



DJI Phantom 4 Advanced Motor Replacement

How to replace one or multiple motors on the DJI Phantom 4 Advanced.

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INTRODUCTION

If you have a damaged or malfunctioning motor, this guide will lead you step by step on how to replace those motors. For this guide you will need a soldering iron.

TOOLS:

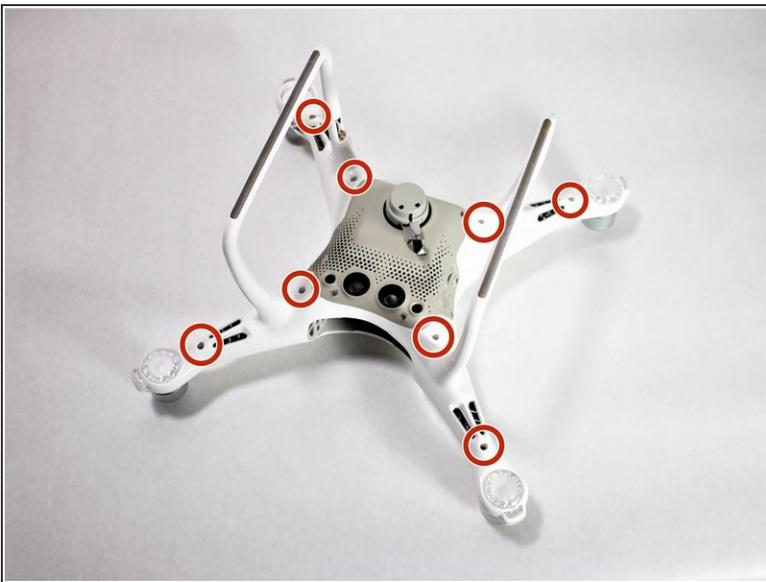
- [JIS #000 Screwdriver](#) (1)
 - [Metal Spudger](#) (1)
 - [1.5mm Hex Screwdriver](#) (1)
 - [Soldering Iron](#) (1)
 - [Solder](#) (1)
-

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.
- ⓘ 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.

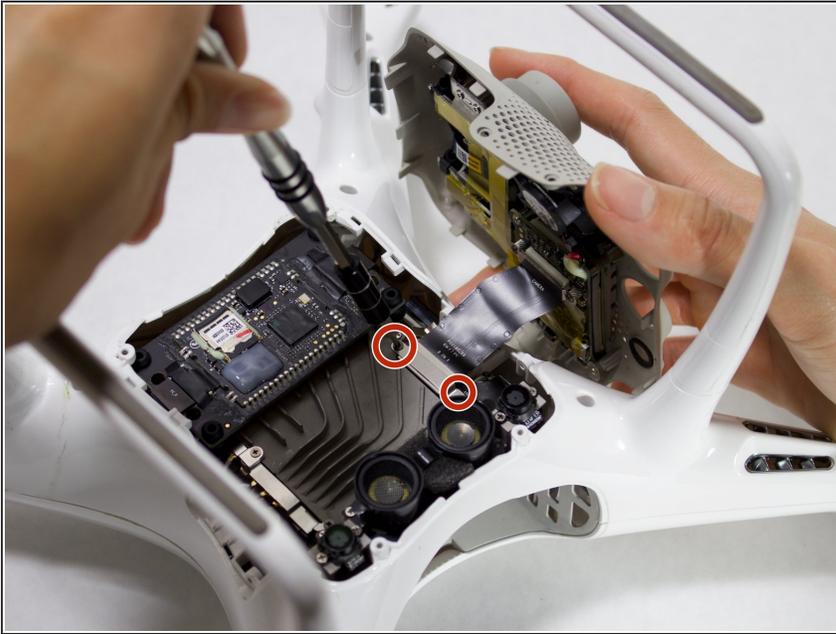
Step 6



- 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.

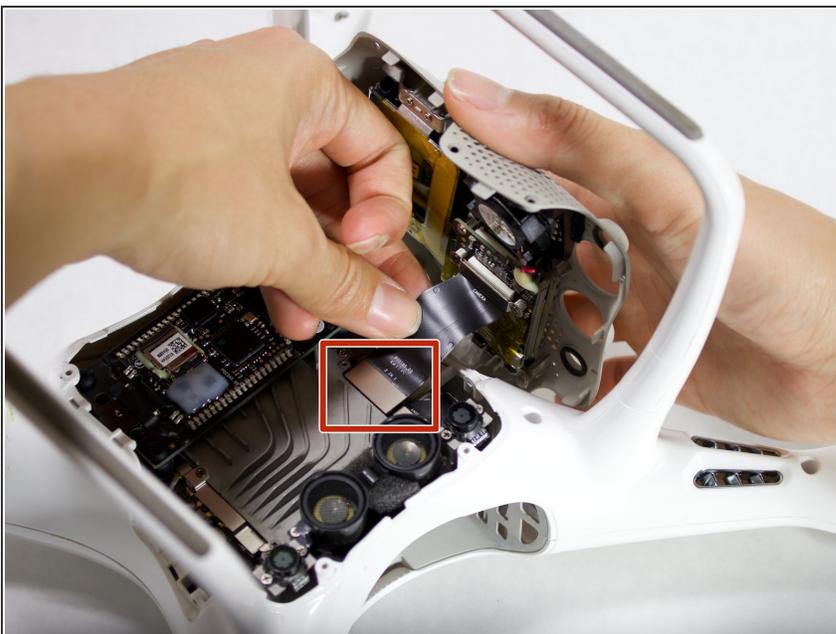
 The cable connects from the camera to the drone. Pulling up could rip the connection. Tilt the mesh 90 degrees towards the cable.

Step 7



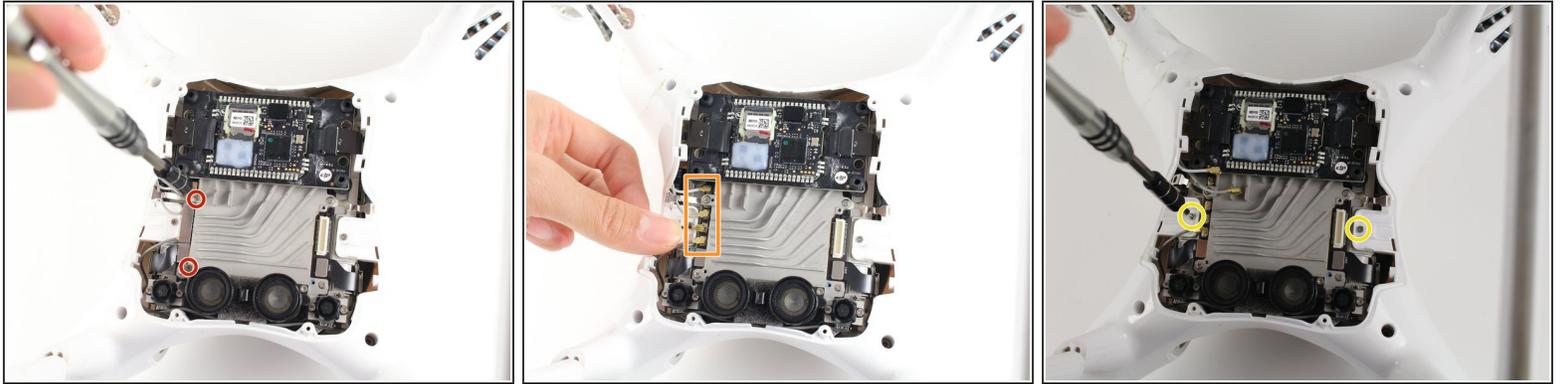
- Remove two 1.2mm screws using the JIS #000 bit from the camera cable retaining bracket.

Step 8



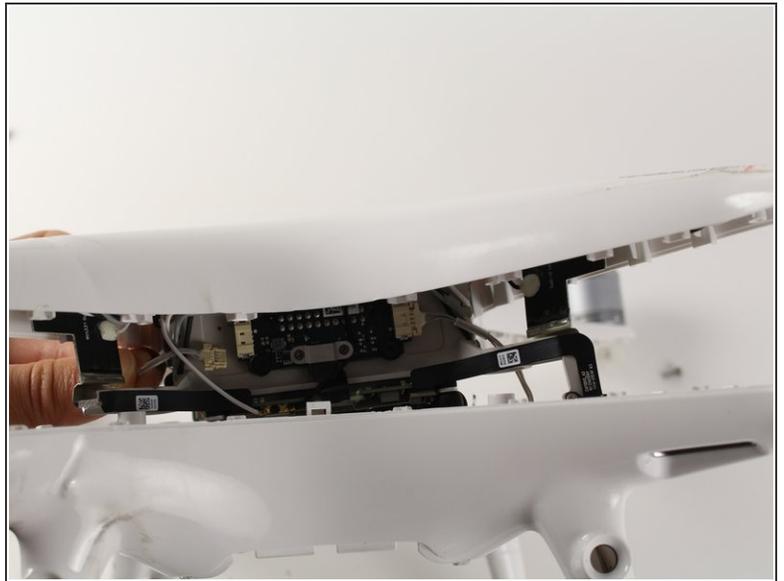
- Lift the camera connector at one end with your hand and remove the mesh.

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.

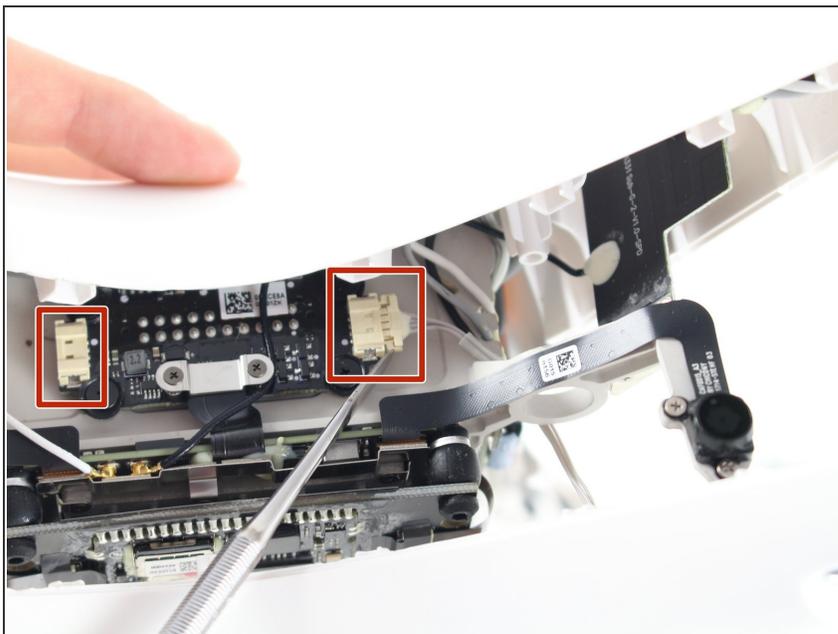
Step 10



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

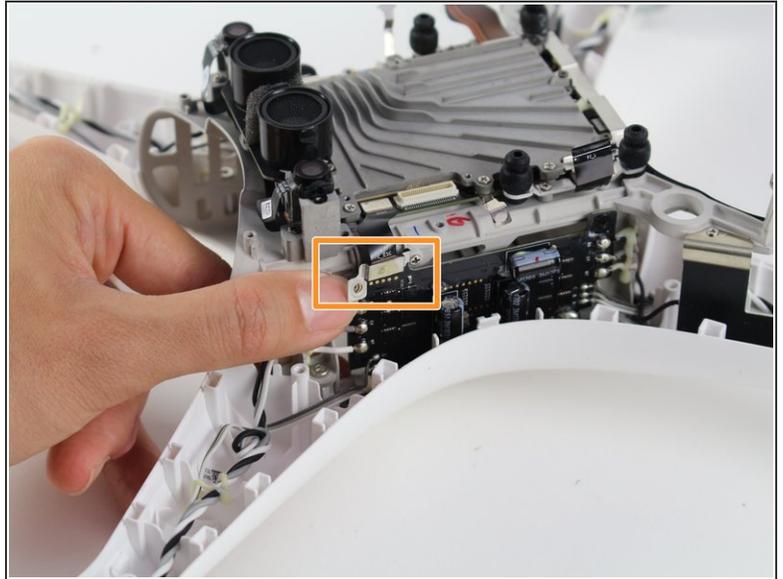
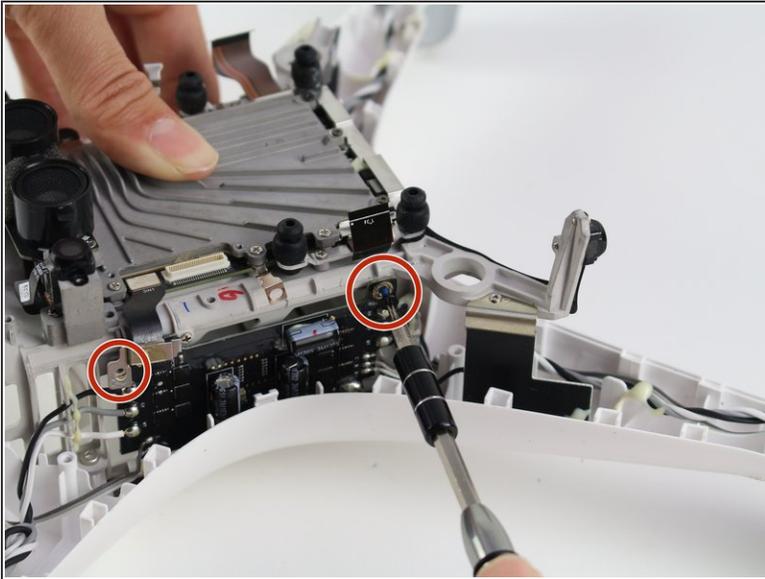
⚠ Two wires connect from the lower frame to the upper frame at the front of the drone. Pulling the clamshell apart hard may damage the connectors and wires.

Step 11



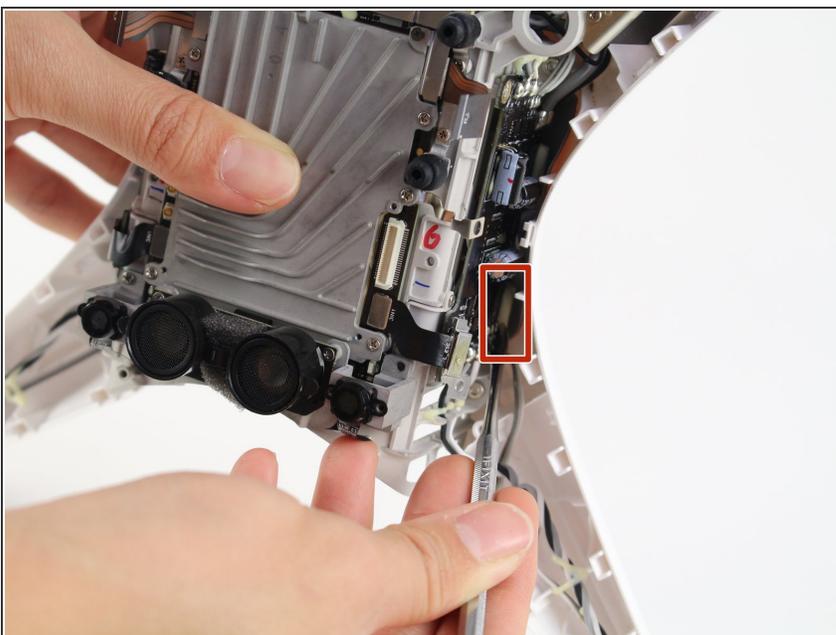
- Press the connector tabs with a spudger and pull on the wire simultaneously.
- Remove the shell from the rest of the drone.

Step 12 — Electronic Speed Controller



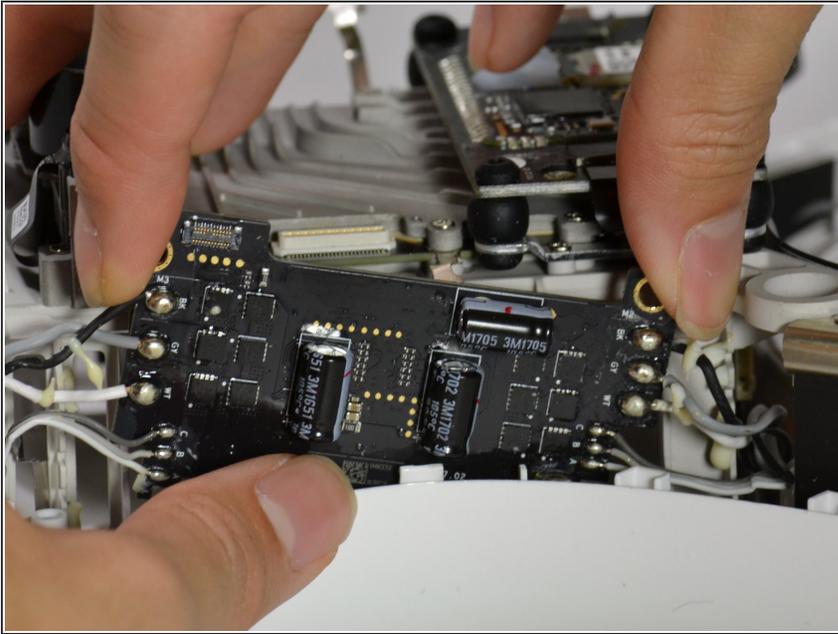
- Remove the two 4 mm screws using the JIS #000 bit.
 - Flip the metal bracket to the right and slide up.
- ⚠ Take care when handling the metal bracket because it can easily break off.

Step 13



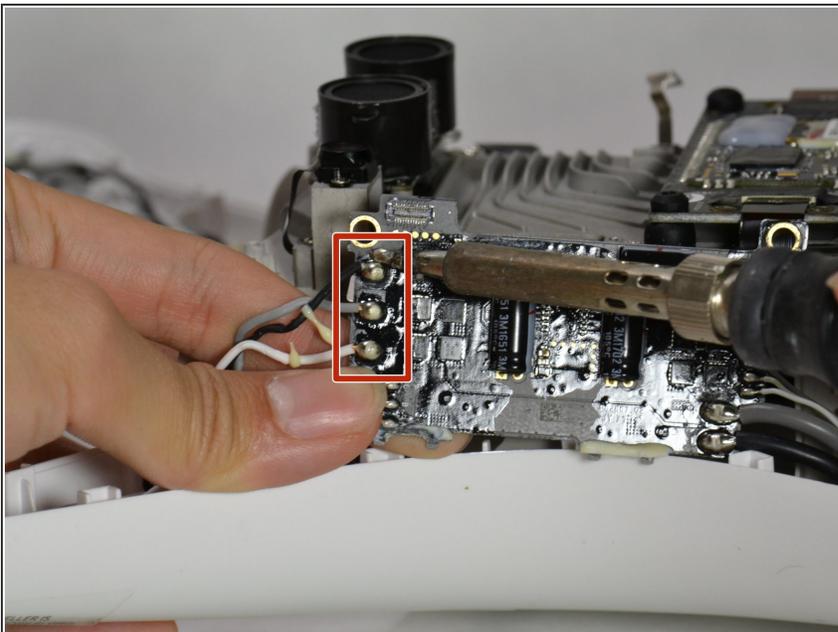
- Unlodge the glue from the board using a metal spudger.

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](#).

Step 16 — Motor



- Pry the motor away from the arm.
- Pull the motor and the motor wires out of the body.

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