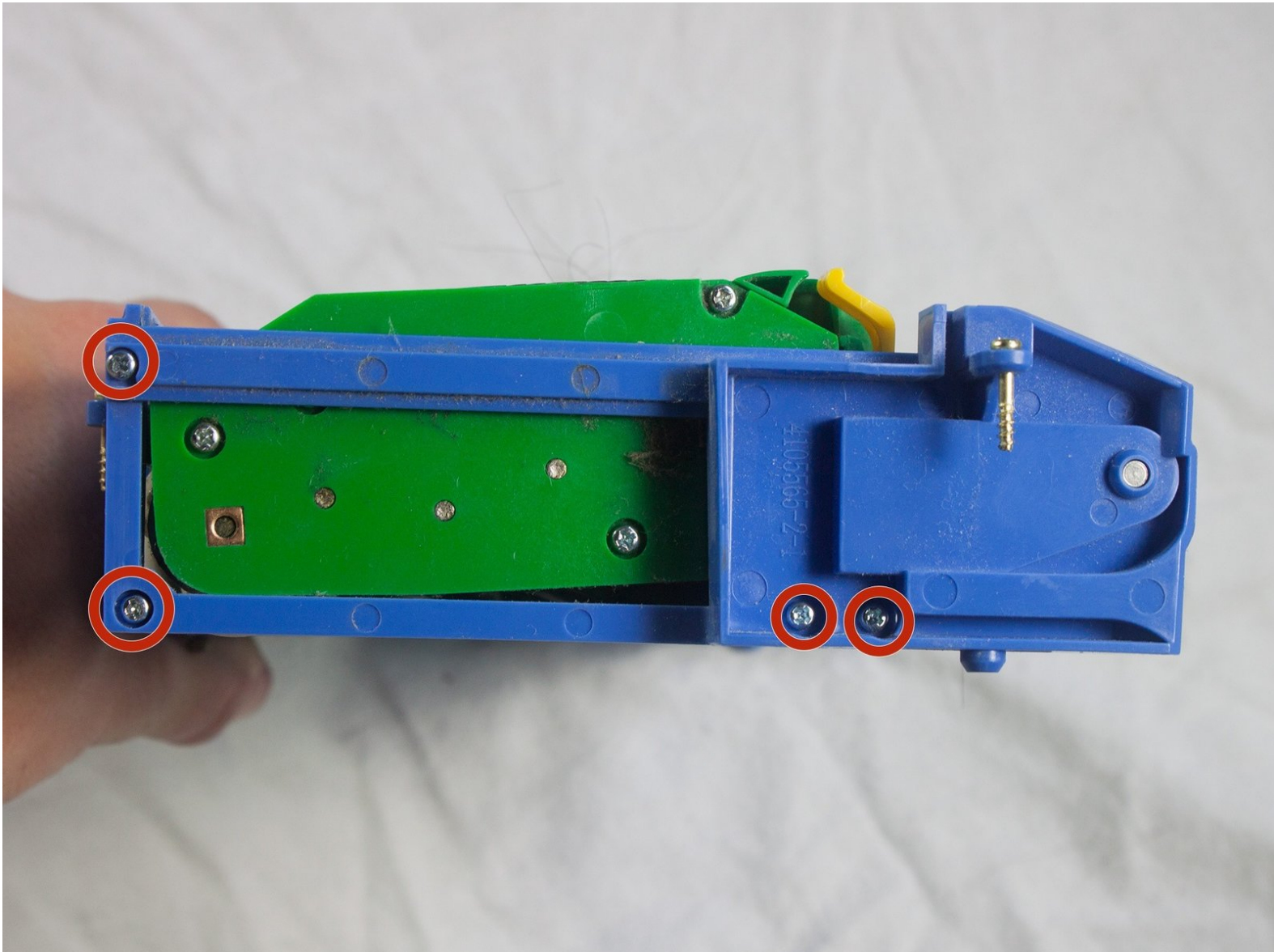# iRobot Roomba 551 Main Brush Motor Replacement

Remove the main brush motor from your Roomba.

Written By: John McTigue

INTRODUCTION

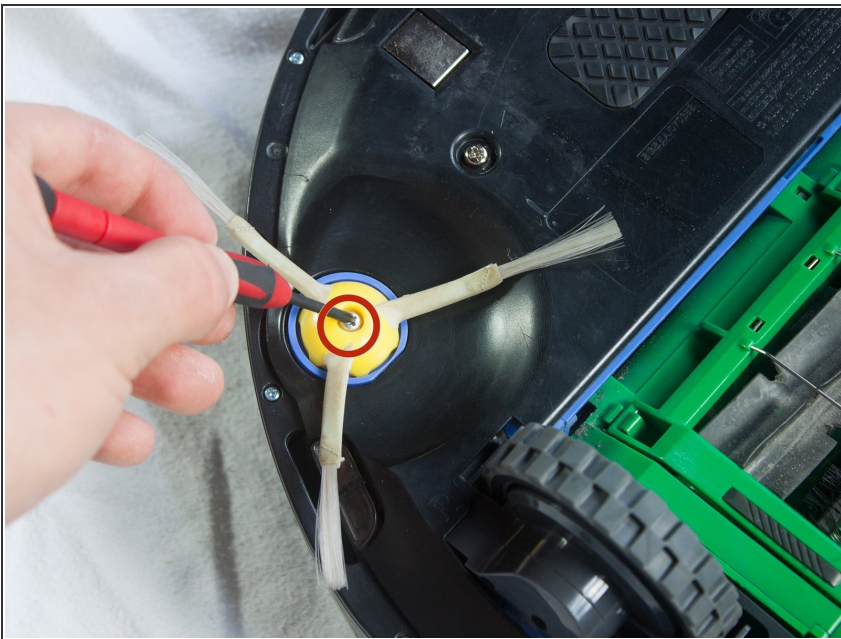This guide explains how to remove the main brush motor from your Roomba.

🔧 TOOLS:

- Phillips #1 Screwdriver (1)
- Phillips #2 Screwdriver (1)

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Step 1 — Side Brush

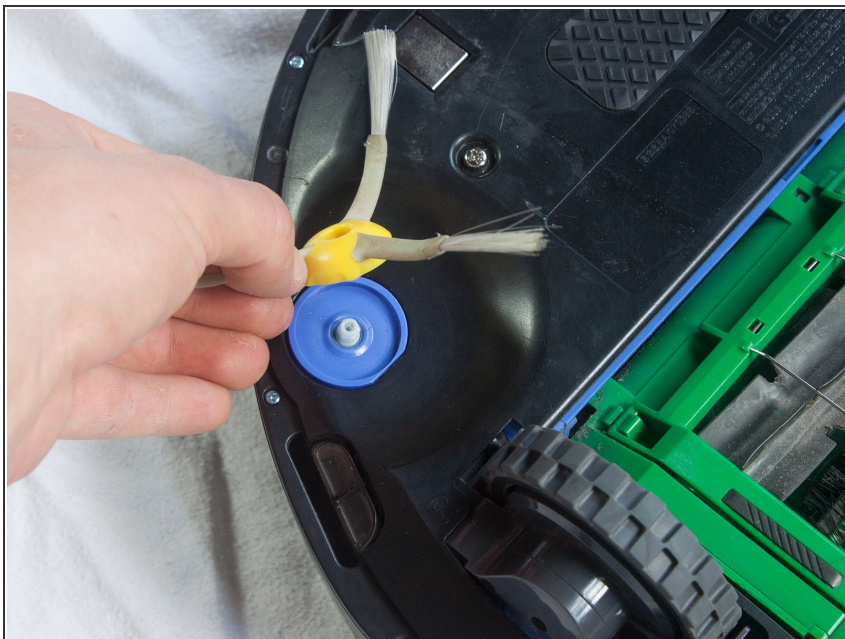

- Place your Roomba upside-down on a hard surface.

Step 2

- While holding the side brush in place, use a Phillips #1 screwdriver to remove the 4.5mm screw from the center of the brush.
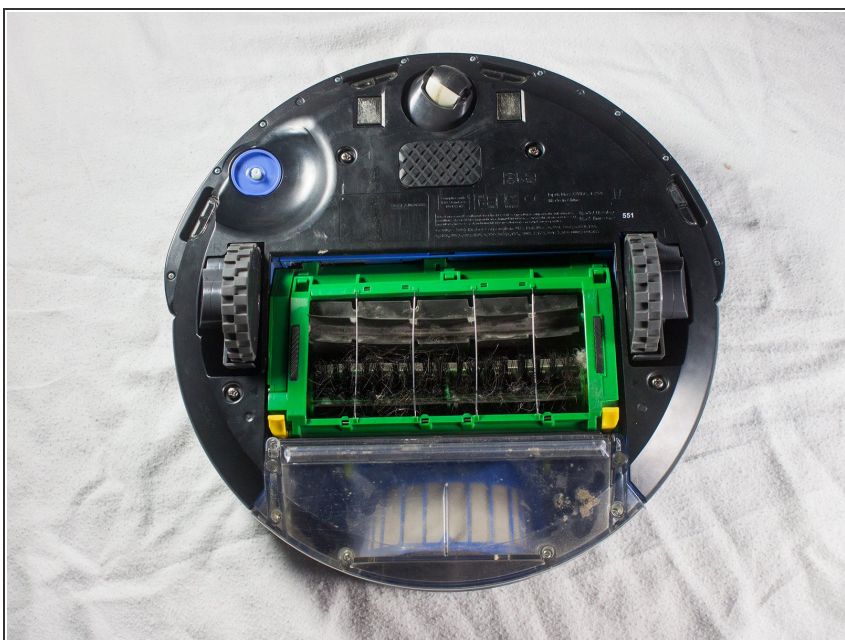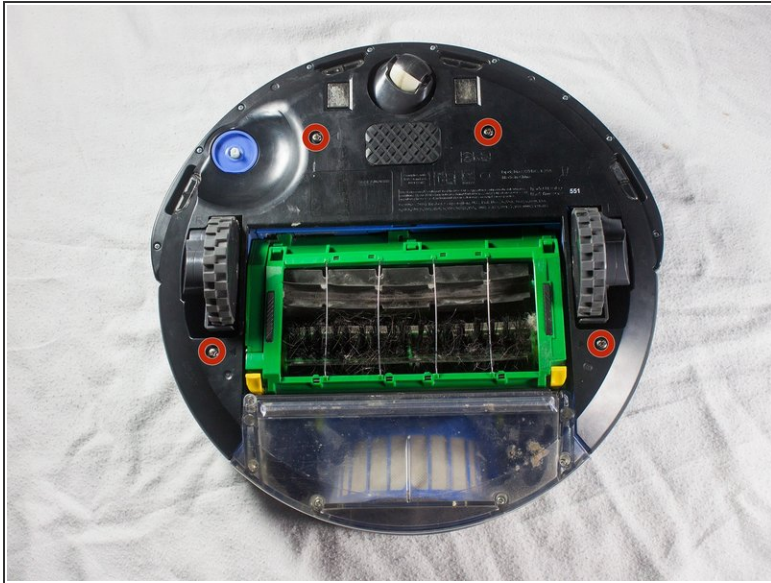
Step 3

- Gently pull upwards on the brush to remove it.

Step 4 — Bottom Plate

- Rotate the Roomba upside-down so the bottom is facing towards you.

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Step 5

- Using a Phillips #2 screwdriver, remove the captive screws that hold the bottom plate in place.

Step 6

- Carefully lift the bottom plate.

- ⚠ The battery is only secured in place by the bottom plate, and may fall out once the bottom plate is removed.
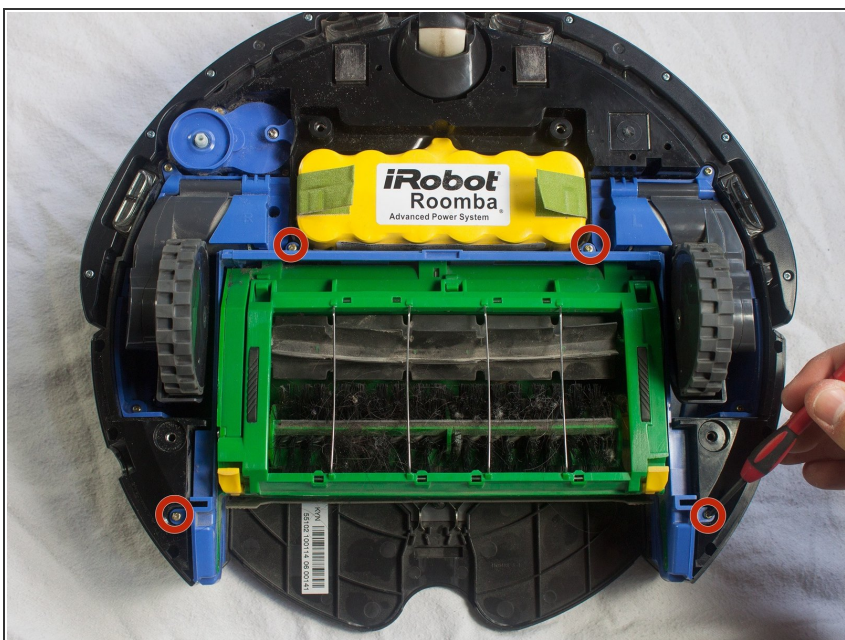
Step 7 — iRobot Roomba 551 Dirt Bin Replacement

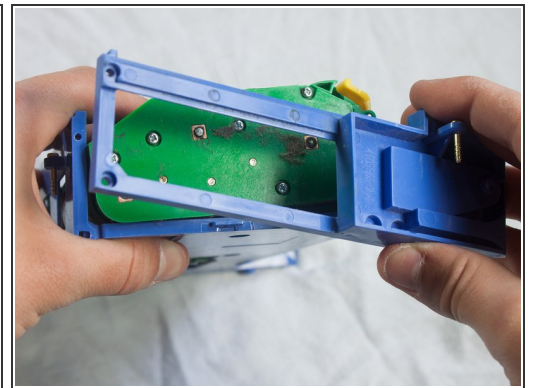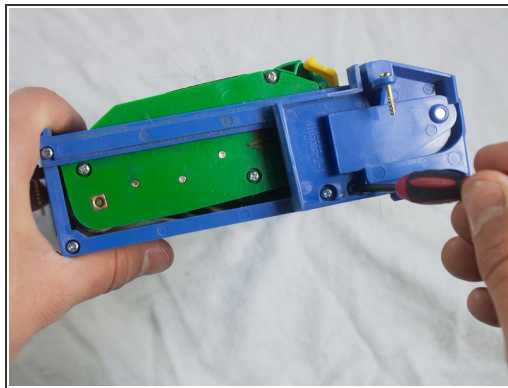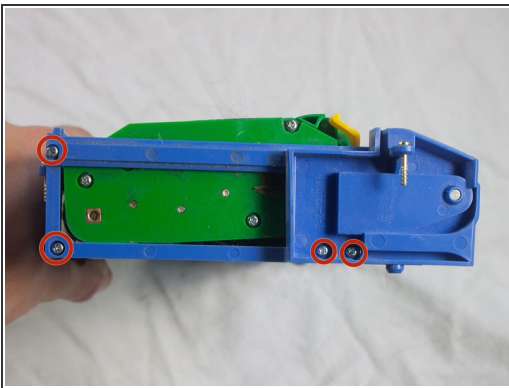- Push on the dirt bin release button, and pull gently.

Step 8 — Brush Case

- Use a Phillips #1 screwdriver to loosen the 4 captive screws around the case .

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Step 9
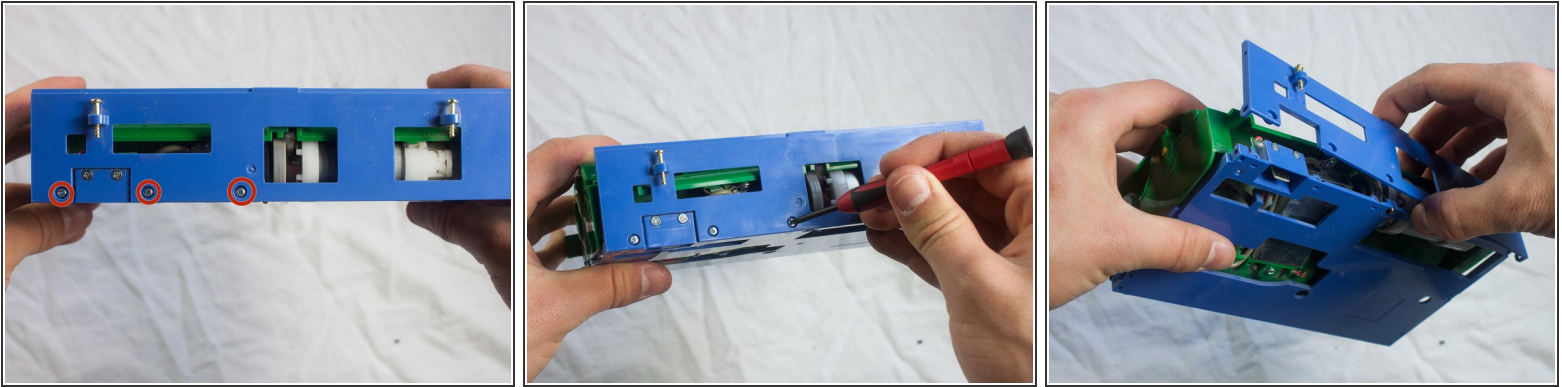

- Grab the brush case and pull upwards to remove.

Step 10 — Main Brush Motor

- Use a Phillips #1 screwdriver to remove the 9.5mm screws from the side of the brush case, and pull to detach.

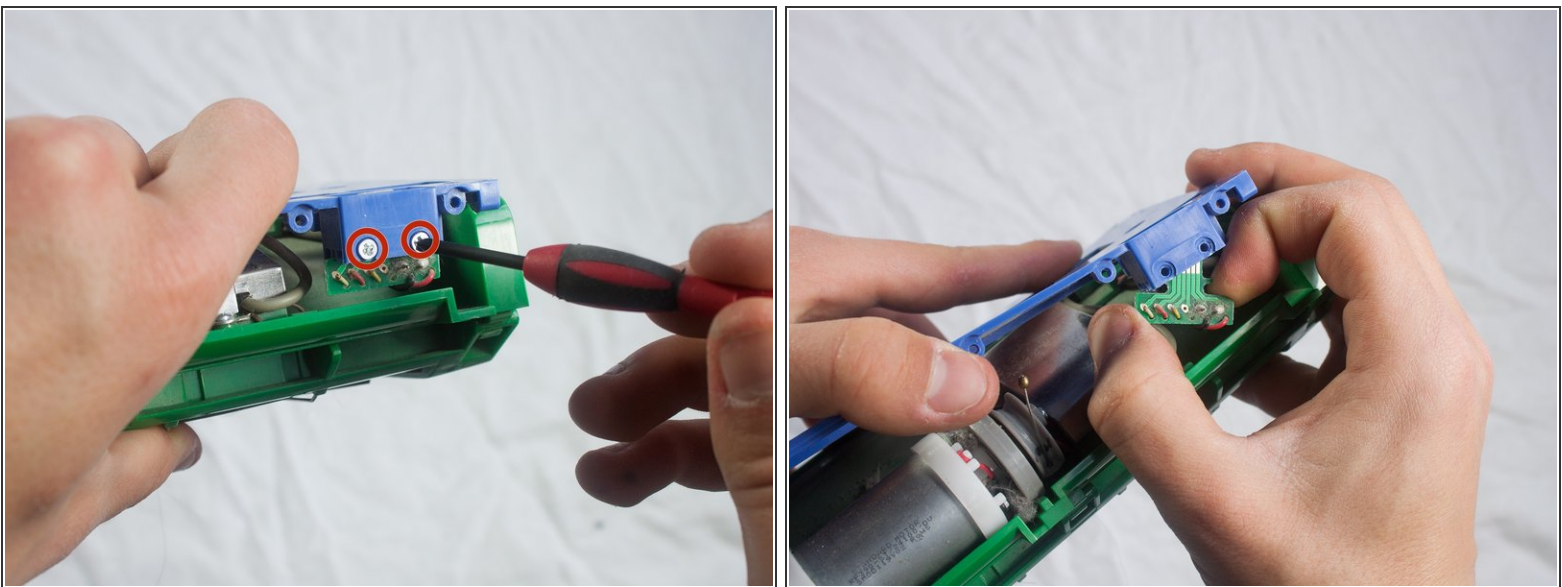- Repeat for the opposite side of the brush case.

Step 11

- Use a Phillips #1 screwdriver to remove the three 5.0mm screws from the back of the brush case.
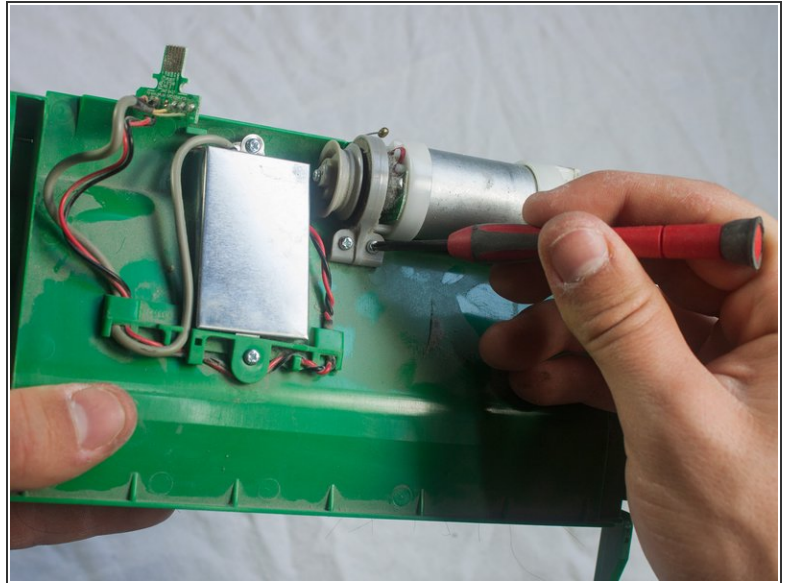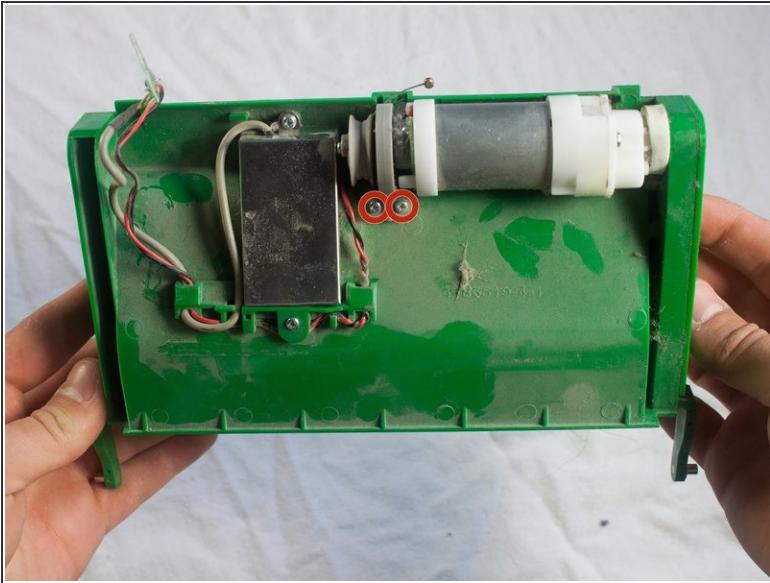
- Pull off the back of the brush case.

Step 12

- Use a Phillips #1 screwdriver to remove the two 1.5mm screws securing the chip in place.

- Remove the chip from its housing in the blue brush case.

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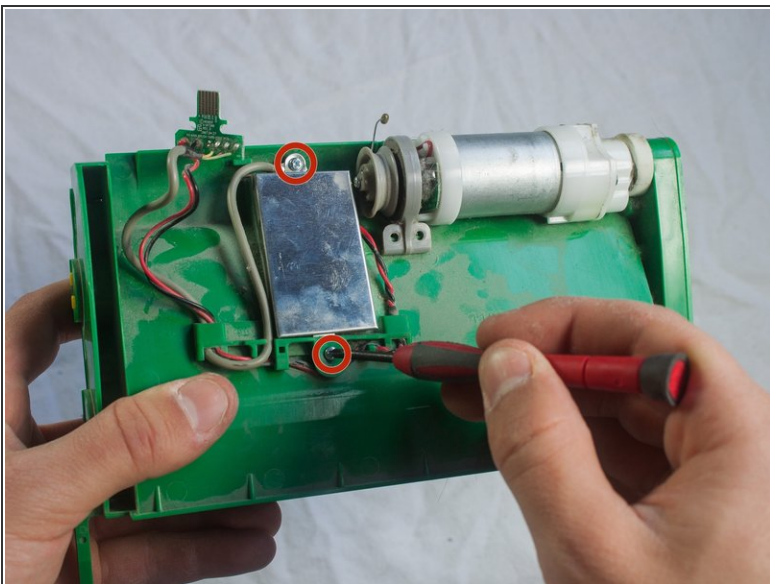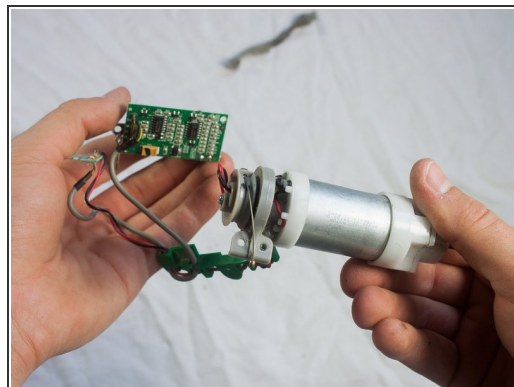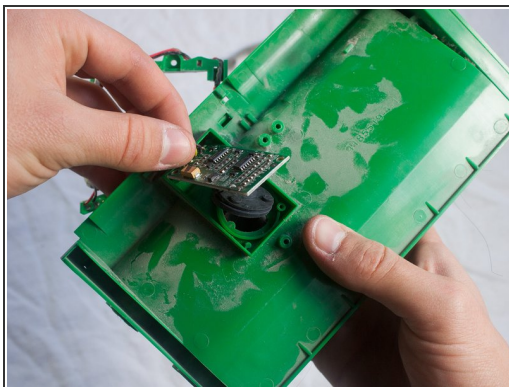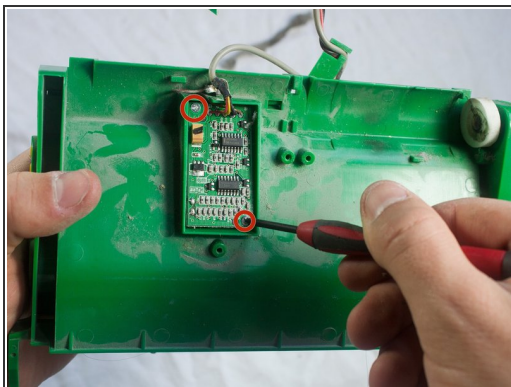
Step 13

- Use a Phillips #1 screwdriver to remove the two 5.5mm screws securing the motor in place.

Step 14

- Use a Phillips #1 screwdriver to remove the two 4.5mm screws on the top and bottom of the metal plate.

- Pull out the motor and metal covering.

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Step 15

- ● Use a Phillips #1 screwdriver to remove the two 3.5mm screws on the corners of the circuit board.

- ● Gently pull out the circuit board.

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