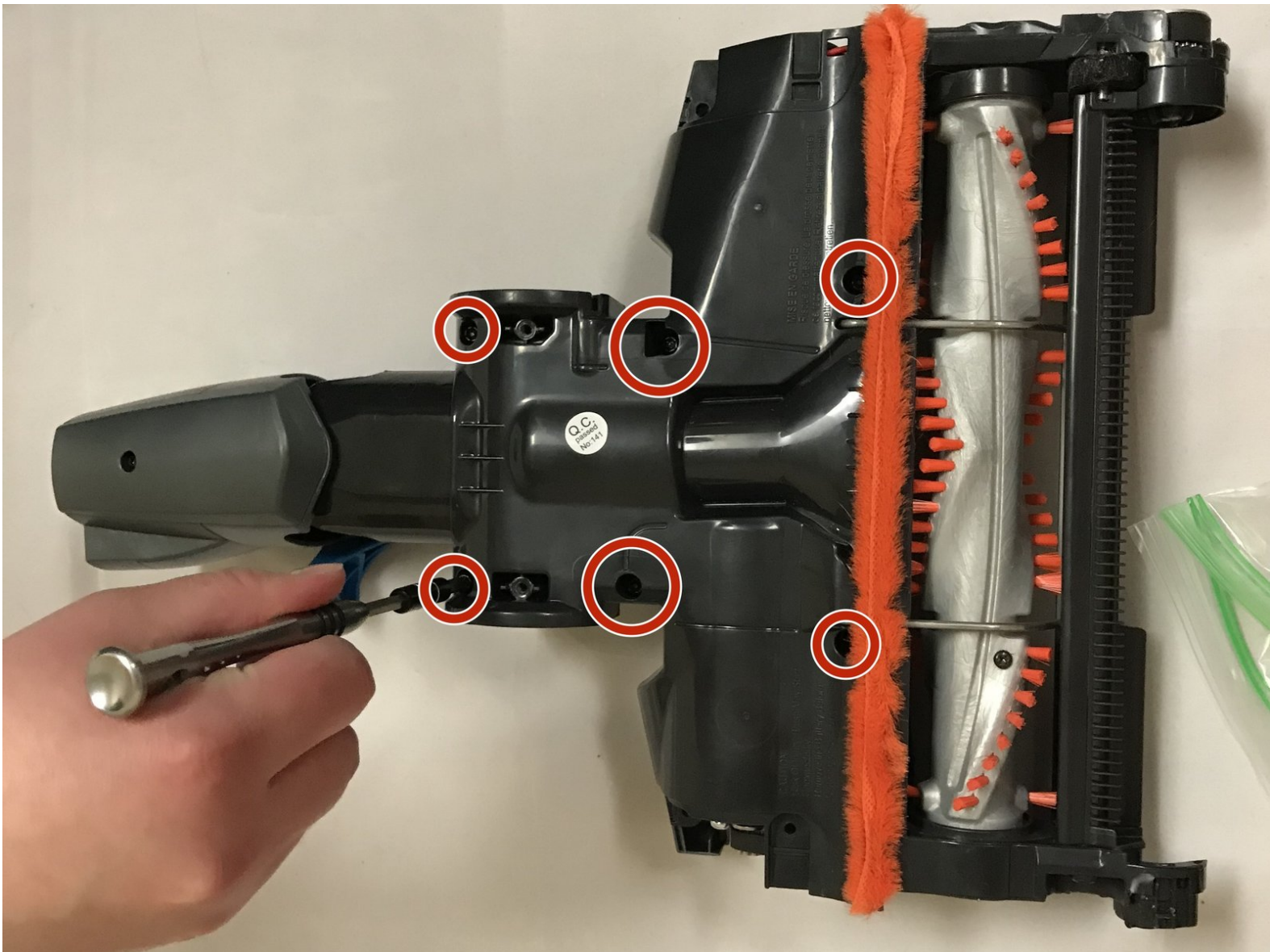




# Shark IONFlex 2X Motherboard Replacement

This guide will show you how to safely remove the motherboard from your Shark IONFlex 2X.

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## INTRODUCTION

This replacement guide uses a metal spudger, T20 Torx screwdriver, and a large plastic opening tool. This guide will show the user how to open the device casing, access the motherboard, and replace the motherboard.

**CAUTION:** Use care when using the metal spudger, as the edges of the tool are sharp and can cut you if you are not careful.



### TOOLS:

- [Metal Spudger](#) (1)
  - [T20 Torx Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
  - [Large Needle Nose Pliers](#) (1)
  - [Flush Wire Cutters](#) (1)
  - [T10 Torx Screwdriver](#) (1)
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## Step 1 — Brush Roll Band



- Press and slide the “access brush roll” buttons towards the text and lift plastic brush roll cover off.

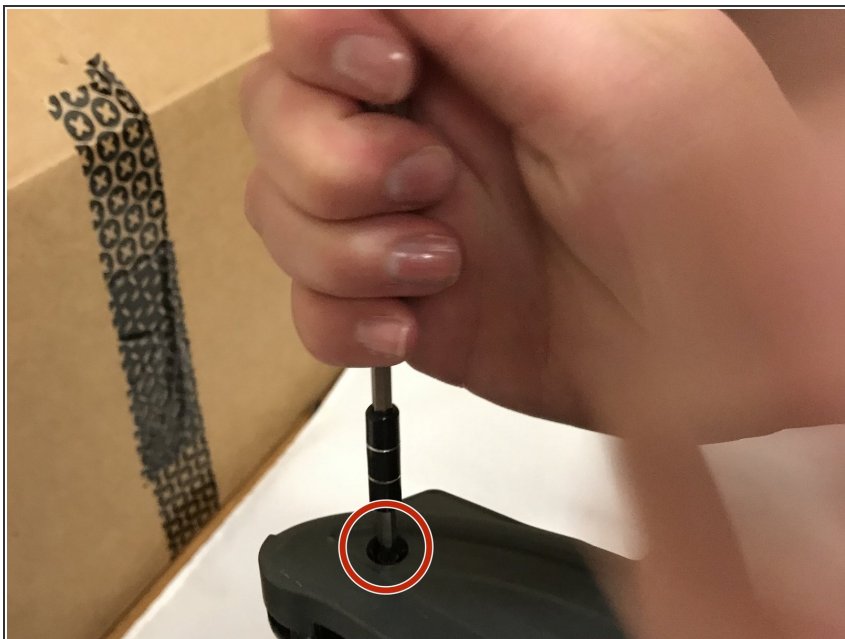
## Step 2



- Gently pry the circular screw cover off of the side of the casing with the shoe print mark on it with the small metal spudger.



### Step 3



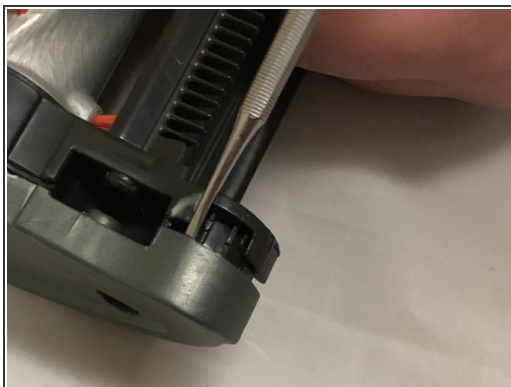
- Use a T20 screwdriver to unscrew the 12.3 mm screw beneath the cover you just removed.

### Step 4



- Move to the side of the casing with the shoe print mark. Use the T20 screwdriver to unscrew the 18mm screw.

## Step 5



- Use the small metal spudger to gently separate the side casing from the main body.

## Step 6



- Use the large plastic opening tool to pry the rubber brushroll band towards you until the rubber brush roll band comes off of the small metal gear.



## Step 7



- Pull the rubber brush roll band out of the large white gear.

## Step 8 — Motherboard



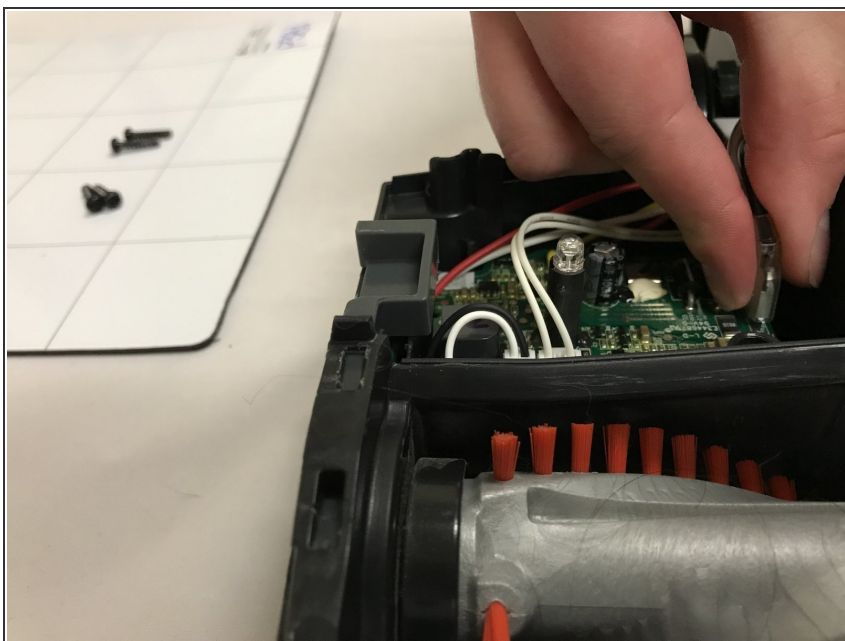
- Unscrew the six 18.7mm screws in the bottom casing using a T20 screwdriver.

## Step 9



- Turn over the machine and lift the top casing off.

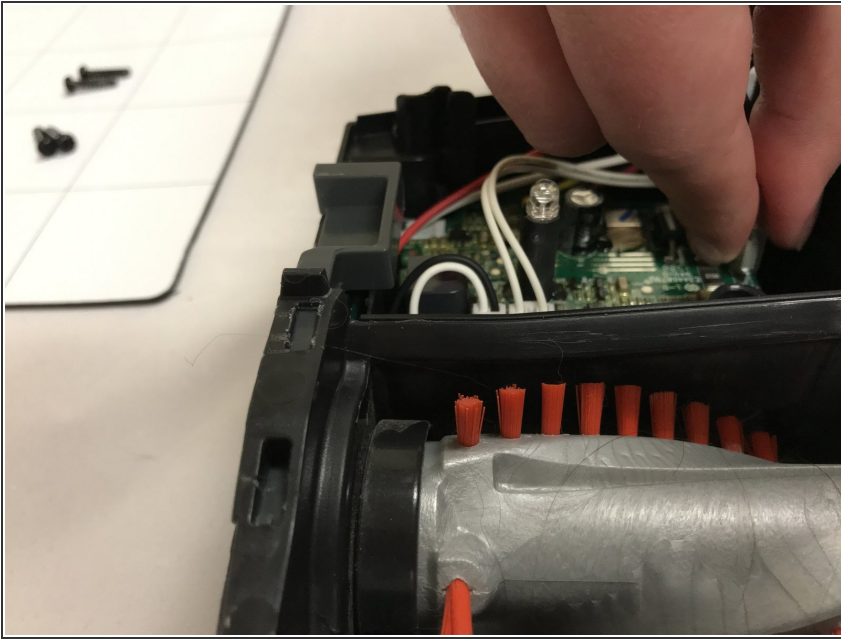
## Step 10



- Remove the large black plastic plug using your fingers and/or long nose pliers.

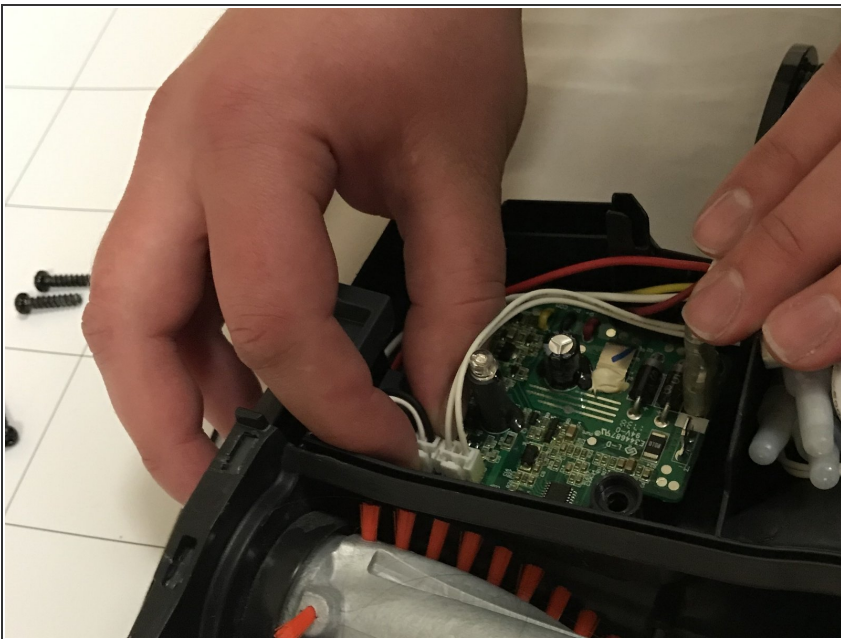


## Step 11



- Remove large white plastic plug using your fingers and/or long nose pliers.

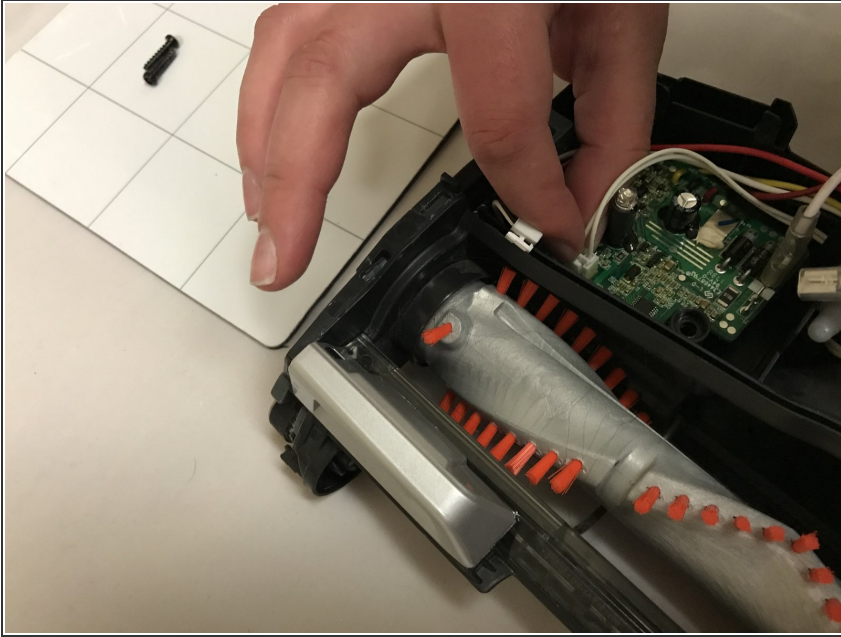
## Step 12



- Squeeze tabs and remove small white plug with two white wires coming out of it.

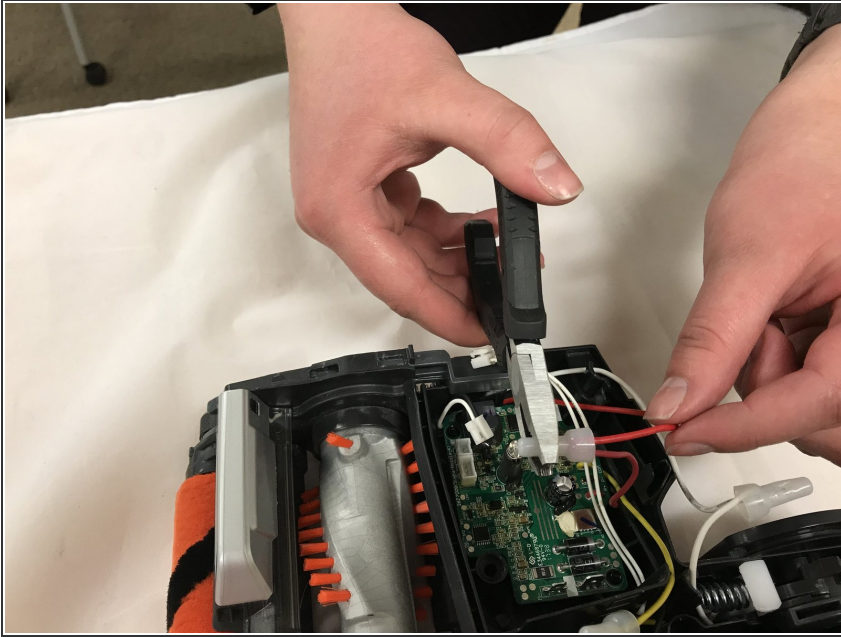


## Step 13



- Squeeze tabs and remove small white plug with white and black wires coming out of it.

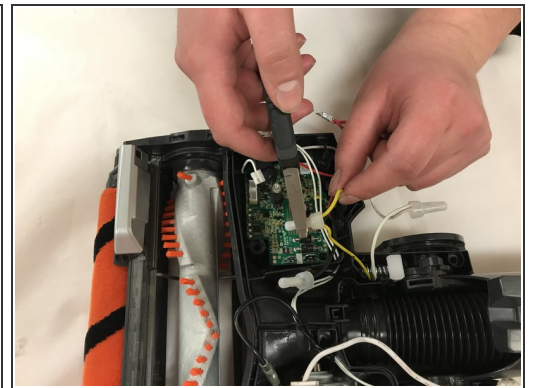
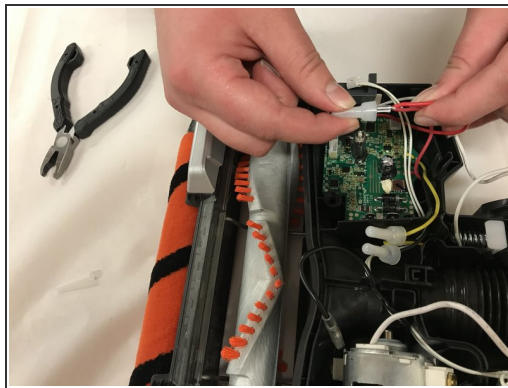
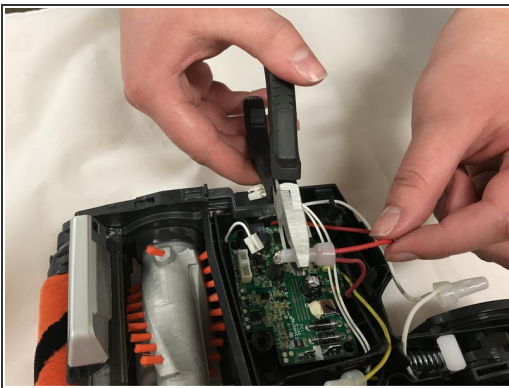
## Step 14



- Squeeze the three plastic caps enclosing the crimped connection of the red, black and yellow wires extending outward from the motherboard to release the wires from the grip of the plastic caps.

**i** You may have to adjust how you are squeezing the plastic caps to get the connection to release.

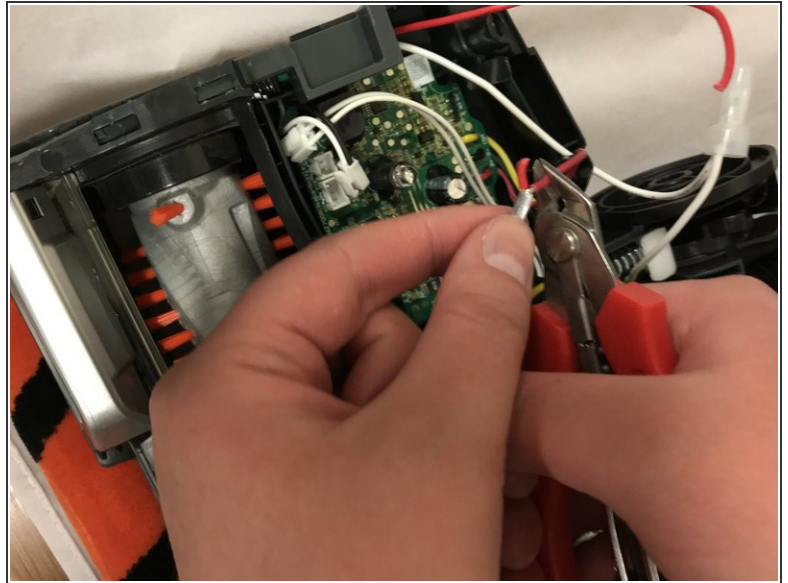
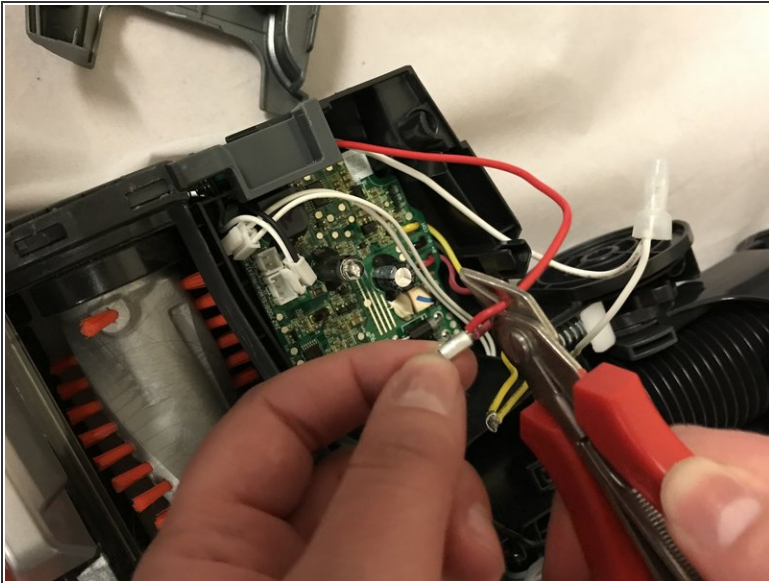
## Step 15



- Remove the caps from the red, black and yellow wires to expose the three metal clamps.

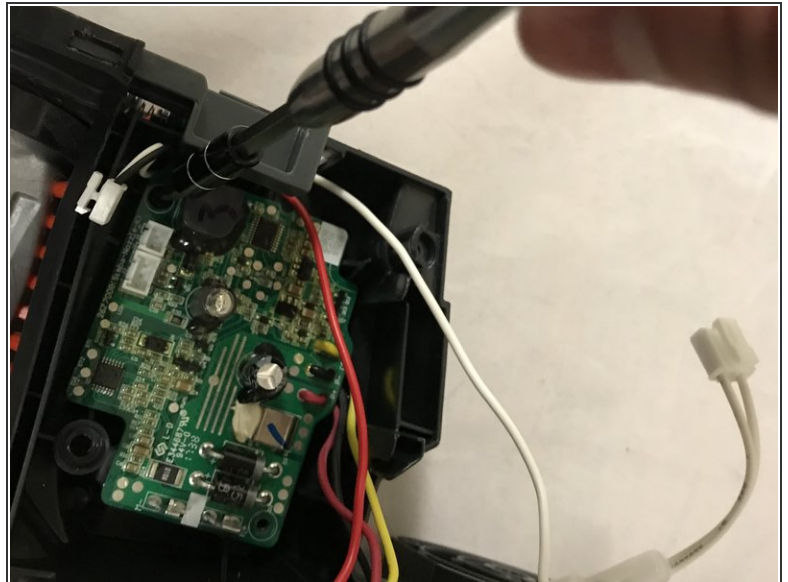
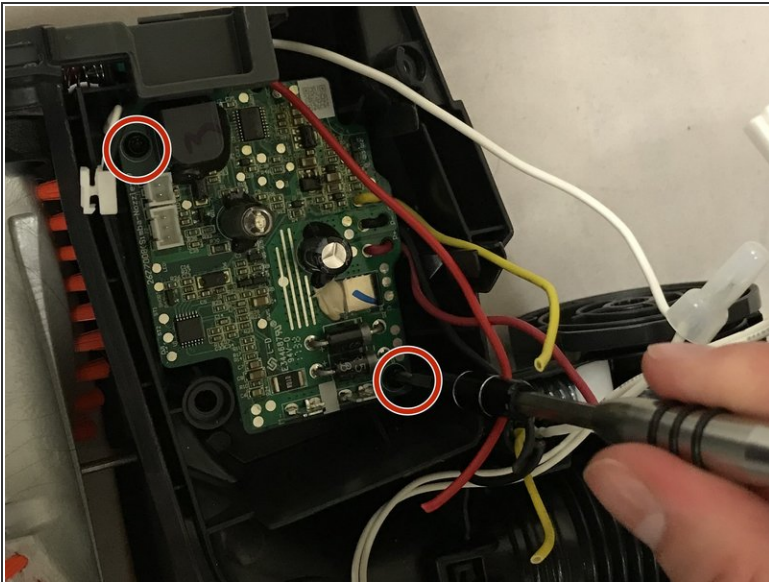


## Step 16



- Cut the red wires extending beneath the metal clamp, right below the metal clamp holding the two wires together. Repeat process for black and yellow wires.

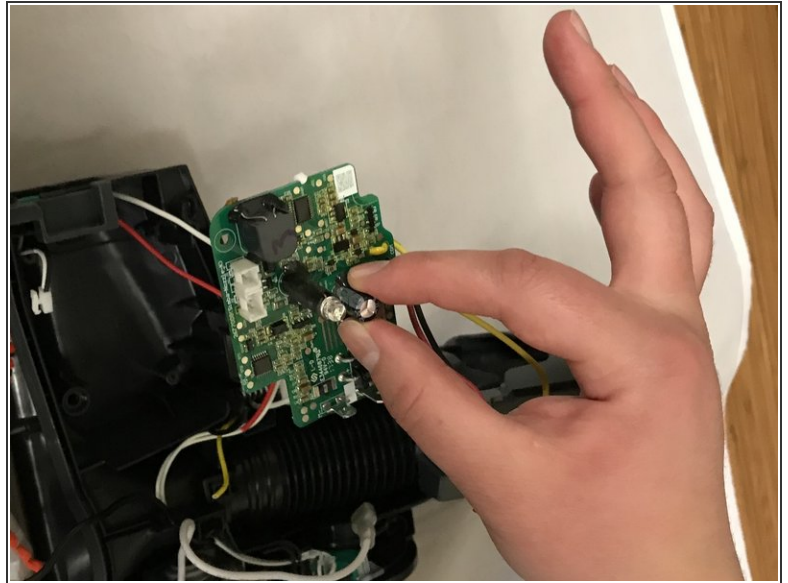
## Step 17



- Unscrew the two 11.8mm screws in the motherboard using a T10 screwdriver.



## Step 18



- Remove the motherboard.

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