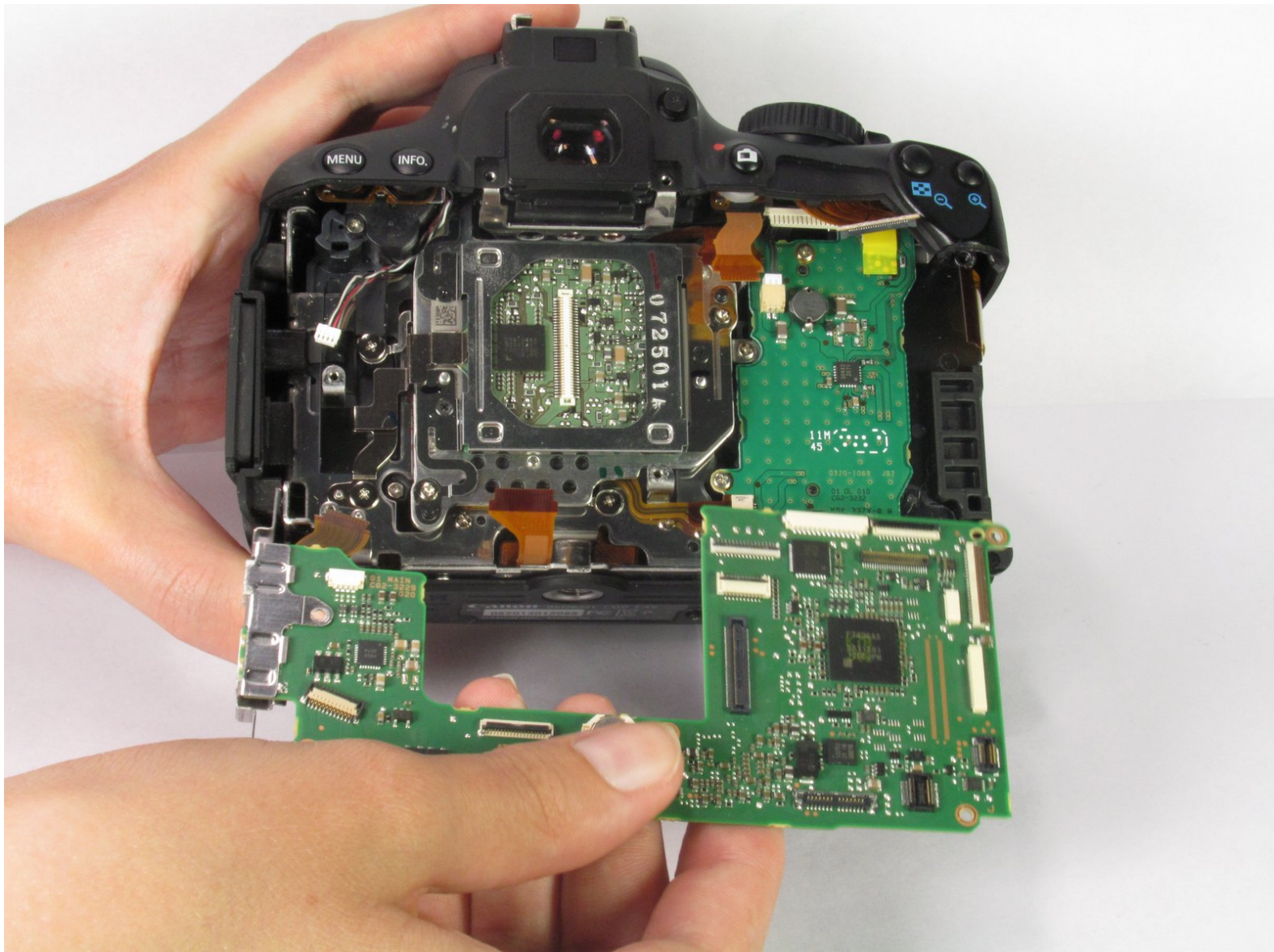# Canon EOS Rebel T4i Motherboard Replacement

This guide will show you how to replace the motherboard on your Canon Rebel T4i.

Written By: Jordan Rabold

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INTRODUCTION

This guide will detail the process of replacing the motherboard. Replacing the motherboard is a more involved process and should not be done unless your are sure there is an issue with the motherboard.

🔧 TOOLS:

- iFixit Opening Tools (1)
- T6 Torx Screwdriver (1)
- Spudger (1)
- Phillips #000 Screwdriver (1)

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Step 1 — Battery

- Locate the battery cover at the bottom of the camera.

- Pull down on the black tab to open the cover.

Step 2

- Push the grey tab on the right side of the battery.

- Remove the battery from the slot.

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Step 3 — Motherboard

- Use the spudger to pry off the rubber grip and reveal the screws.

- Unscrew the four 5.5mm Torx screws using the Torx T6 screwdriver.

Step 4

- Pull off the plastic cover from the viewfinder.

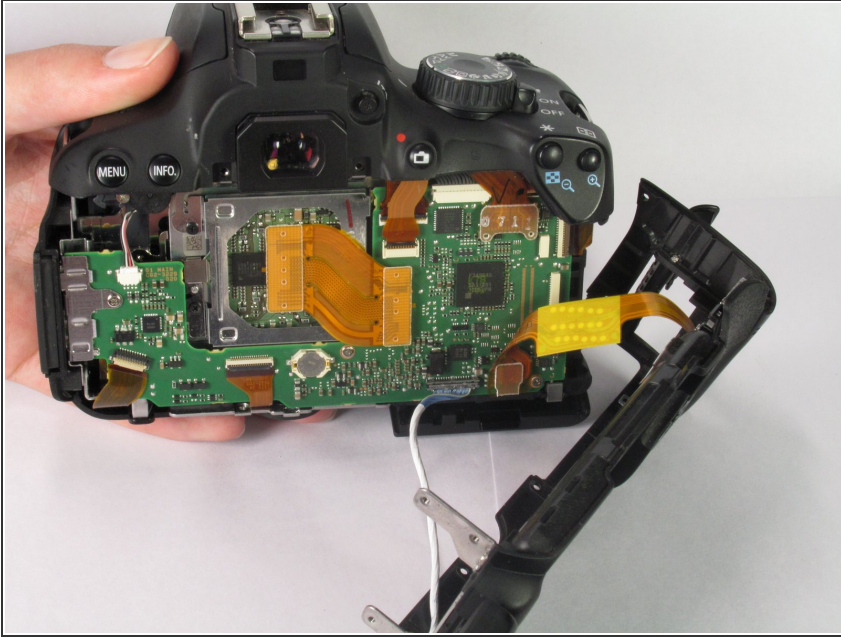- Unscrew the two 3.4mm Phillips screws using the Phillips #00 screwdriver.

Step 5

- Remove the following screws from the device using the Phillips #00 screwdriver:
  - Two 3.4mm Phillips head screws.
  - Two 5.9mm Phillips head screw.

Step 6

- Remove the following screws from the device using the Phillips #00 screwdriver:
  - One 3.4mm Phillips head screw.
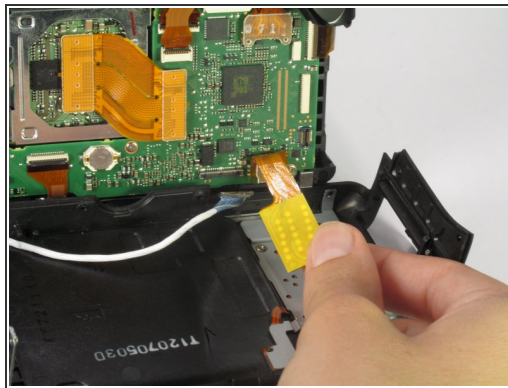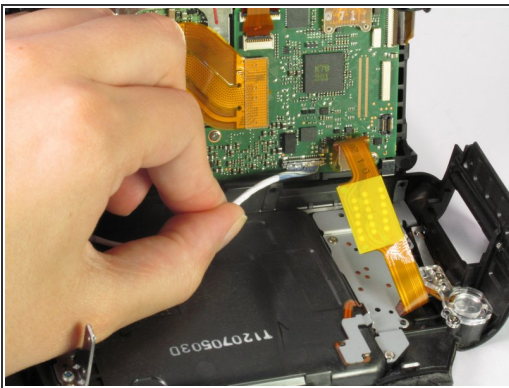 - One 5.9 mm Phillips head screw.

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Step 7

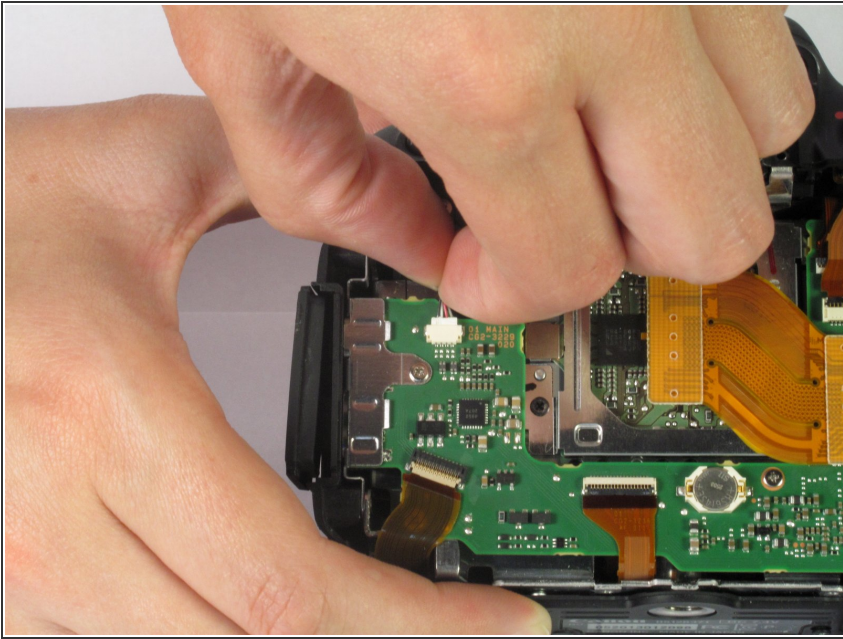- Remove the rear panel from the camera.

- ⚠ Several fragile cables are attached to the inside of the panel, so remove it gently.
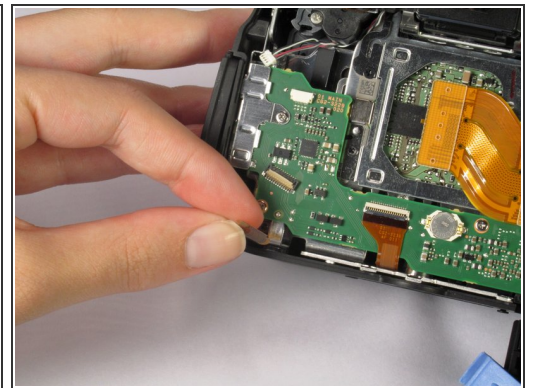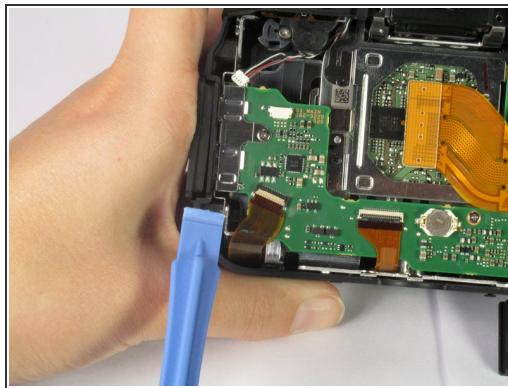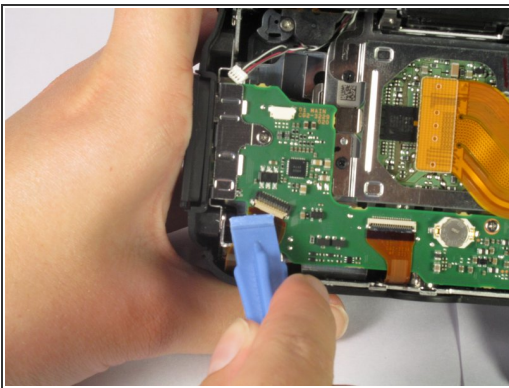
Step 8

- In the lower right corner of the mother board, detach the blue cable.

- Then detach the ribbon cable going from the motherboard to the rear panel.
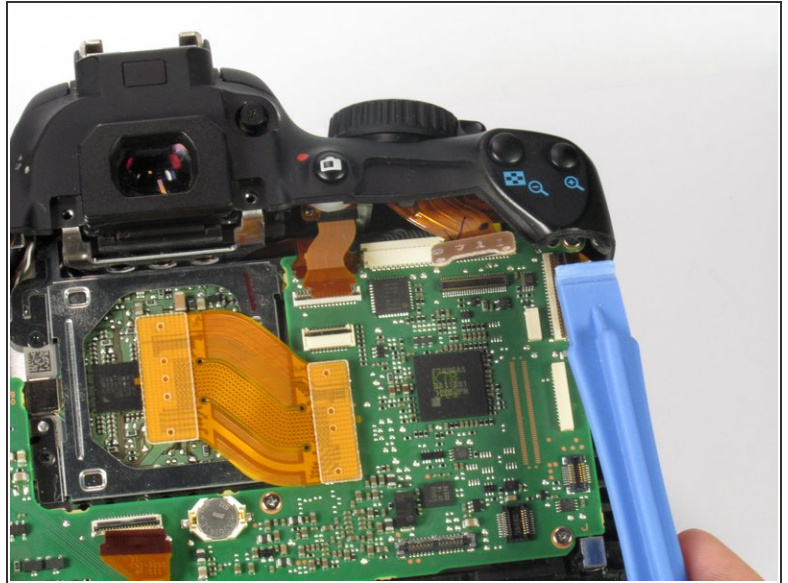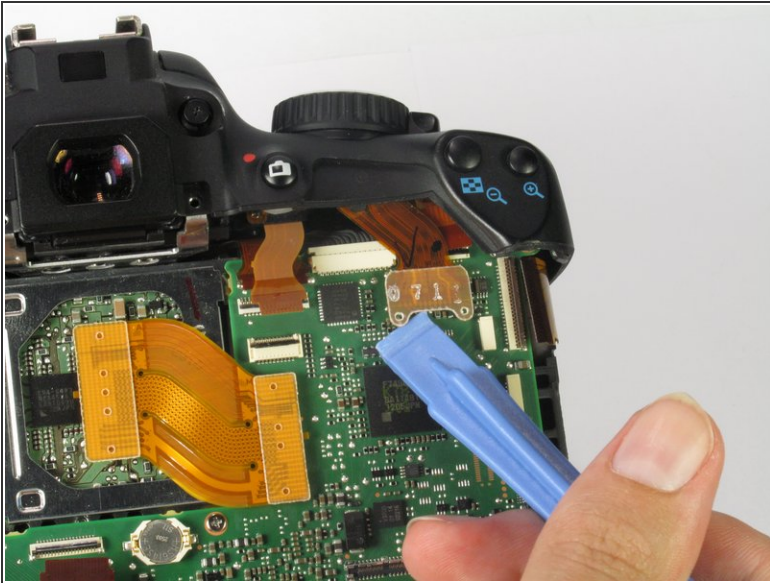
Step 9

- In the upper left corner of the motherboard, remove the small multicolored wire from the motherboard.
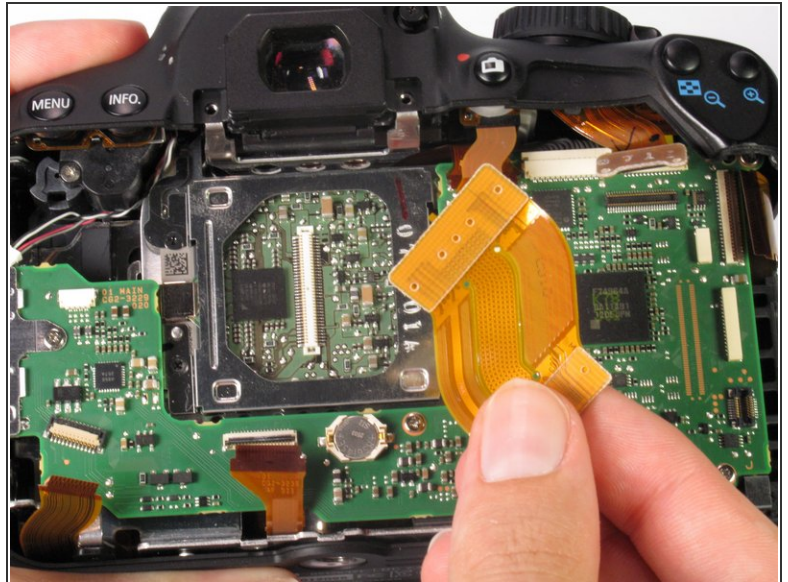
Step 10

- Use the plastic opening tool to flip up ribbon cable connector.

- Gently disconnect the ribbon cable by pulling it away from the motherboard.
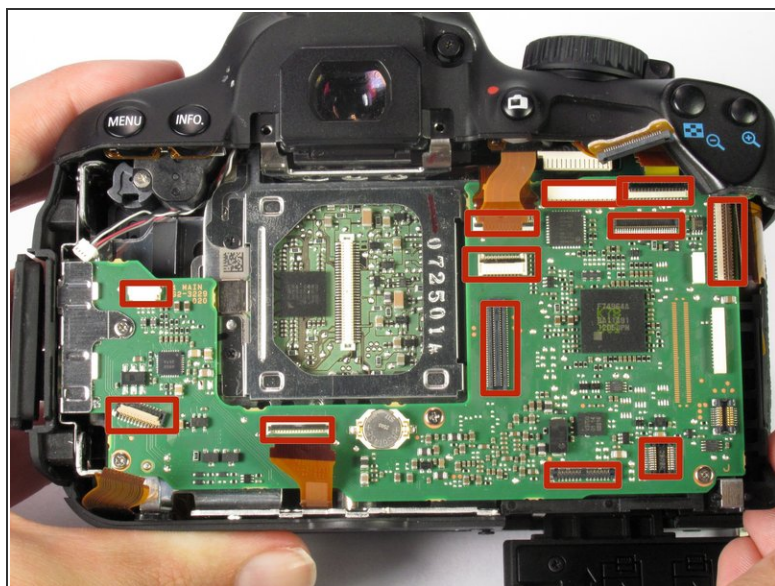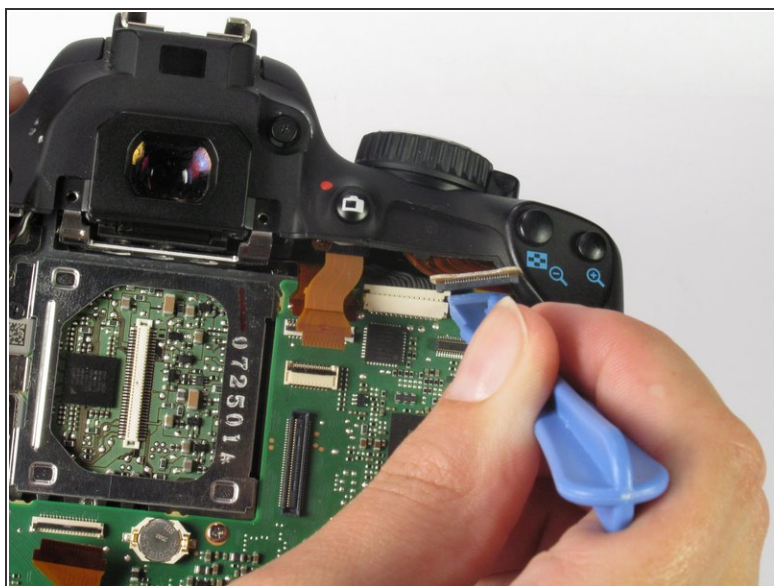
Step 11

- In the upper right corner of the motherboard, use the plastic opening tool to remove the clear cable connector from the motherboard.
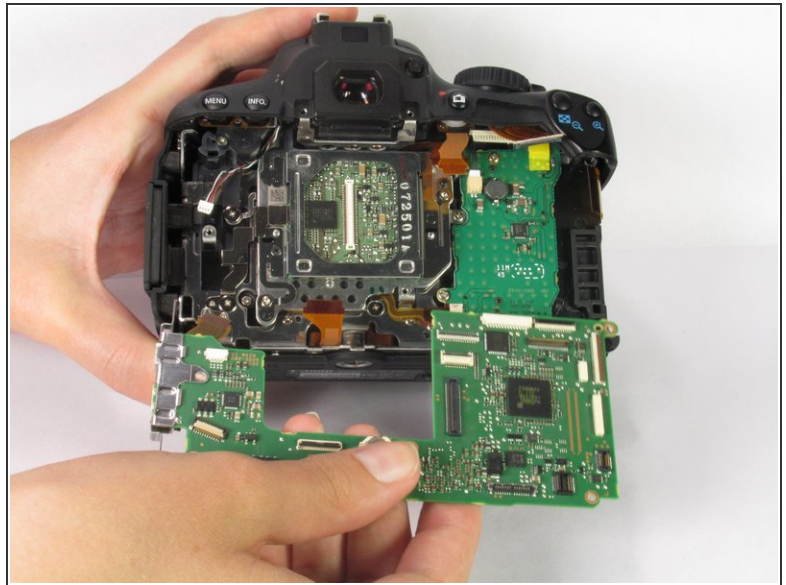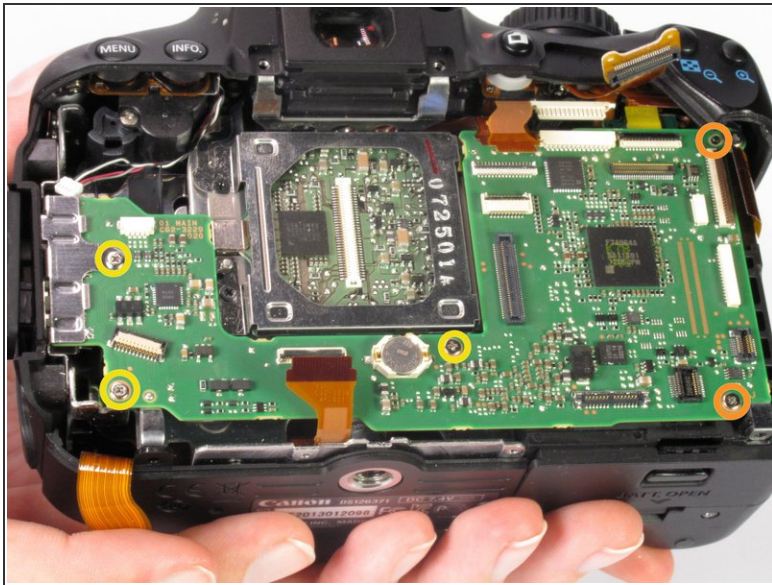
Step 12

- Use the plastic opening tool to remove the ribbon cable connecting the image sensor to the motherboard.

Step 13

- Use the plastic opening tool to push on the indents of the plastic header to disconnect from the motherboard.

- Make sure all cables are disconnected from the motherboard.

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Step 14

- Remove the following screws from the motherboard using the Phillips #00 screwdriver:
  - Two 3.9mm Phillips head screws.
  - Three 2.9mm Phillips head screws
- Gently pull the motherboard out of the camera.

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