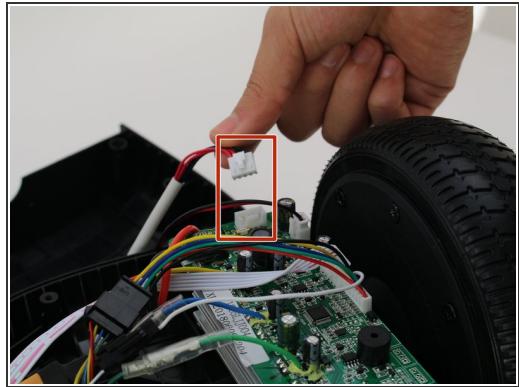
## Step 2



- Remove the bottom cover by lifting it away from the hoverboard.

*(i)* The cover on the side without the battery has two wires connecting the power button and charging port.

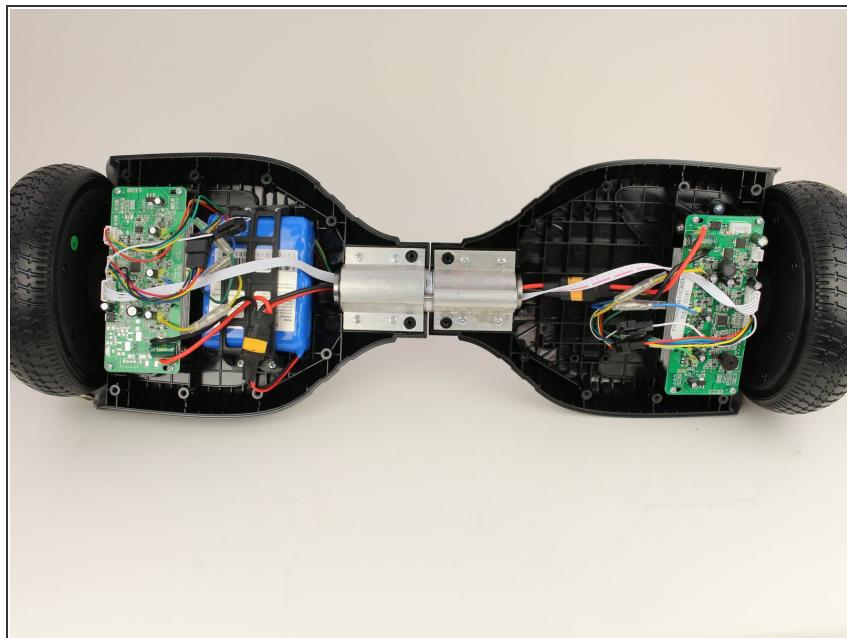
## Step 3



- Remove one connector from the non-battery side circuit board.
- Remove the next connector from the non-battery side circuit board.

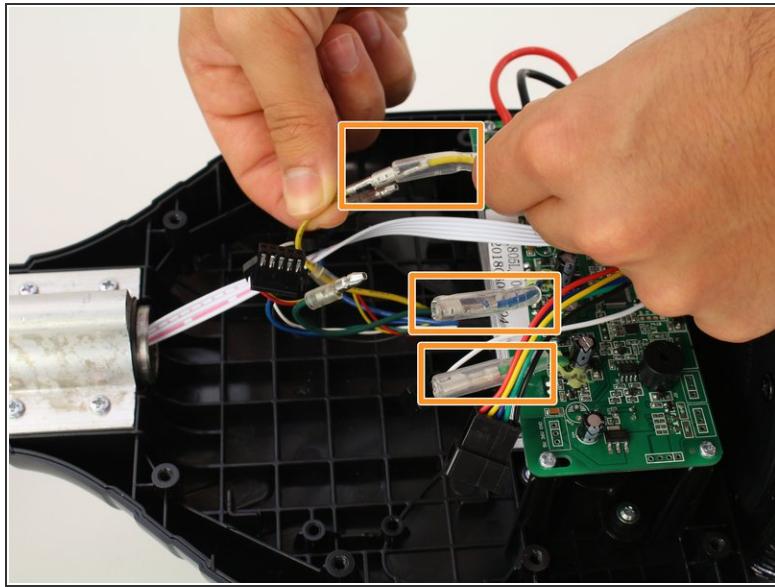
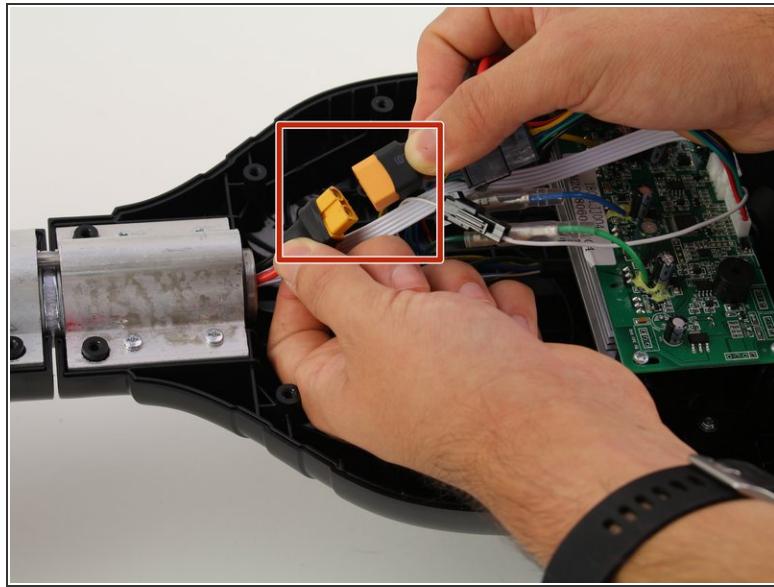
*(i)* To remove the connectors, pinch the plug and pull away from the circuit board.

## Step 4 — Gyroscope Sensor Boards



- Place the hoverboard so the sensor boards face you.

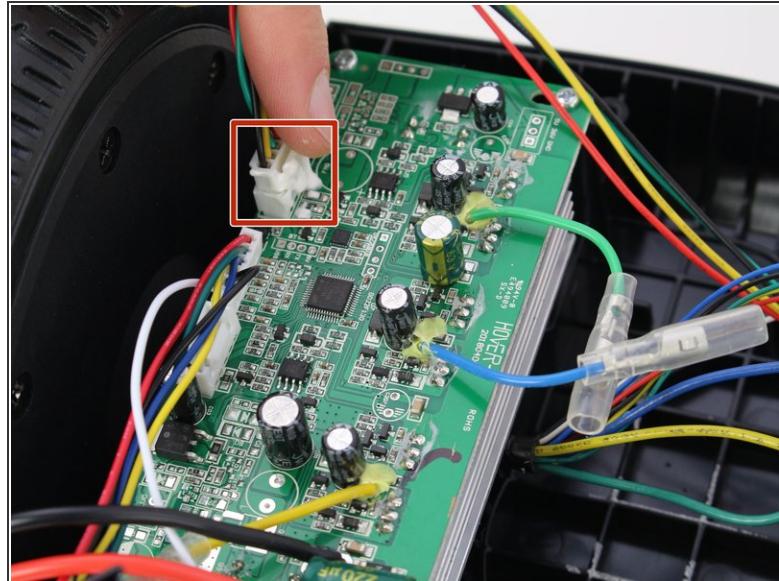
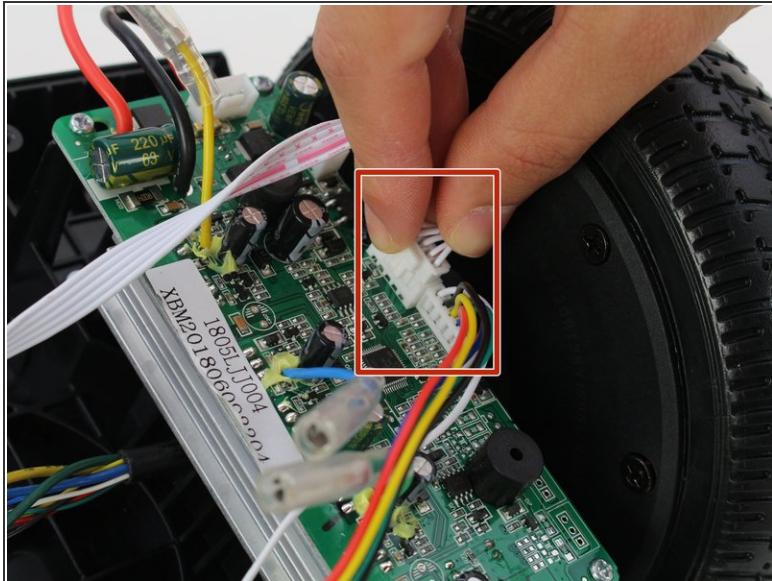
## Step 5



- Remove battery connector by pulling it apart.
- Slide the rubber sheaths away from the connector on the blue, green, and yellow wires.
- Disconnect the colored wires by pulling them apart.

 The large colored wires connecting the sensor boards to the wheels need to match for the motor to operate correctly.

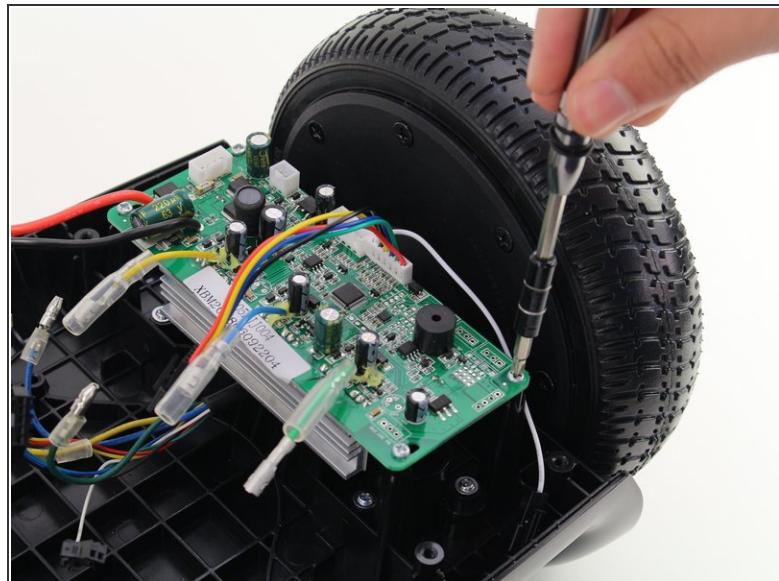
## Step 6



- Remove the white cable from the sensor boards by disconnecting the cable on each side of the hoverboard.

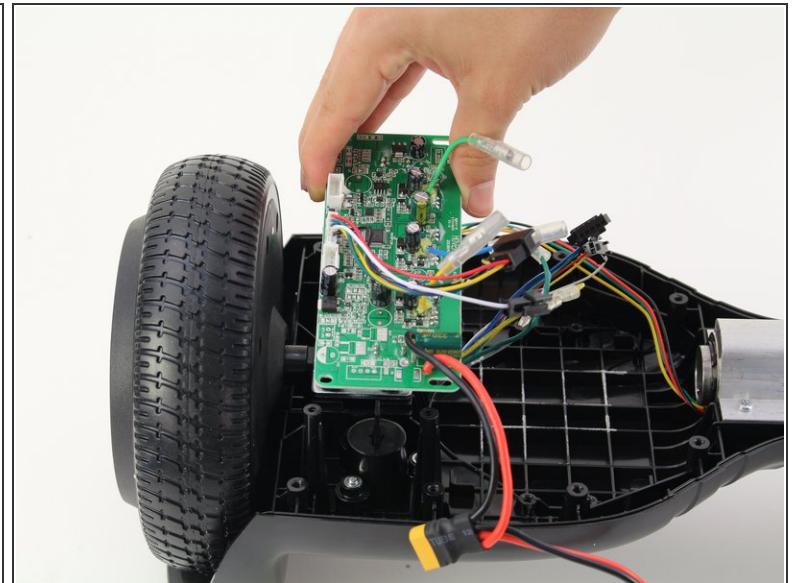
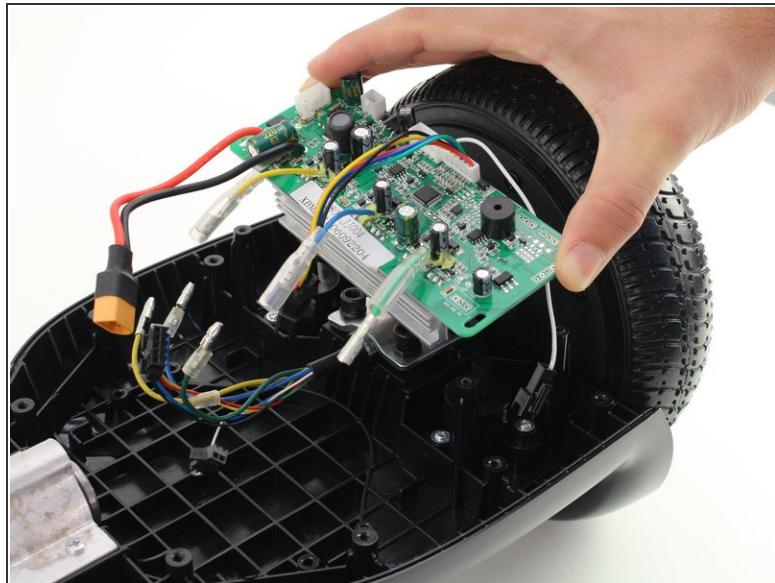
*(i)* To release the cable connector, squeeze the sides while pulling it away from the sensor board.

## Step 7



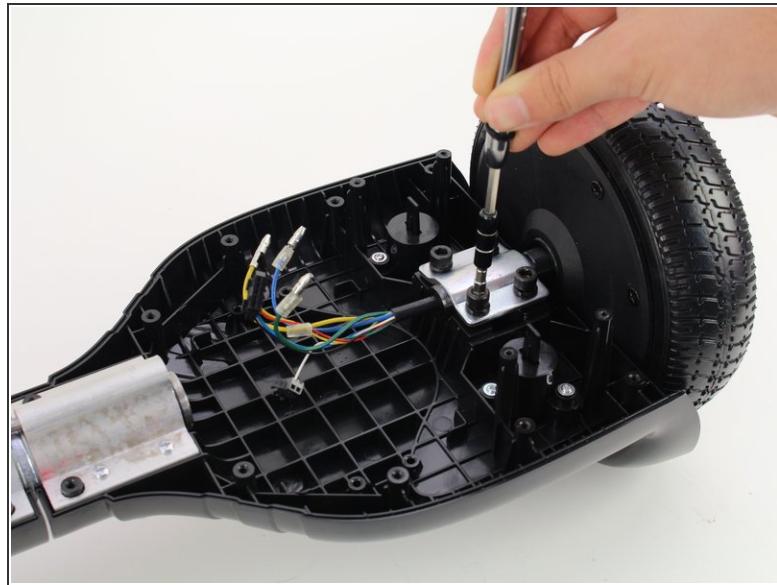
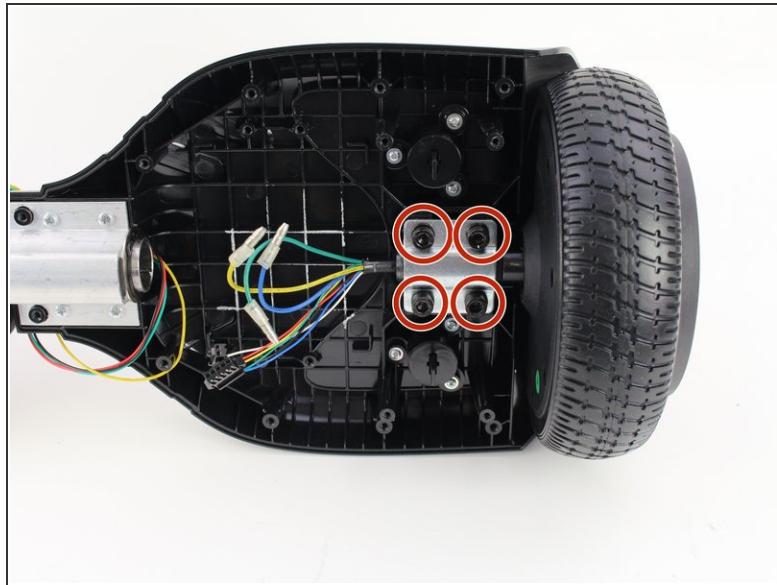
- Remove the four 10mm screws with a Phillips #1 screwdriver.

## Step 8



- Remove the sensor board by lifting it away from the hoverboard.
- ⓘ Repeat steps 4-8 to remove the sensor board from the other side.

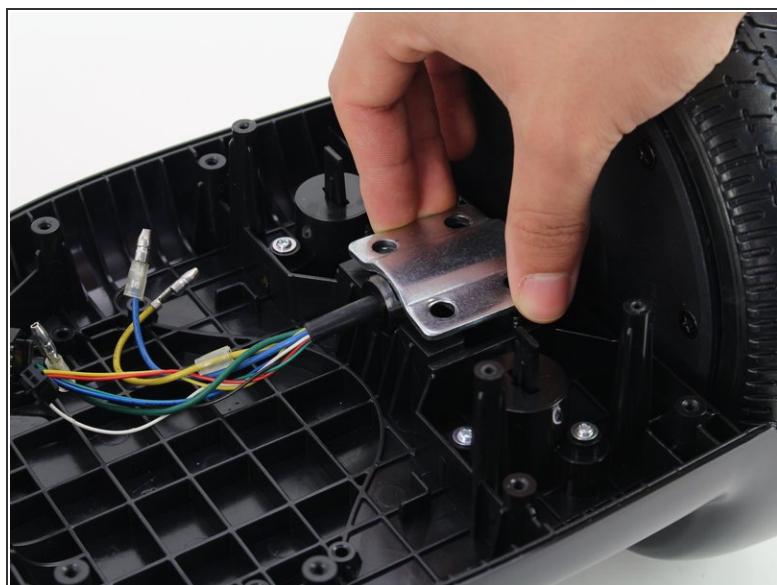
## Step 9 — Wheel Motor



- Place the hoverboard so the four 36mm Allen bolts are pointing up.
- Remove the four 36mm Allen bolts on each side using a 5mm Allen Wrench.

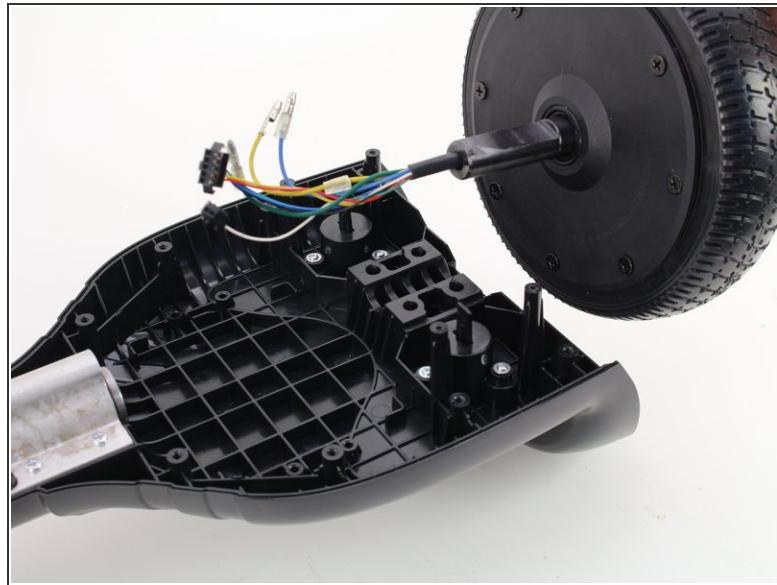
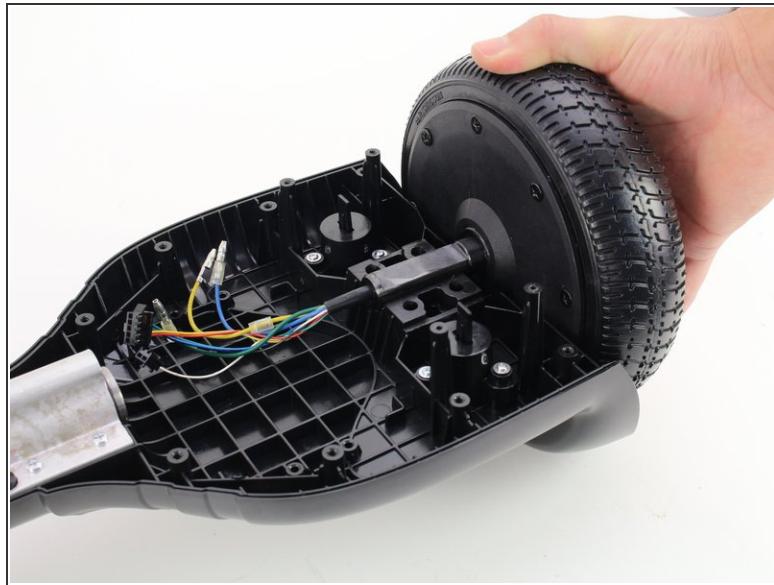
 The four Allen bolts have lock washers.

## Step 10



- Lift the metal retaining plate away from the motor shaft.

## Step 11



- Lift motor assembly away from hoverboard.
- ☒ There is a flat section on the motor shaft that needs to point up, towards metal plate.
- ☒ The motor assembly should be flush with side of hoverboard.

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