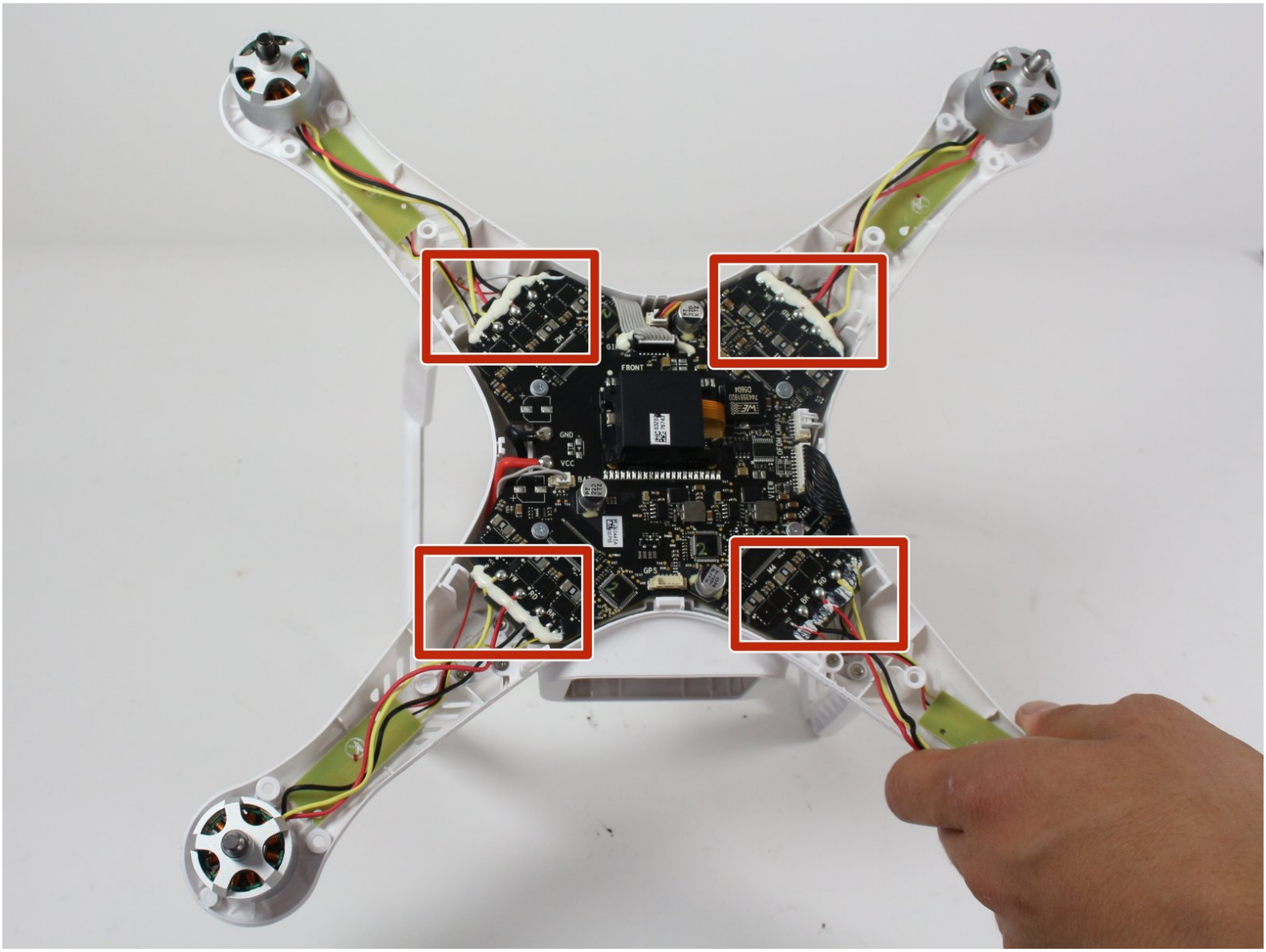
DJI Phantom 3 Advanced LED Replacement

This guide will demonstrate how to remove an LED from the DJI Phantom 3 Advanced.

Written By: Tate Morell



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INTRODUCTION

In this guide you will remove the glue on the wires, desolder the wires connecting the LED to the control board and remove the LED from the drone.

TOOLS:

- T8 Torx Screwdriver (1)
- T6 Torx Screwdriver (1)
- Heavy-Duty Spudger (1)
- Soldering Workstation (1)
- iFixit Opening Tools (1)

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Step 1 — Battery

- With the battery facing you, locate the two tabs on the top and bottom of the battery as shown.

⚠ Remember to disarm and power down your quadcopter before beginning any disassembly.

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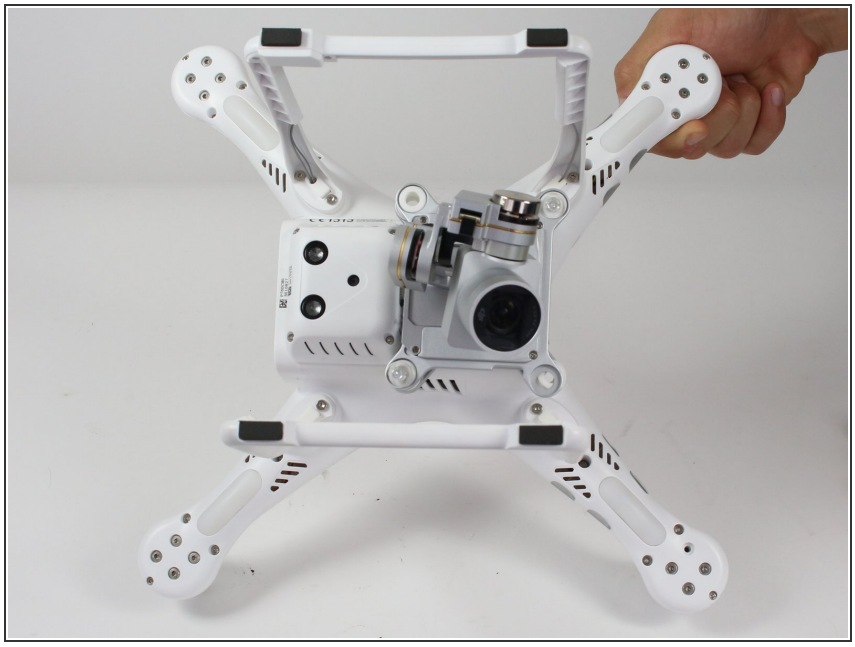
Step 2

- Press the two tabs with your finger and thumb, and gently slide the battery towards you, out of the quadcopter frame.
- With your other hand, be sure to hold the quadcopter steady to ensure that it stays still.

Step 3 — Cover



- Turn the Phantom 3 Advanced upside down.

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Step 4

- Remove the four 7mm long 2mm screws with a T-6 screwdriver.

ⓘ There is one screw per arm, located at the tip of the arm.

Step 5

- Remove the eight 5mm long 2.5mm screws using the T-8 screwdriver.

ⓘ There are two 5mm screws on each arm.

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Step 6

- Remove the four 10mm long deep 3mm screws using the T-8 screwdriver.

ⓘ There is one screw on each arm located near the landing gear.

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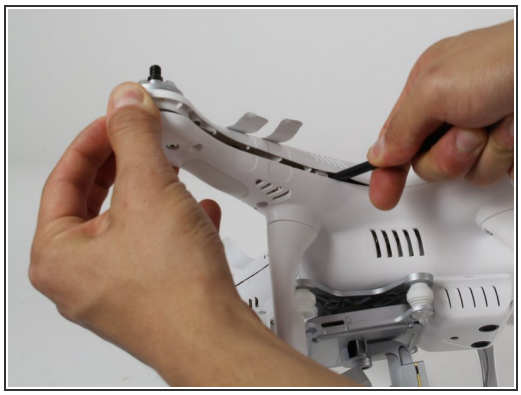
Step 7



- Carefully flip the phantom back over with the motors facing up.
- Peel back the silver stickers from the seam in the cover.
- Using a plastic spudger, slowly separate the two halves of the plastic shell.

ⓘ This step requires some force, and the plastic will click loudly as the shell separates.

⚠ Do not fully remove the cover. There is a wire that needs to be detached from the control board before the cover is completely free.

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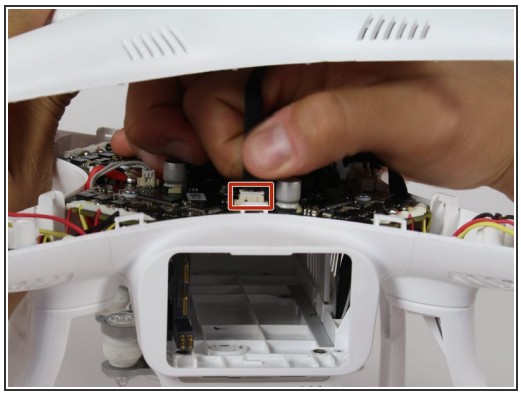
Step 8



- Slowly remove the upper half of the plastic case about halfway. There is a ribbon cable that's connects the cover and the control board.
- Follow the ribbon cable to the control board and locate the connector that connects the cable to the control board.
- Press the tab on the side of the connector and pull up on the cable.
- Continue to remove the shell the rest of the way.

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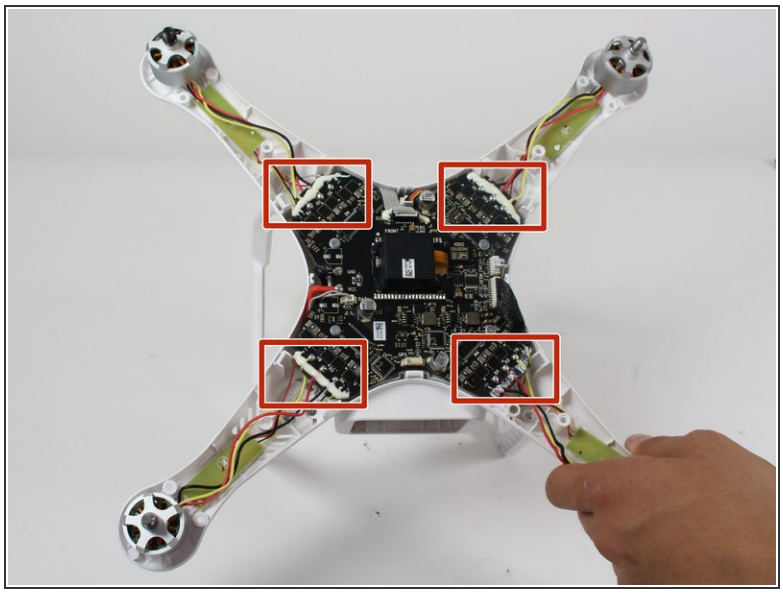
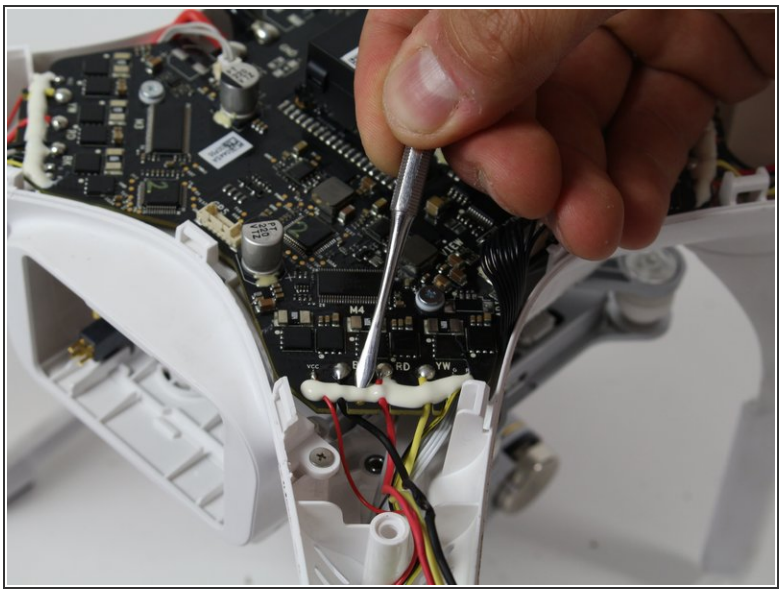
Step 9 — LED

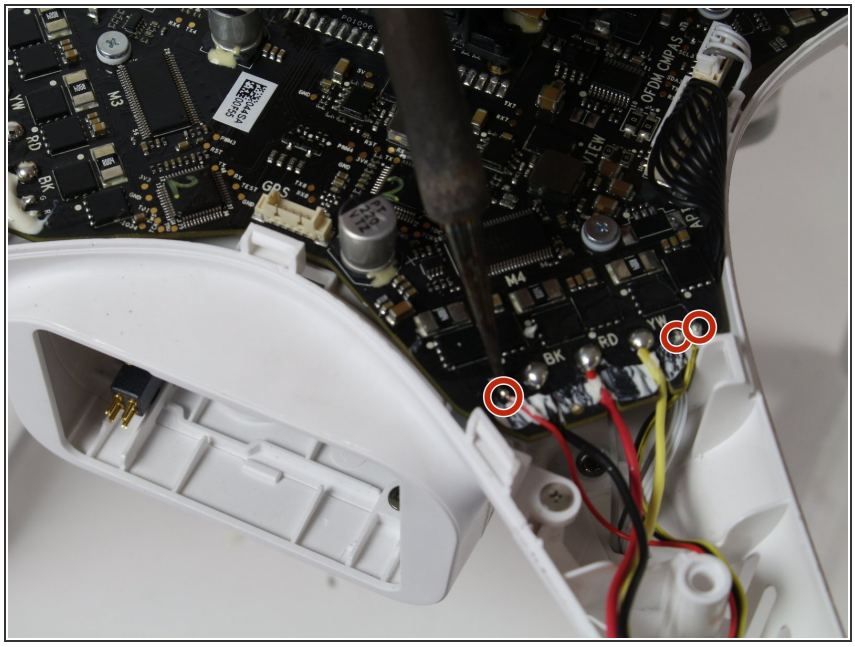




- Follow the red,yellow and black wires from the LED to where they connect on the control board.
- Scrape off the glue with a plastic opening tool. Use a metal opening tool if needed.

ⓘ The LED wires are smaller than the motor wires.

Step 10



- Desolder the red, yellow and black wires that connect the LED to the control board. Check out the link below for more information on desoldering. [Desoldering Information]

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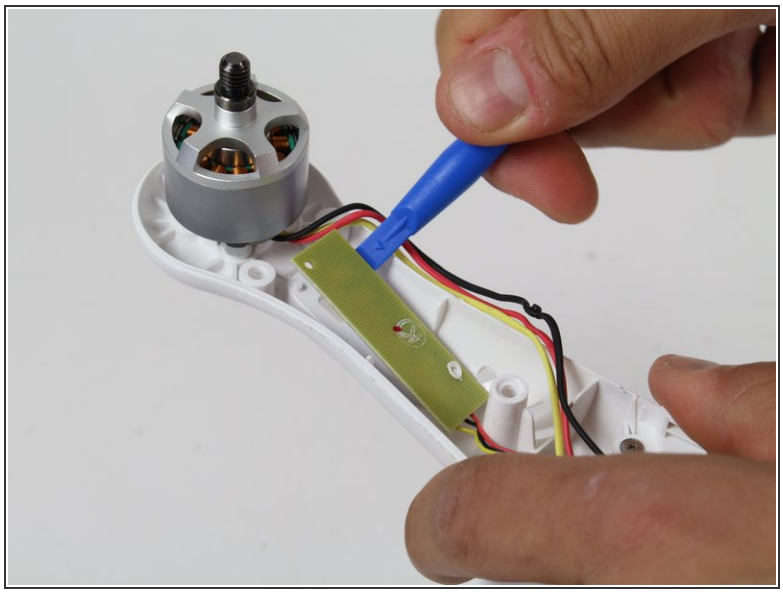
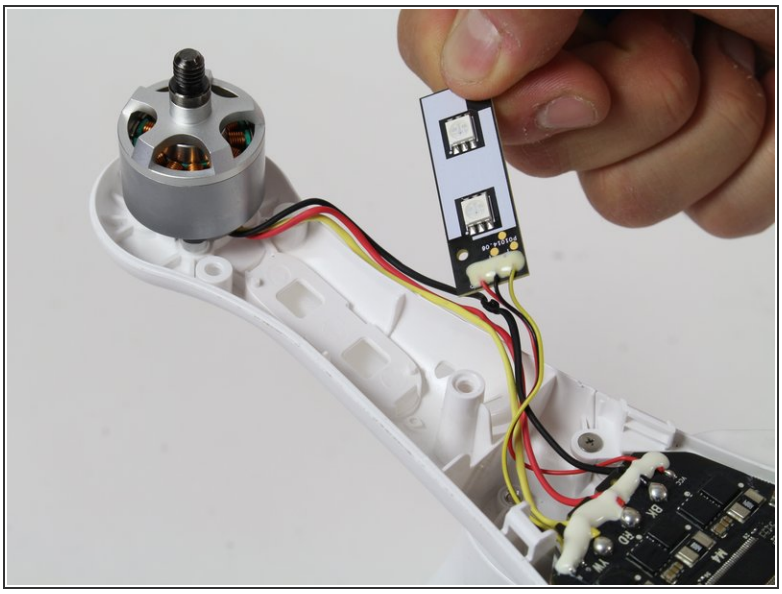
Step 11





- Use a plastic opening tool and wedge it under the LED.
- Press down on the plastic opening tool and remove the LED.

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

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