



Nikon D3100 Motherboard Replacement

Replace the motherboard of a Nikon D3100.

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INTRODUCTION

If your camera is malfunctioning or the external connection (micro USB and HDMI) ports are not working, then the camera's motherboard might be faulty and needs to be replaced. Before starting with this guide, refer to this [troubleshooting page](#) to check if there are any other possible causes.

TOOLS:

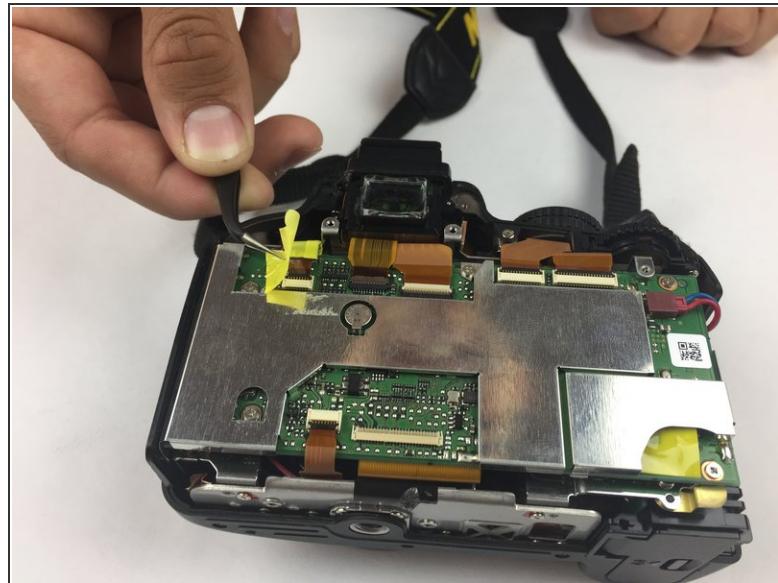
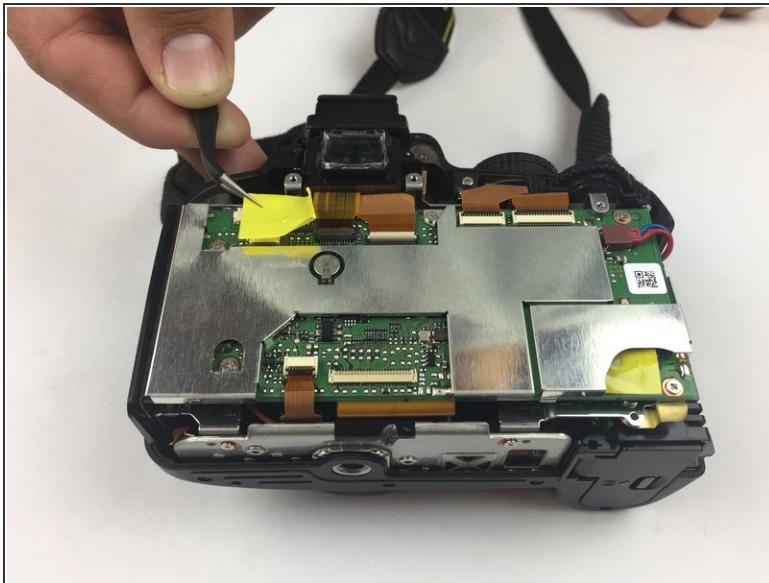
- [Phillips #00 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [Spudger](#) (1)

Step 1 — Motherboard



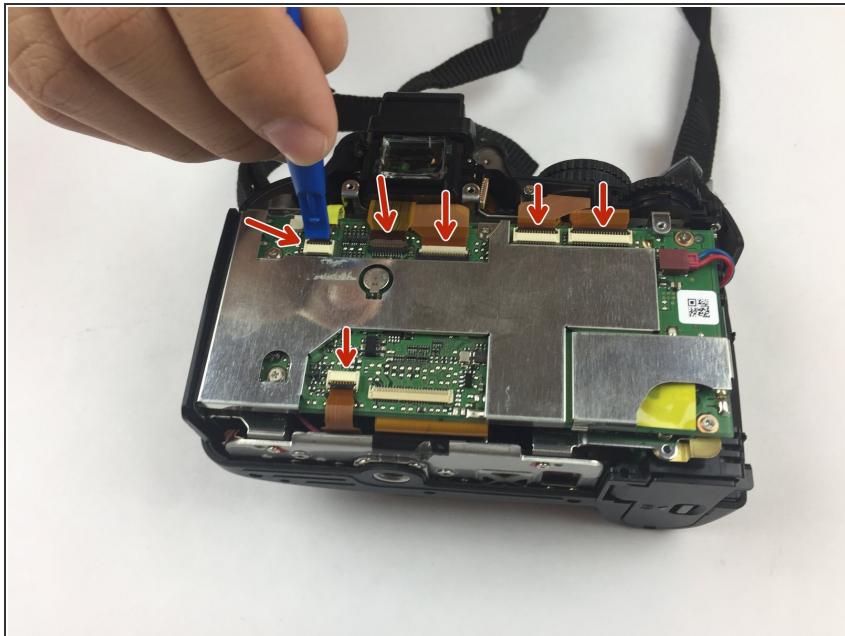
- Follow steps 1 - 5 from the [LCD Screen Replacement Guide](#) to take off the back panel.

Step 2



- Use tweezers to gently lift the yellow tape from the back of the camera.

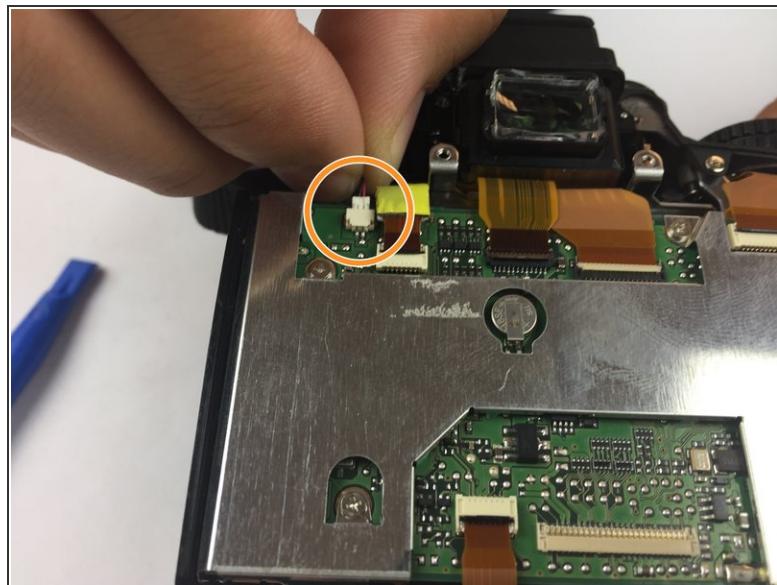
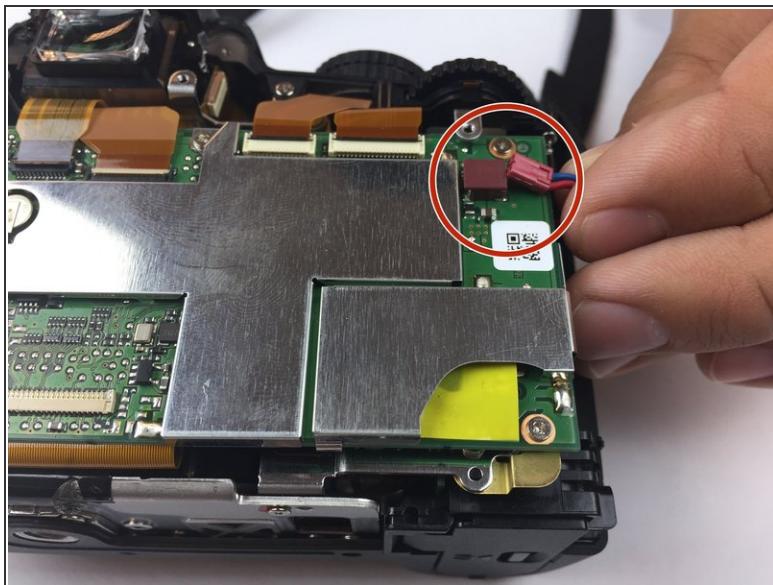
Step 3



- Use a plastic spudger to remove the 6 ribbons.

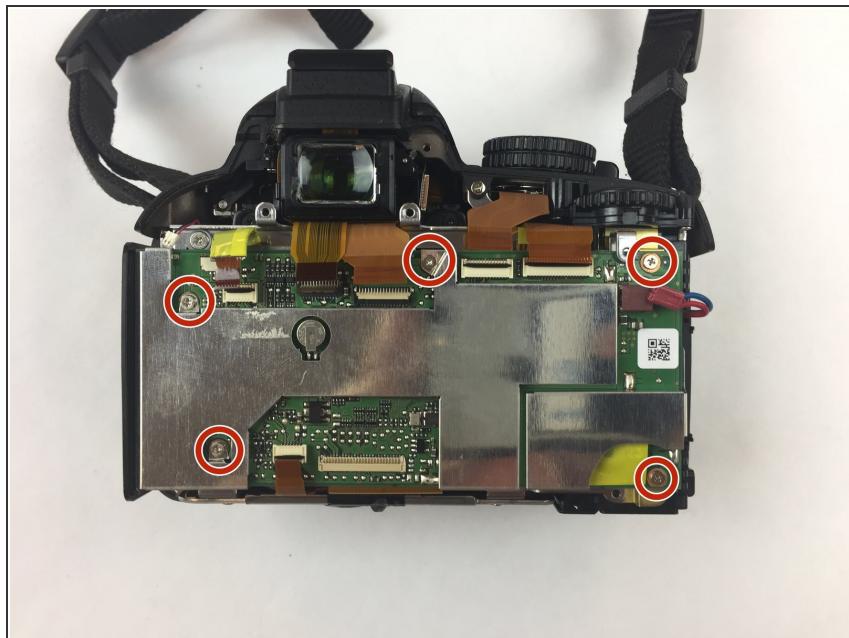
⚠ Be careful not to tear the ribbons.

Step 4



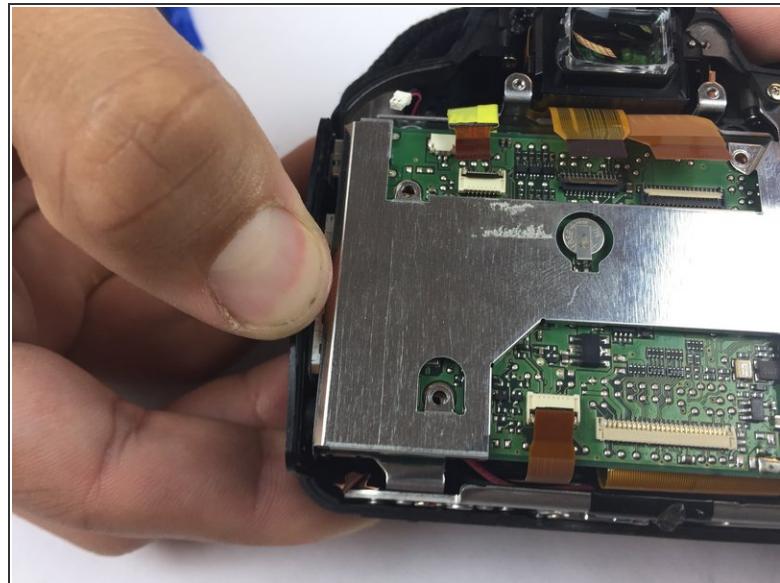
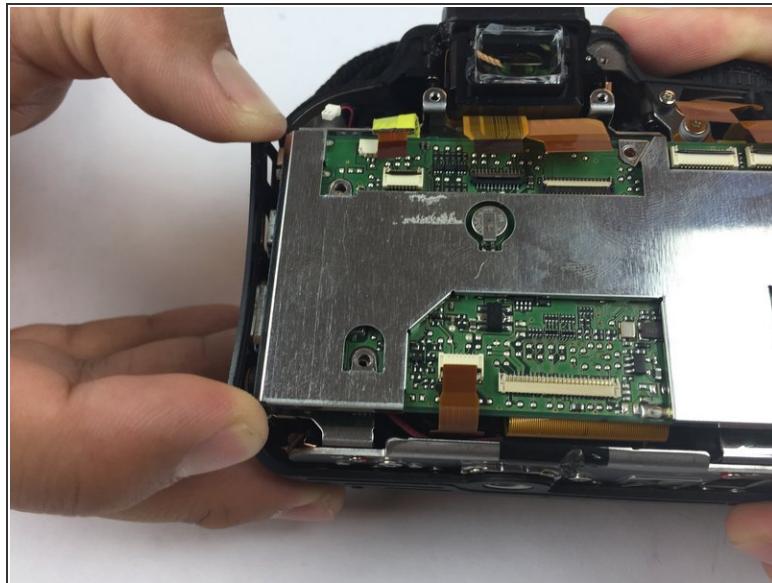
- Remove the plug located on the top-right side of the camera.
- Remove the plug located on the top-left side of the camera.

Step 5



- Use a Philips #00 Screwdriver to remove the five 3 mm screws marked in the image.

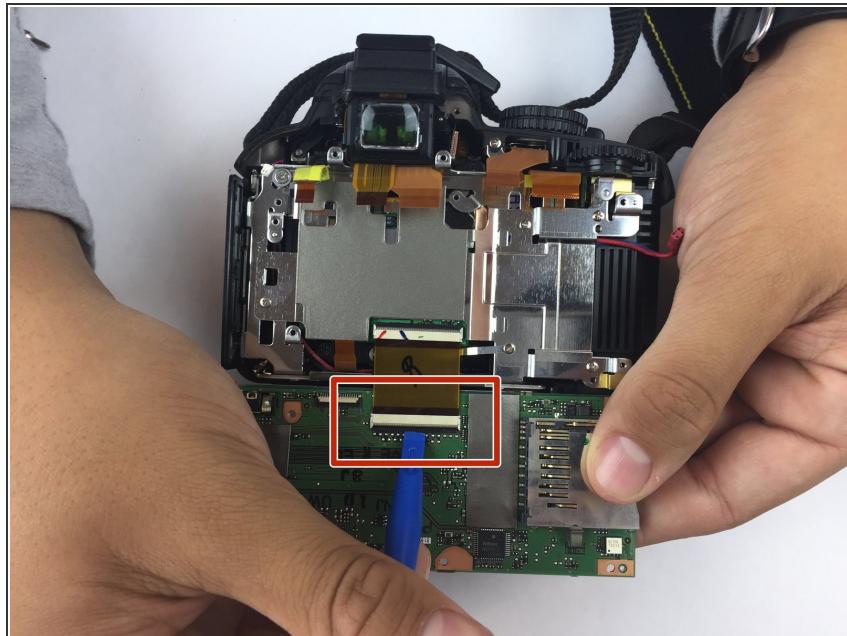
Step 6



- Gently pull out the side wall of the camera so that the motherboard comes out easier.

⚠ Do not pull too hard or you will risk breaking the plastic.

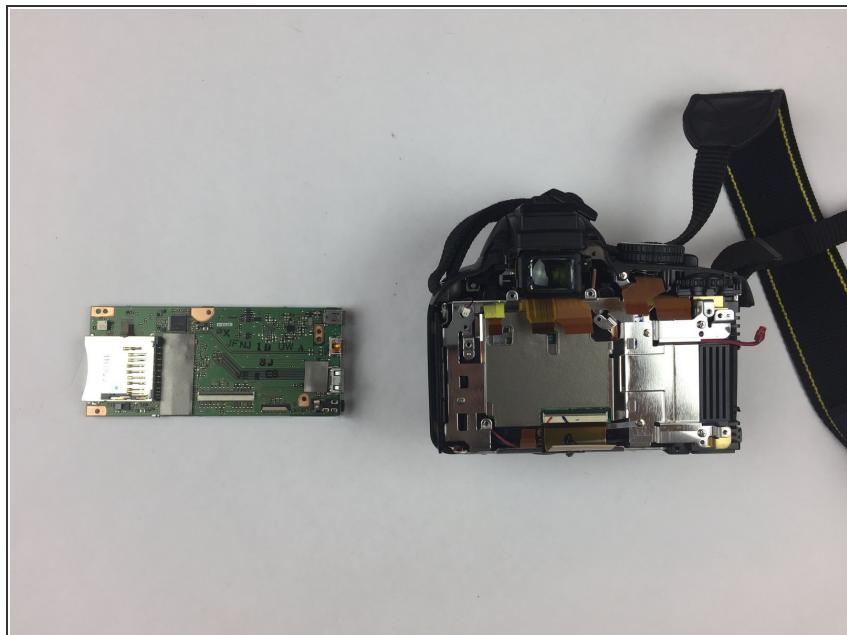
Step 7



⚠ Be careful while lifting the motherboard because there is one more ribbon attached.

- Gently lift the motherboard to separate it from the back of the camera.
- Use a plastic spudger to detach the ribbon.

Step 8



- Replace the motherboard.

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