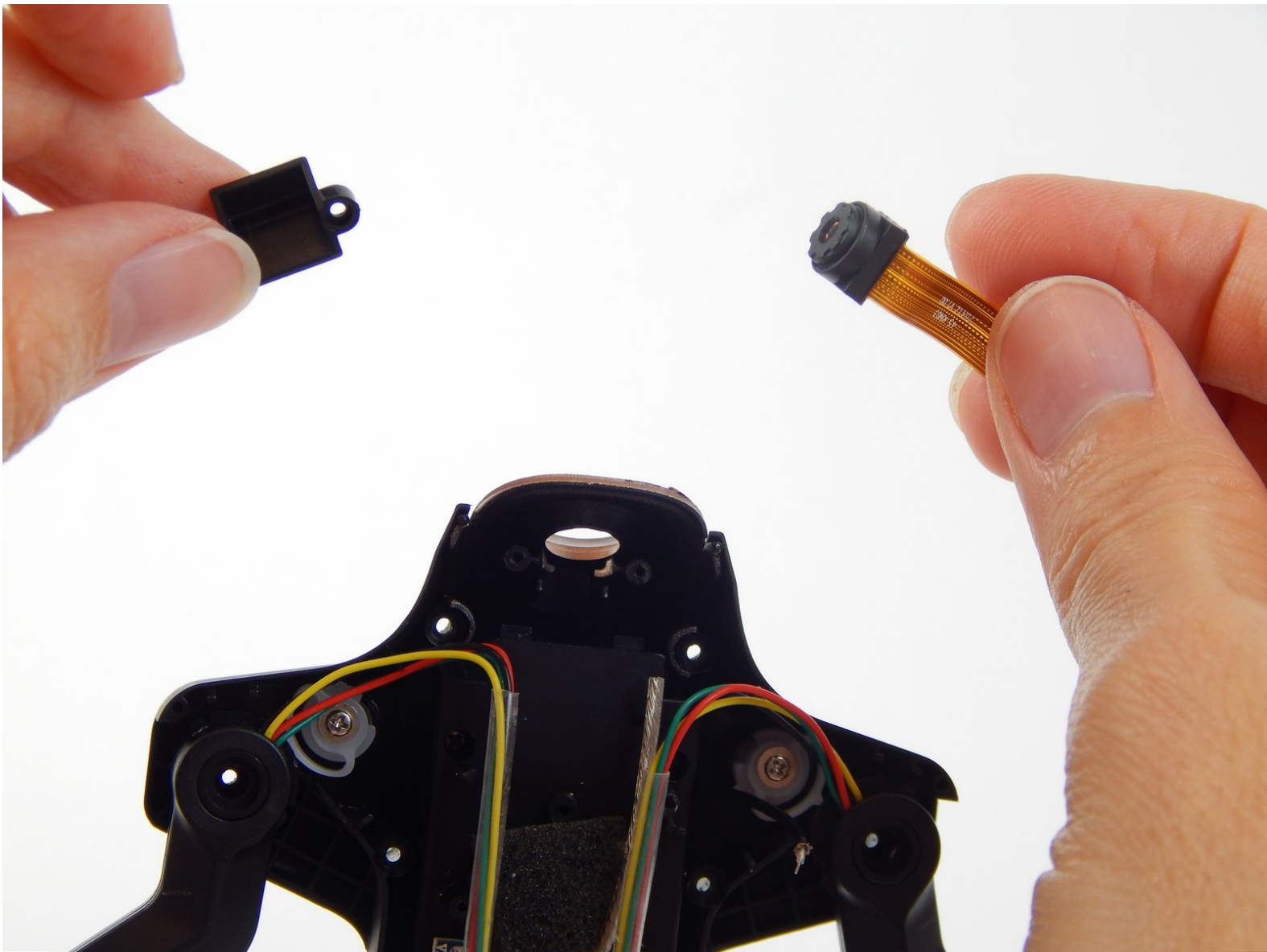# Protocol Vento Front Camera Replacement

This guide will demonstrate how to remove and replace the front camera on the Protocol Vento drone.

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INTRODUCTION

This guide will demonstrate how to remove and replace the front camera on the Protocol Vento drone.

🔧 TOOLS:

- iFixit Opening Tools (1)
- Phillips #000 Screwdriver (1)

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Step 1 — Battery

- Grasp the tail end of the drone where the lip of the battery protrudes.

Step 2

- Pull away from the drone to remove the battery.

- Do not attempt any repairs or replacements before removing the battery from the drone.

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Step 3 — Transmitter Board

- To get into the drone, twelve total screws need to be removed:
  - Ten 5.7mm Phillips #000 screws from the bottom of the drone body.
  - Two 4.5mm Phillips #000 screws at the front of the drone.

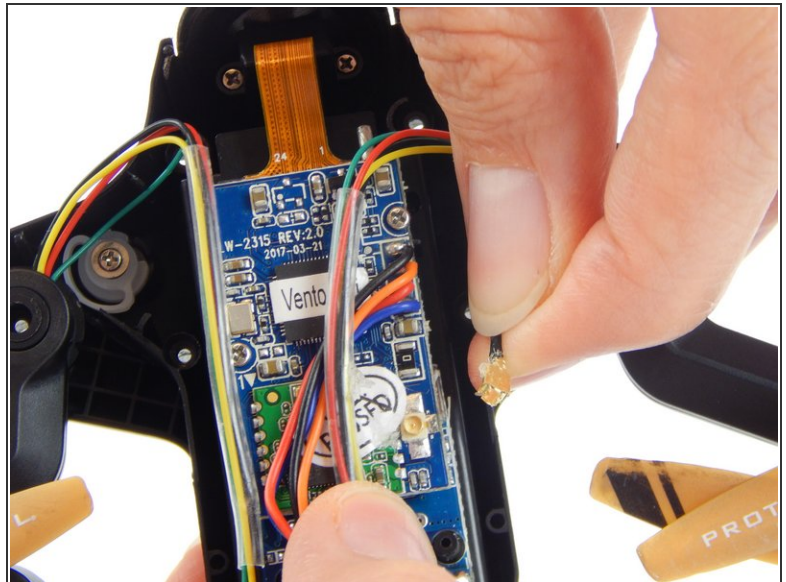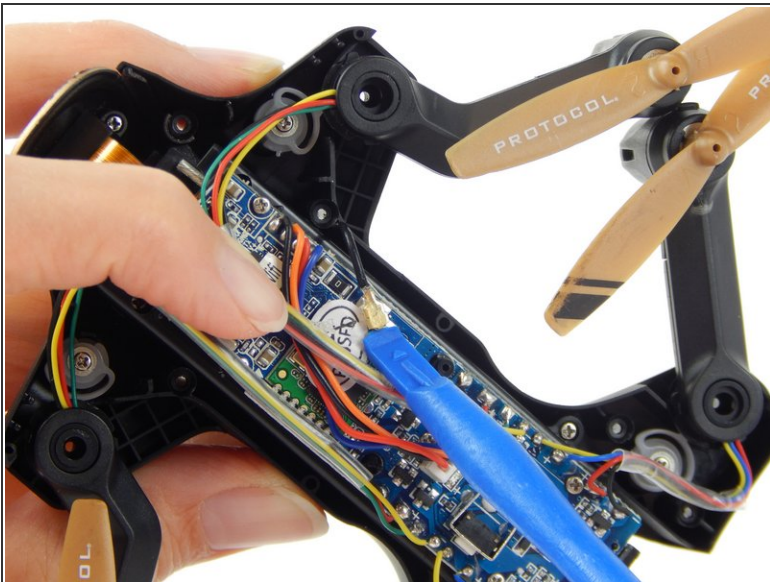- (i) *It is not necessary to remove the four screws on the arms of the drone.*

Step 4

- Flip the drone over and lift off the top plastic shell of the drone.

Step 5

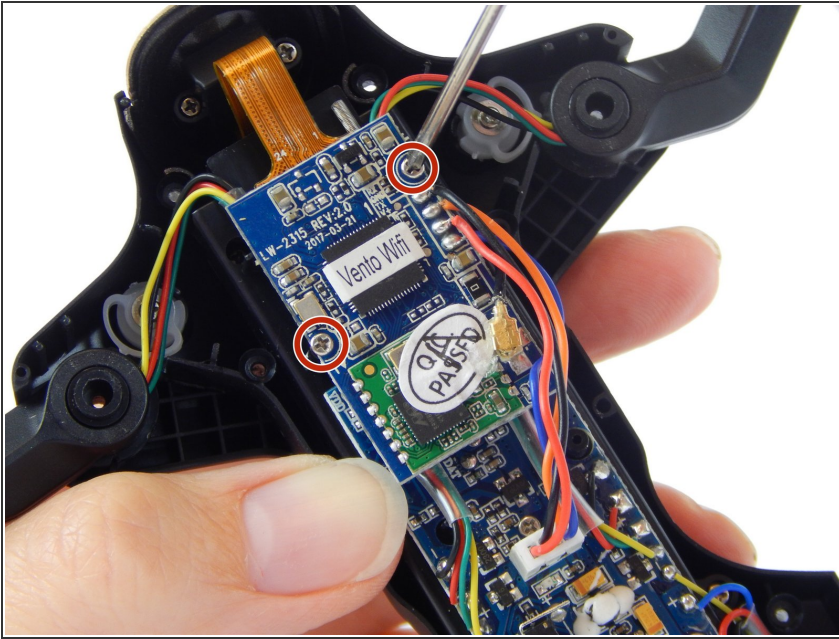- Remove the foam adhesive pad located on the Wi-Fi transmitter board.

Step 6

- Pry the gold Wi-Fi antenna connector, located under the previously removed foam pad, away from the Wi-Fi transmitter board to disconnect it.

⚠️ *Be sure to only apply force to the gold connector and not the black wire attached to it, as the connection between the two is very fragile.*

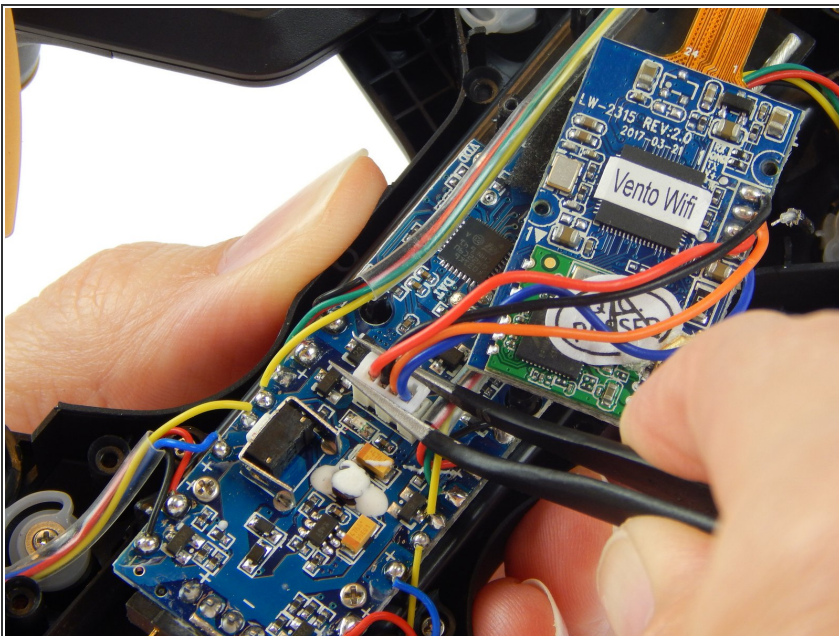This document was generated on 2020-11-28 06:30:37 AM (MST).

Step 7

- Remove the two 3.8mm Phillips #000 screws from the Wi-Fi transmitter board.

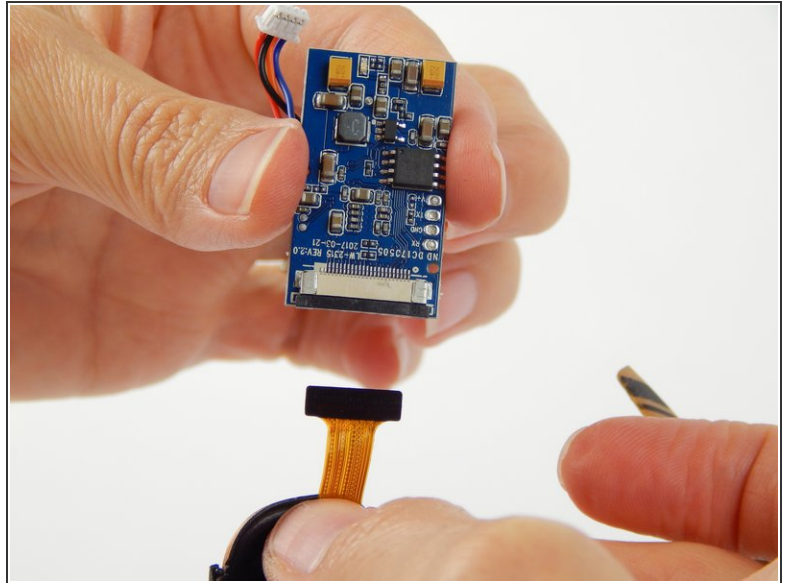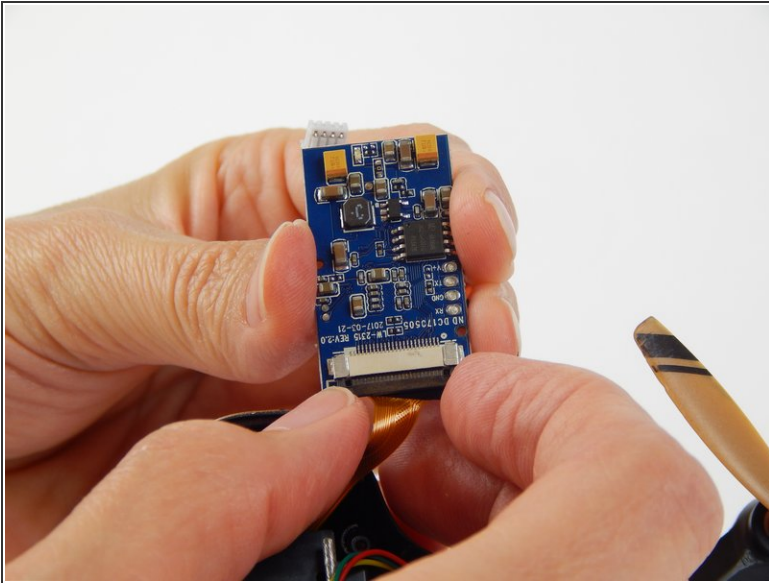⚠ *Be careful with the delicate ribbon cable attached to the camera.*

Step 8

- Disconnect the white clip that connects the four colored wires (black, orange, red, blue) to the motherboard.

⚠ *Be sure to pull only on the white clip, as to avoid damaging the wires.*

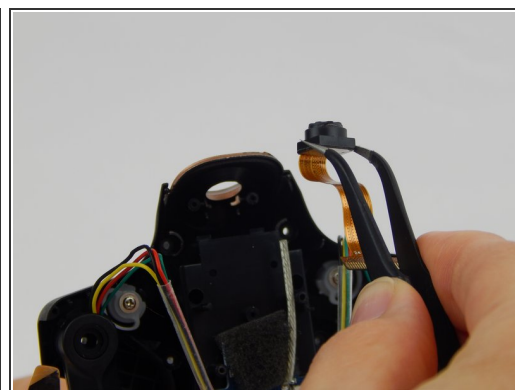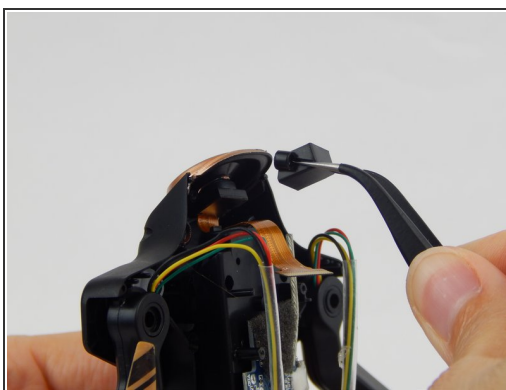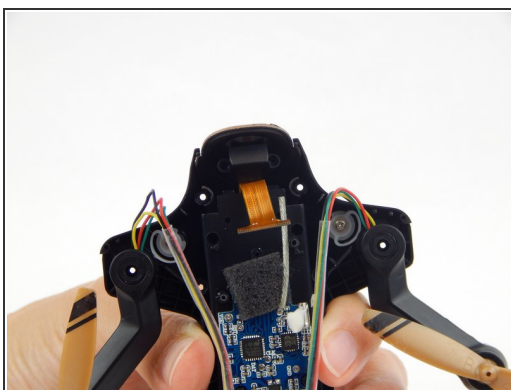This document was generated on 2020-11-28 06:30:37 AM (MST).

Step 9

- Gently pull the black wedge away from the main board until it shifts to a stop. You will feel it slide out, then stop.

- *The black insert acts as a wedge to keep the ribbon cable attached to the board. The wedge needs to be jostled loose before the cable can be removed.*

- Lightly pull the ribbon cable away from the connector.

Step 10 — Front Camera

- Remove the two 4.9mm Phillips #000 screws securing the camera to the front of the drone body.

Step 11

- Lift the camera holder and the camera up and away from the drone.

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