Parrot Mambo (PF727001) Motor Replacement

Disassembling the quad to replace a broken motor

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INTRODUCTION

I've got a Parrot Mambo that flew itself into the ground a little too hard. My friend brought it to me to see if I could remedy a solution. What I found was that the brushed motor had been completely ripped from its contacts; thus leaving no option but to replace it.
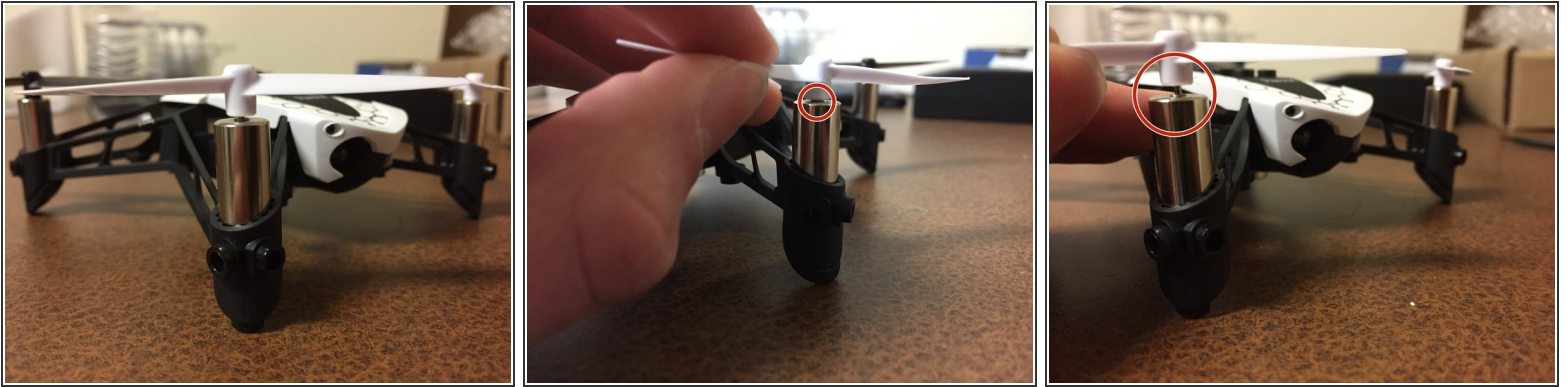
TOOLS:

- T4 Torx Screwdriver (1)
- Spudger (1)

PARTS:

- PF070235 Type A Brushed Motor (1)
- PF070235 Type C Brushed Motor (1)

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Step 1 — Defective Motor

- This motor is the defective one. The motor shaft is allowed to move freely up and down. Mine was the front right motor.

Step 2 — Remove Rubber Foot

- Flip quadcopter over to its underside

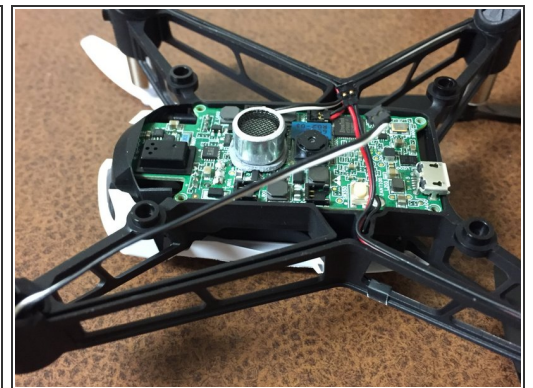- Use spudger or your fingernail to get underneath the rubber foot.
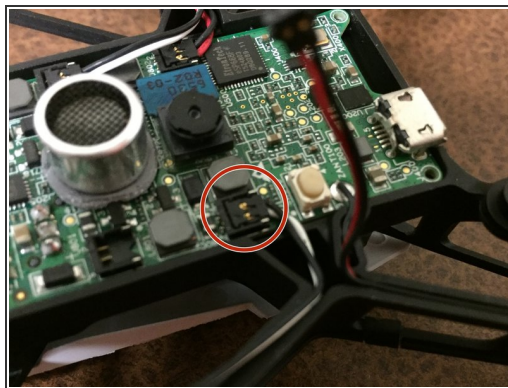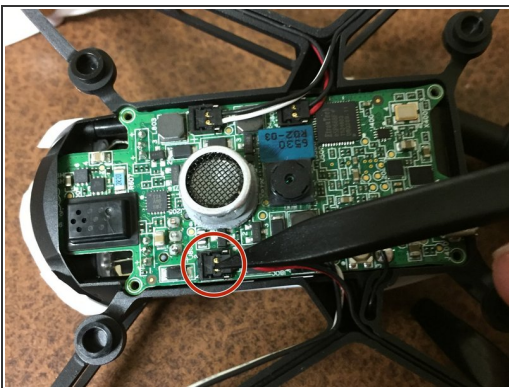
- Remove rubber foot

Step 3 — Remove Electronics Housing

- Use the T4 driver to remove 4 screws.

- Gently lift up the panel starting from the rear of the quad, and unhooking from the lip on the front.

Step 4 — Disconnect Motor Wires

- You will now disconnect the motor wires that correspond to the motor you are replacing. I had to disconnect the rear right in order to correctly rewire the front right motor.

- Pull gently on the wire and use the spudger to pop the connector out of its socket

- Pull wires free from board

Step 5 — Motor Removal

- Grasp the motor you want to remove in one hand and the frame in the other and pull firmly to pull the motor out.

- My motor did not work because the contacts were broken in the crash. Thus, the motor separated from its contacts.

Step 6

- Use the spudger to remove the base of the motor by pushing it through the top.

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

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