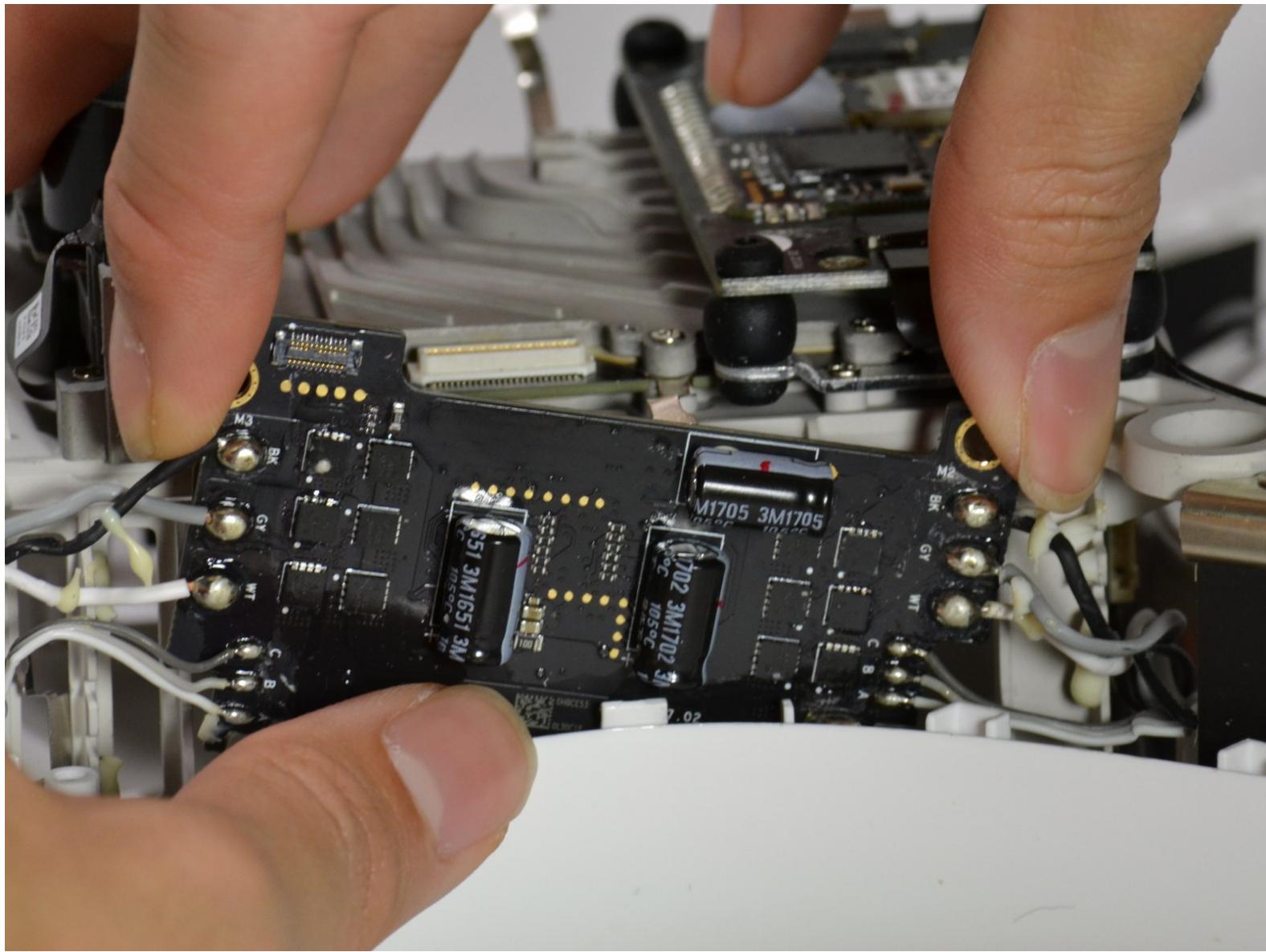




DJI Phantom 4 Advanced Electronic Speed Controller Replacement

How to replace the electronic speed controller on the DJI Phantom 4 Advanced.

Written By: Nicholas Allen



INTRODUCTION

If the motors are intact but not starting, then there is a problem with the electronic speed controller. Use this guide to replace your damaged electronic speed controller.

TOOLS:

- [2mm Hex Key](#) (1)
- [JIS #000 Screwdriver](#) (1)
- [Soldering Iron](#) (1)
- [Metal Spudger](#) (1)
- [1.5mm Hex Screwdriver](#) (1)

Step 1 — Propeller



- Use your finger tips to pinch the damaged propeller.
- Twist the propeller counterclockwise and pull up to remove.

Step 2 — Shell



- Remove the eight 7 mm hex screws by turning counterclockwise with a 2 mm hex bit.

Step 3



- Pry the LED motor covers off with a metal spudger.
- *i* The prying location is marked by an indent that points outward from the arm.

Step 4



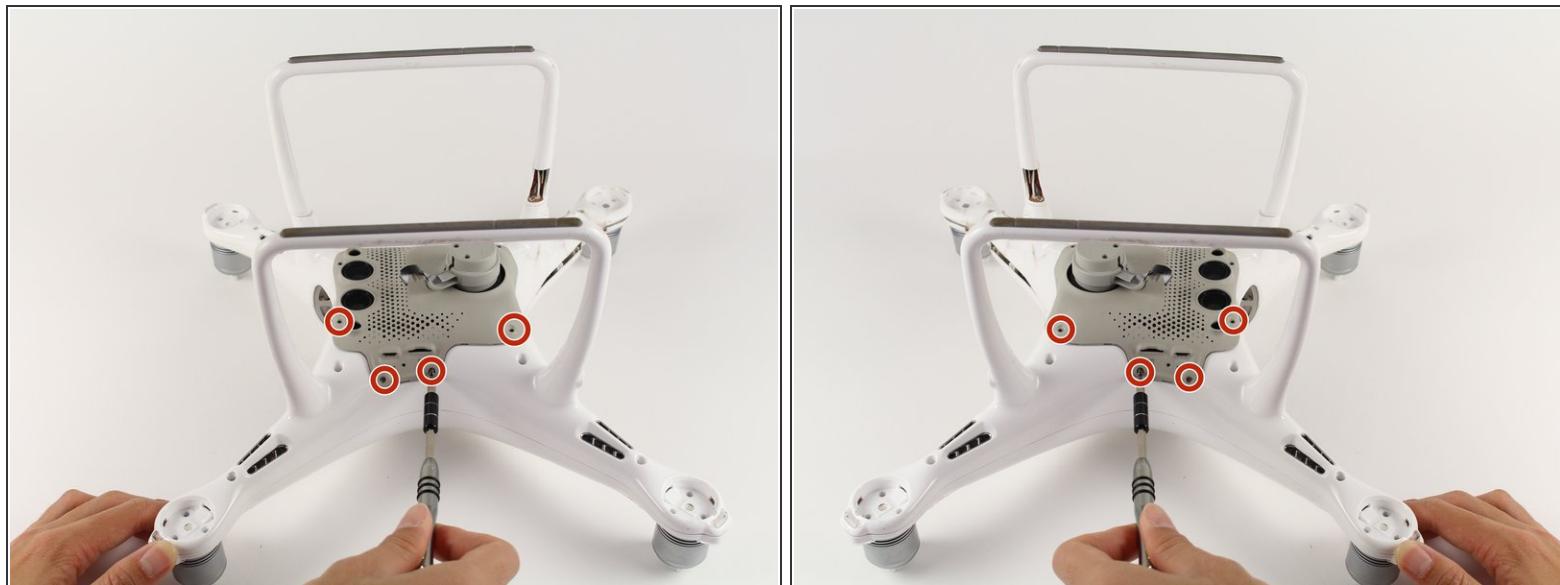
- Pry the paper covering off the four corners with a metal spudger.

Step 5



- Remove the twelve 8.7 mm hex screws with a 2 mm hex bit from the motor bases.

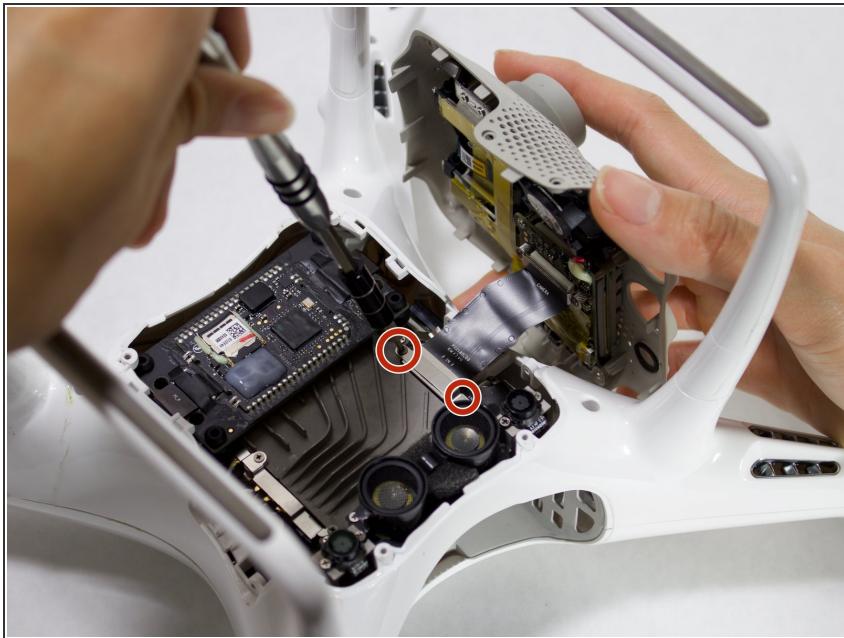
Step 6



- Flip the drone on its back
- Remove the eight 4.5 mm hex screws by turning them counterclockwise with a 1.5 mm hex bit.
- Separate the mesh from the drone by pulling up gently and rocking left to right.

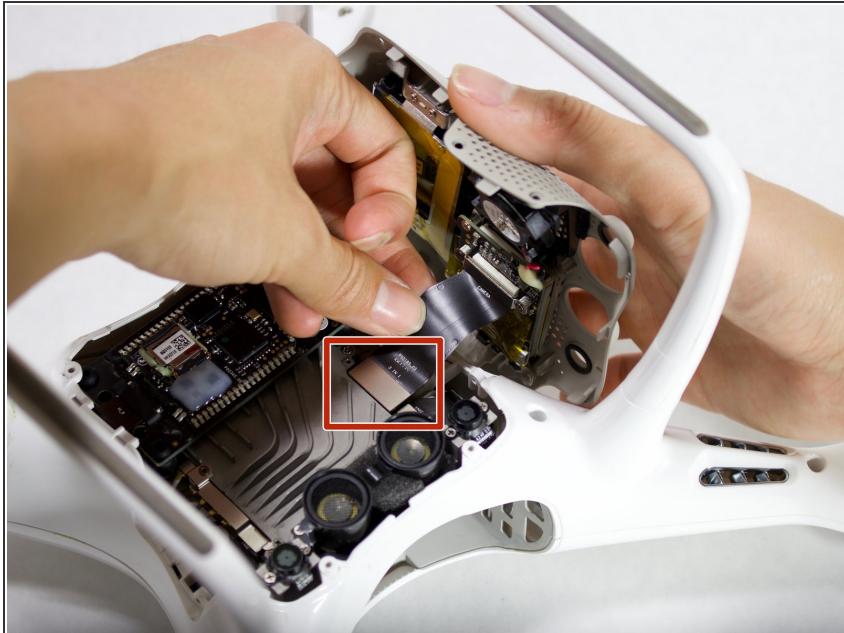
⚠ The cable connects from the camera to the drone. Pulling up could rip the connection. Tilt the mesh 90 degrees towards the cable.

Step 7



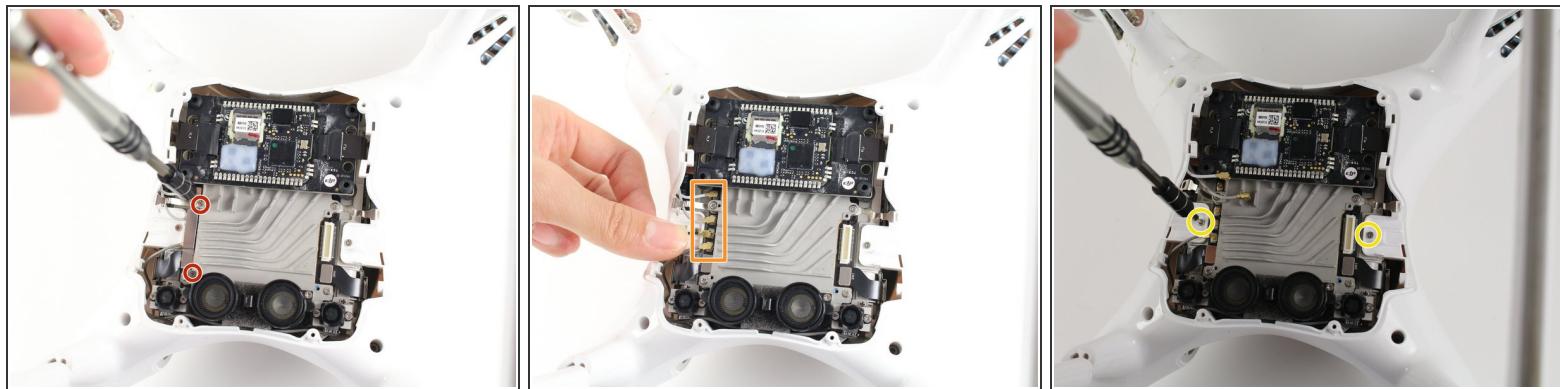
- Remove two 1.2mm screws using the JIS #000 bit from the camera cable retaining bracket.

Step 8



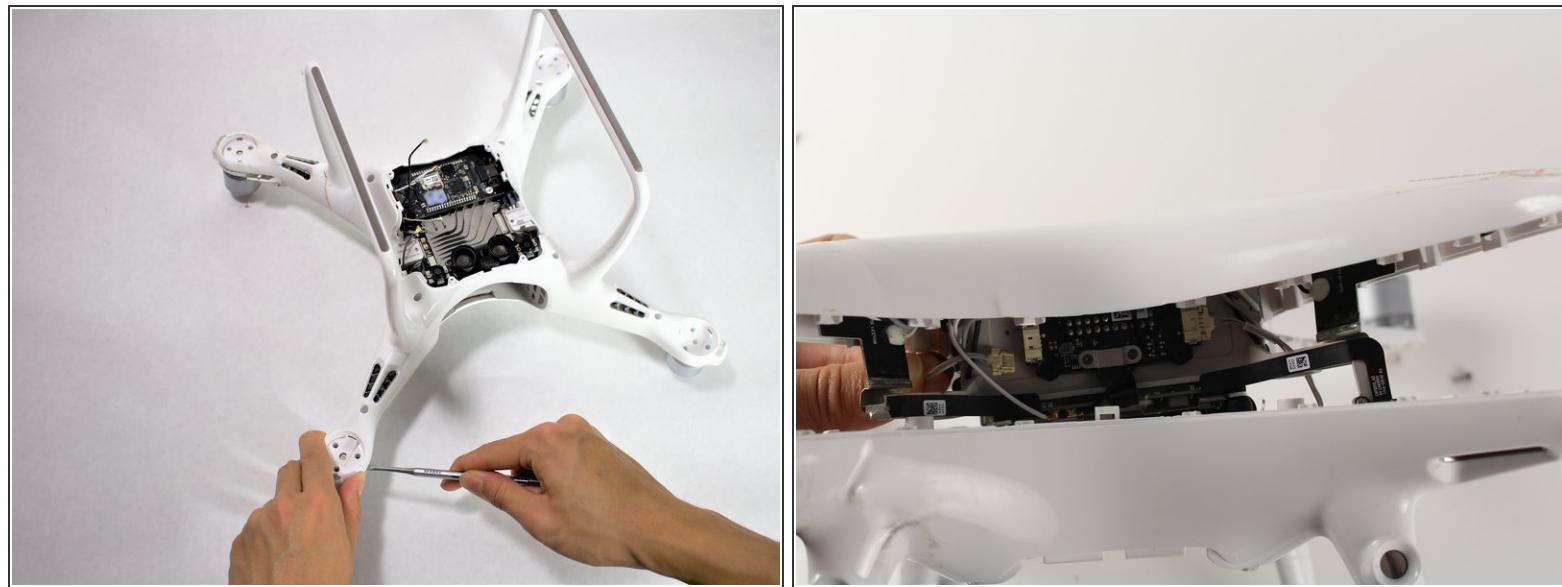
- Lift the camera connector at one end with your hand and remove the mesh.

Step 9



- Remove the two 1.2 mm screws using a JIS #000 bit from the antenna retaining bracket.
 - Pull the four U.FL antennae up.
- ⚠** The U.FL antenna connectors are fragile.
- Remove the two 4 mm screws using a JIS #000 bit.

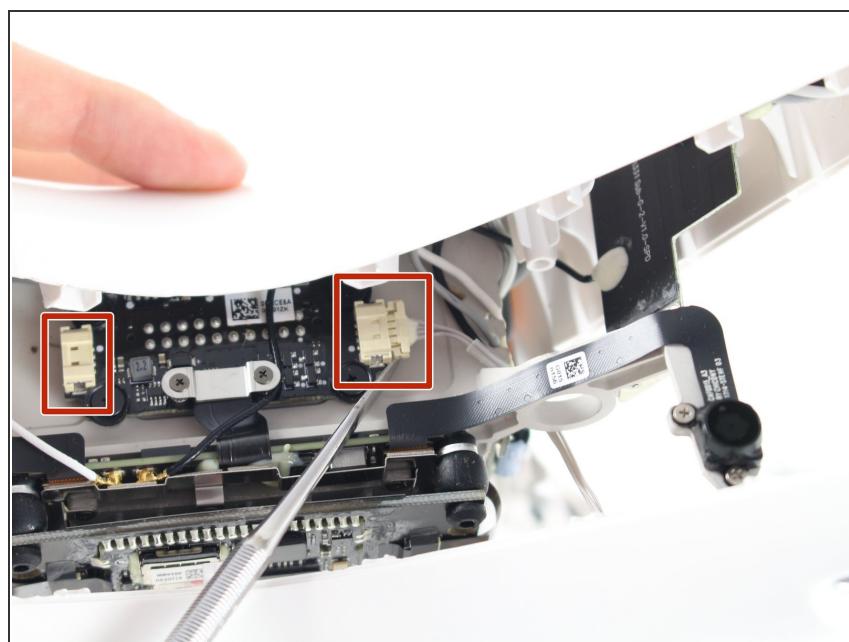
Step 10



- Pry apart the clamshell at the motor end.
- Separate the clamshell.

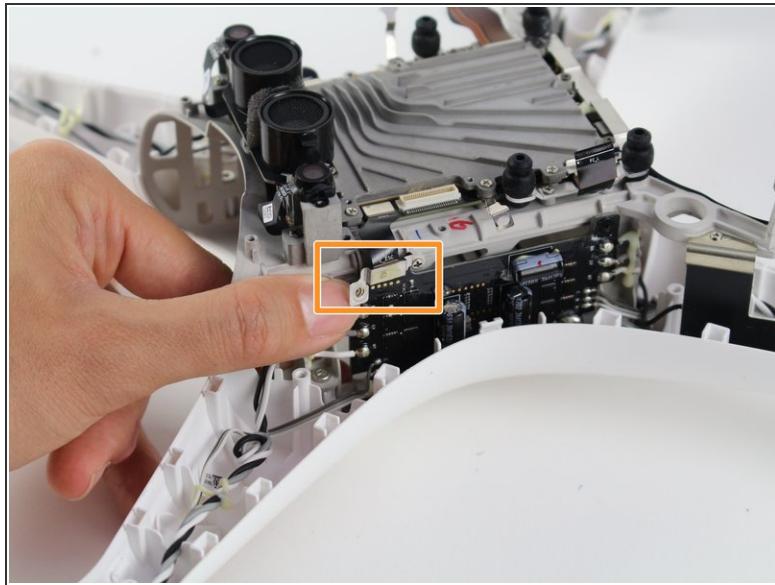
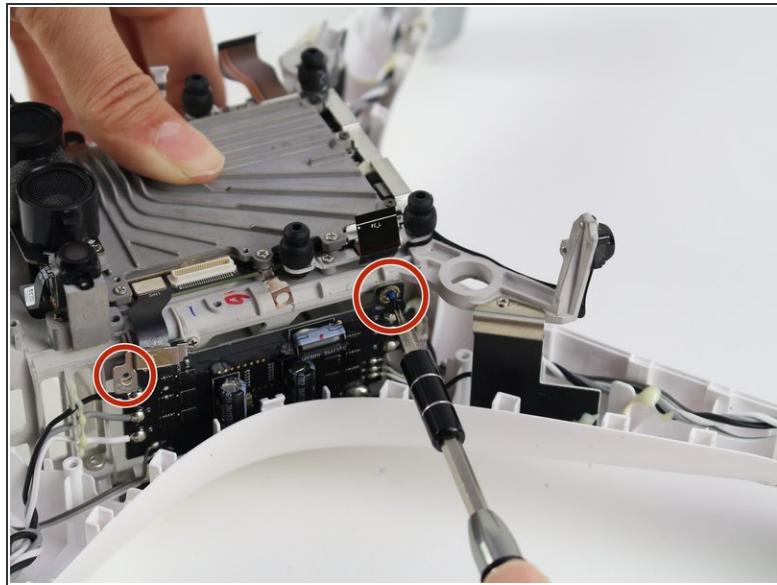
⚠ Two wires connect from the lower frame to the upper frame at the front of the drone. Pulling the clamshell apart hard may damage the connectors and wires.

Step 11



- Press the connector tabs with a spudger and pull on the wire simultaneously.
- Remove the shell from the rest of the drone.

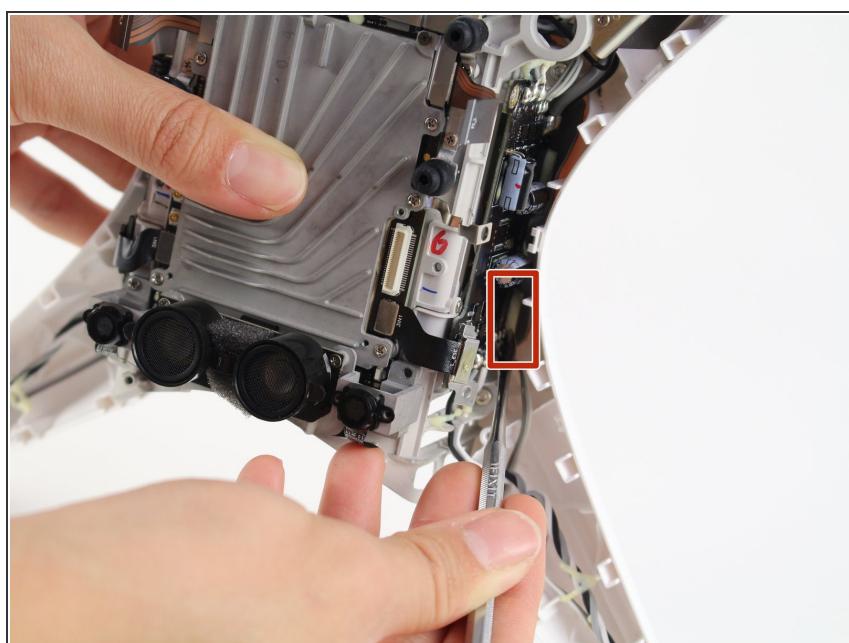
Step 12 — Electronic Speed Controller



- Remove the two 4 mm screws using the JIS #000 bit.
- Flip the metal bracket to the right and slide up.

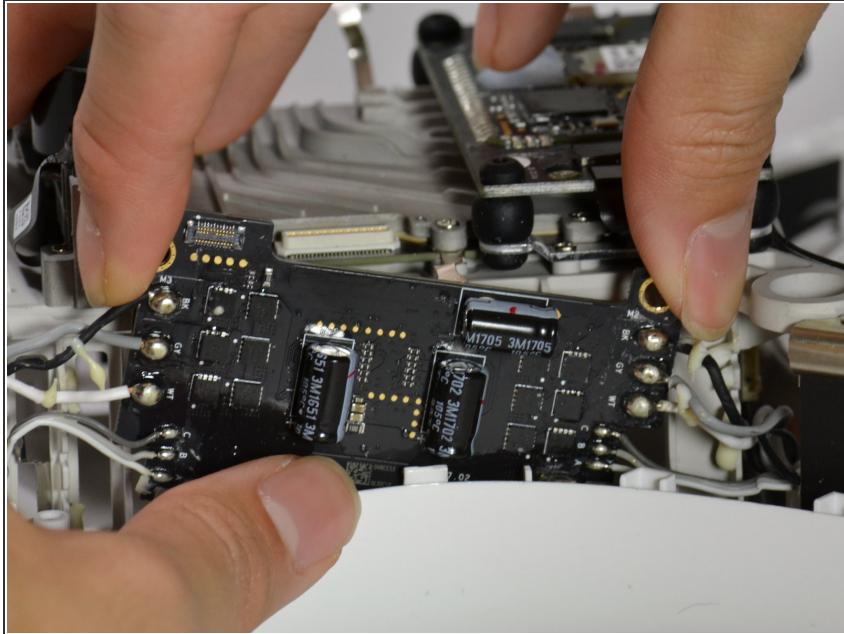
⚠ Take care when handling the metal bracket because it can easily break off.

Step 13



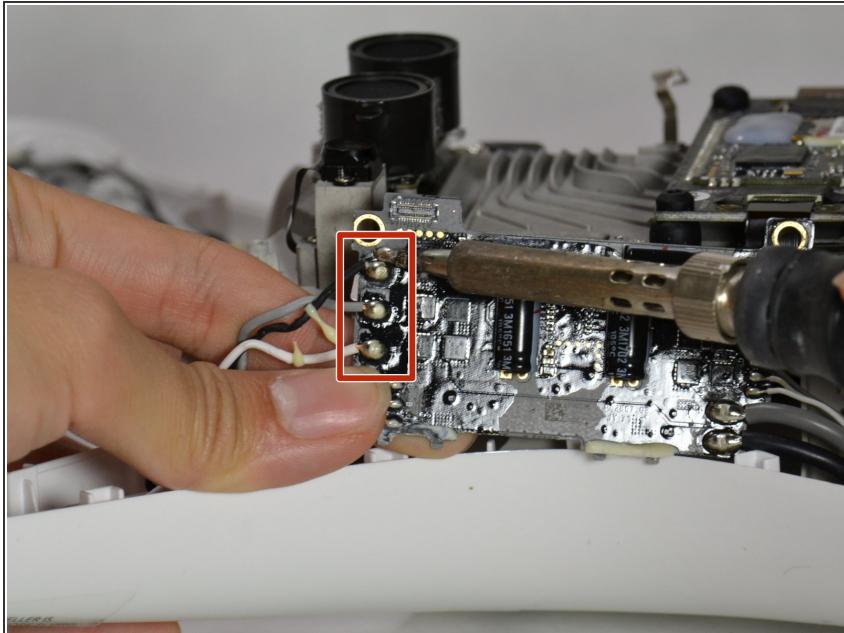
- Unlodge the glue from the board using a metal spudger.

Step 14



- Jiggle the electronic speed controller board up and away from the drone.

Step 15



- Desolder the motor and LED wires on both sides of the board. For general soldering information, visit this [Soldering Technique Guide](#).

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