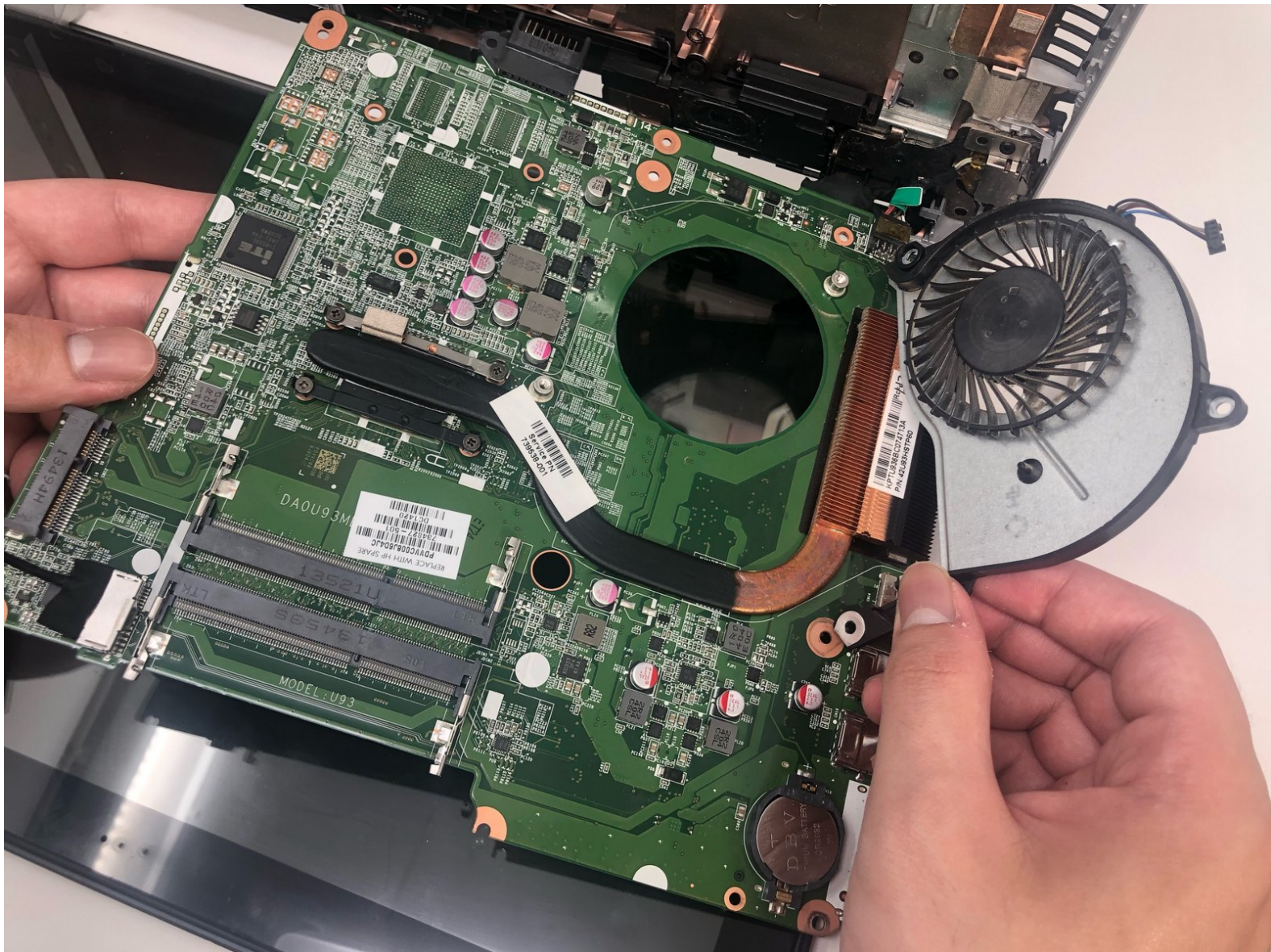




HP Pavilion 15-n232nr Cooling Fan Replacement

This guide will cover the necessary steps for replacing the HP Pavilion 15-n232nr cooling fan.

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INTRODUCTION

This guide is for users who need to replace the cooling fan in their HP Pavilion 15-n232nr. The tools required are the spudger, screwdriver, and tweezers.

TOOLS:

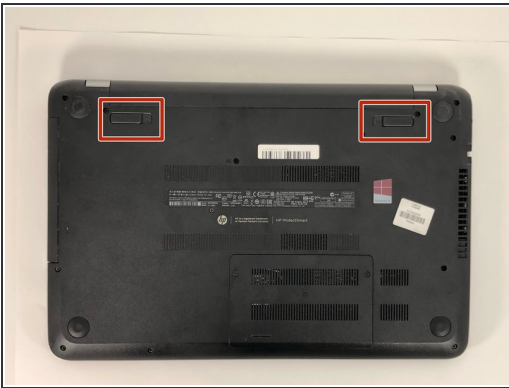
- [Metal Spudger](#) (1)
 - [Spudger](#) (1)
 - [Tweezers](#) (1)
 - [iFixit Opening Tools](#) (1)
 - [Phillips #1 Screwdriver](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
 - [Phillips #000 Screwdriver](#) (1)
-

Step 1 — Battery



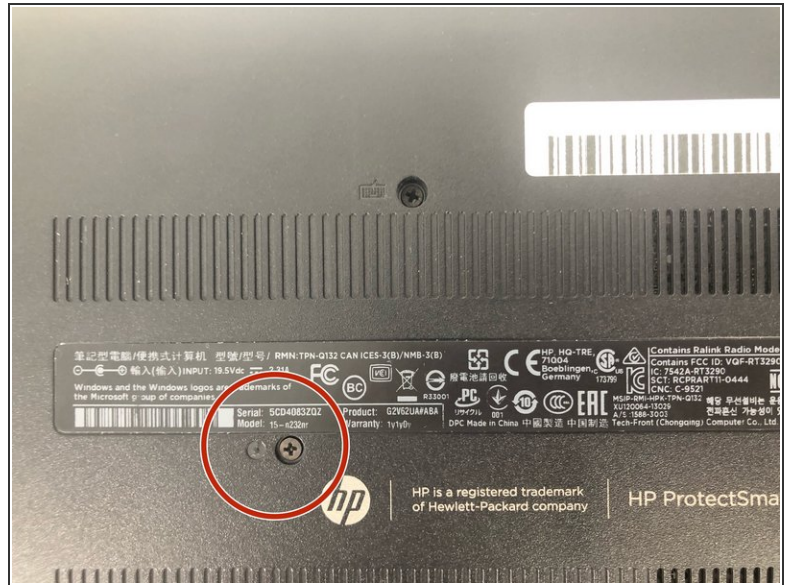
- Flip the laptop over.

Step 2



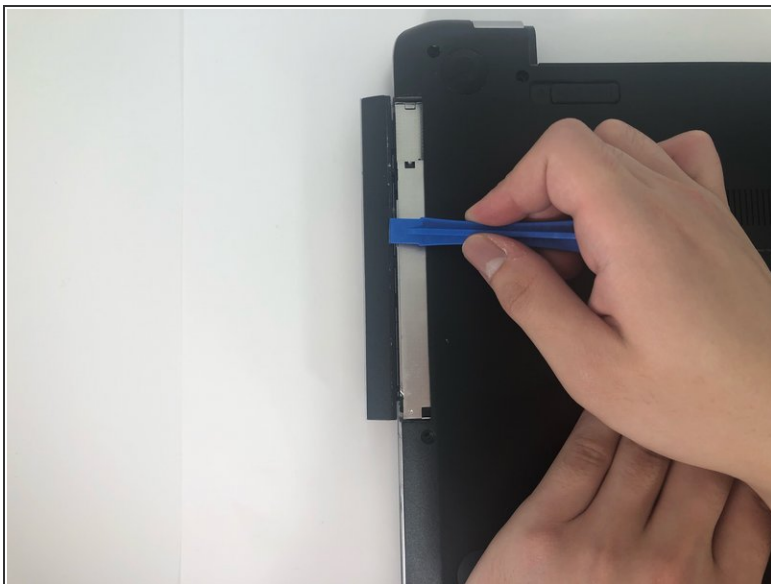
- Slide the battery locks towards the center of the laptop. The battery will detach automatically.
- Remove the battery by sliding it away from the laptop housing.

Step 3 — Optical Drive



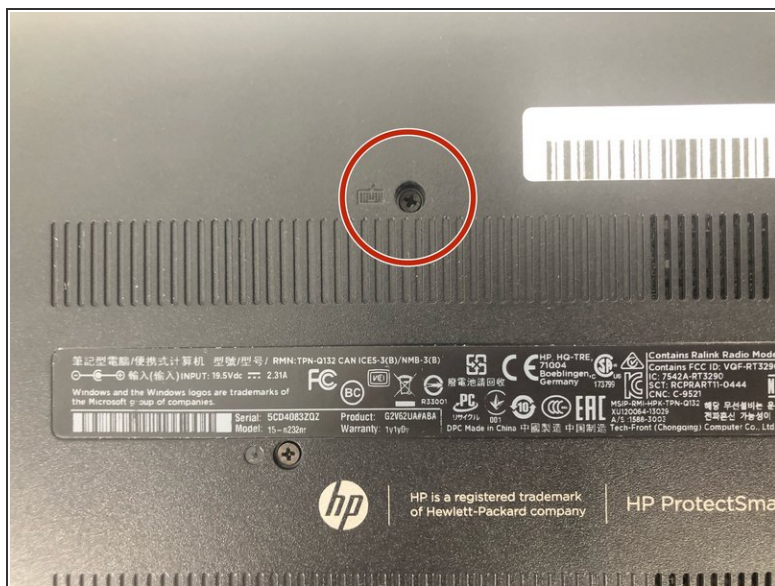
- Remove the 6 mm Phillips #1 screw securing the optical drive.

Step 4



- Use the iFixit opening tool to slide the optical drive away from the laptop housing.

Step 5 — Keyboard



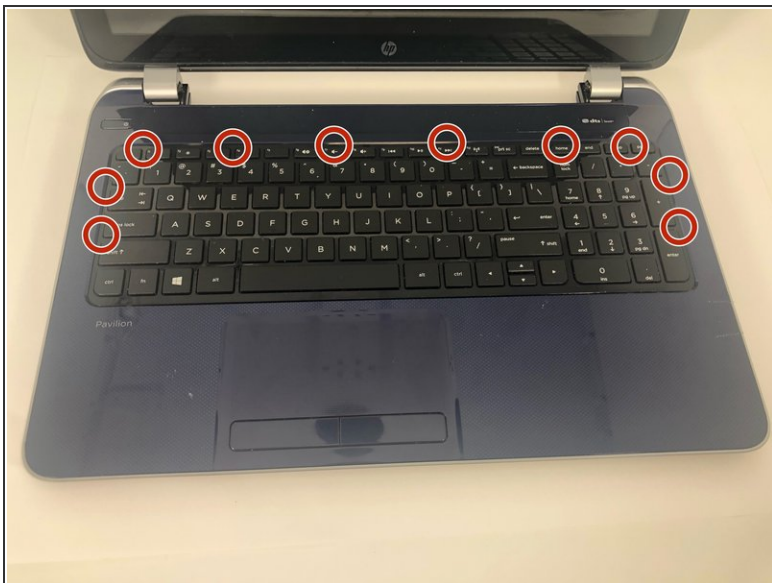
- Unscrew the 6 mm Phillips #1 screw securing the keyboard.

Step 6



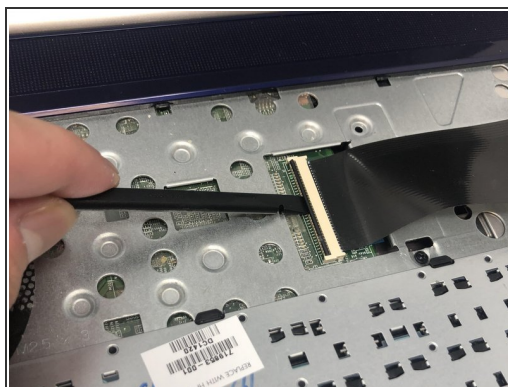
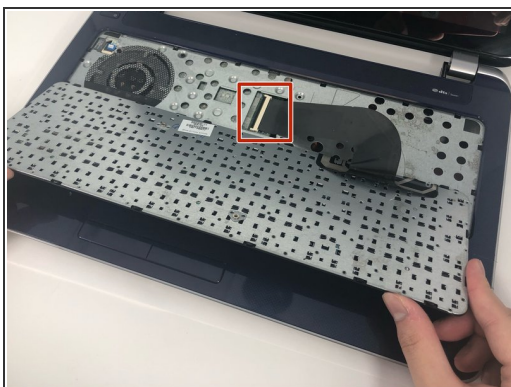
- Flip the laptop to the front side and open it up.

Step 7



- Use the metal spudger to release the keyboard from the front panel.

Step 8



- Flip the keyboard out and locate the connector.
 - Use the spudger to unhinge the the fastener and remove the connector.
- i** Keyboard should be completely detached after this step.

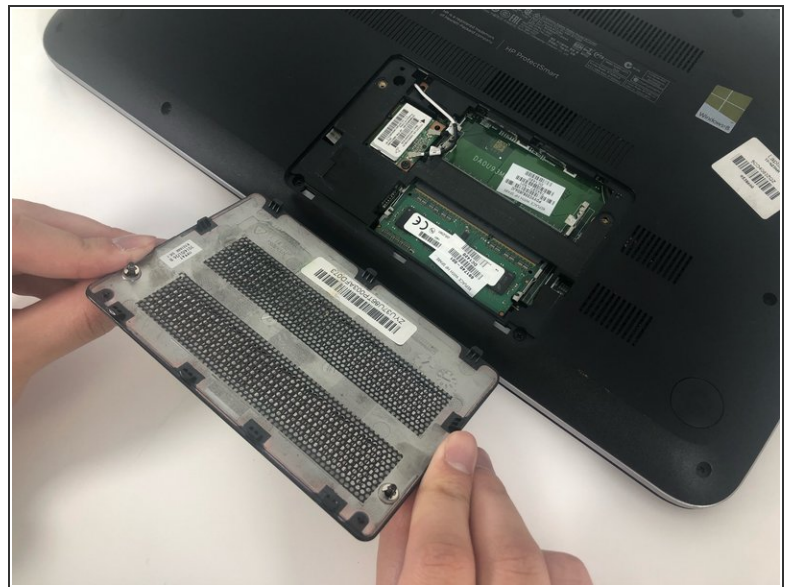
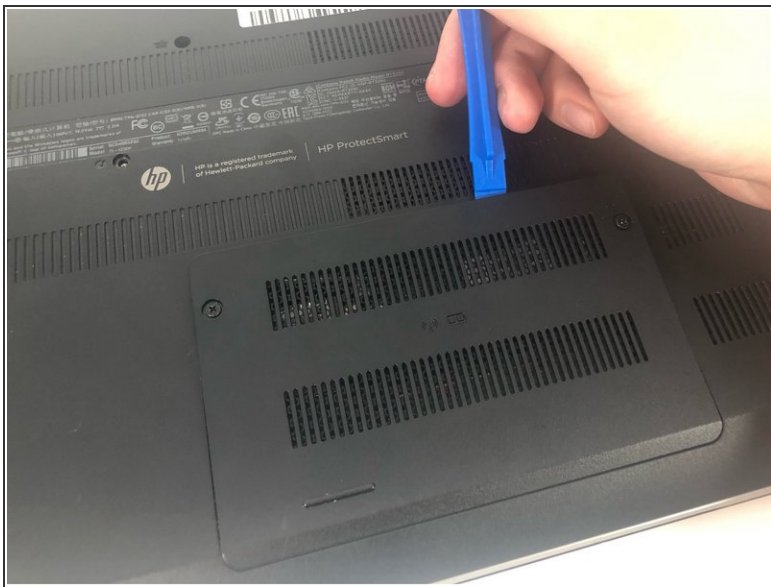
Step 9 — RAM



- Loosen the two 6 mm Phillips #1 screws on the back panel.

i These screws do not detach from back panel.

Step 10



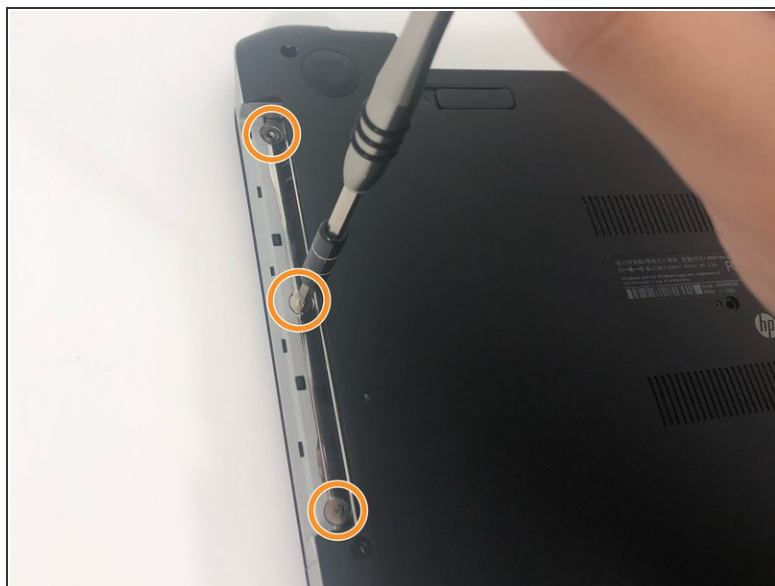
- Use the iFixit opening tool to remove the back panel.

Step 11



- Release the clips securing the RAM by slightly bending them until the RAM is free.

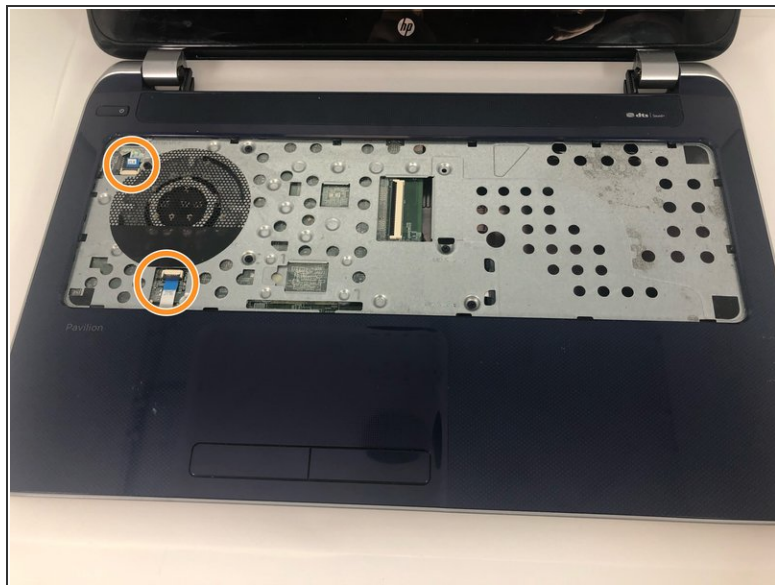
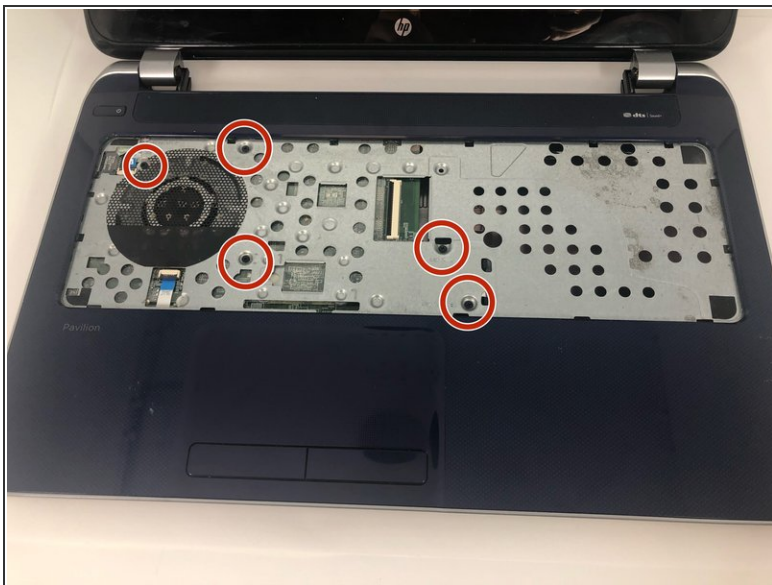
Step 12 — Hard Drive



i The battery and optical drive should be removed at this point in the process.

- Remove the ten 6 mm Phillips #1 screws.
- Remove the three 1 mm Phillips #000 screws.

Step 13



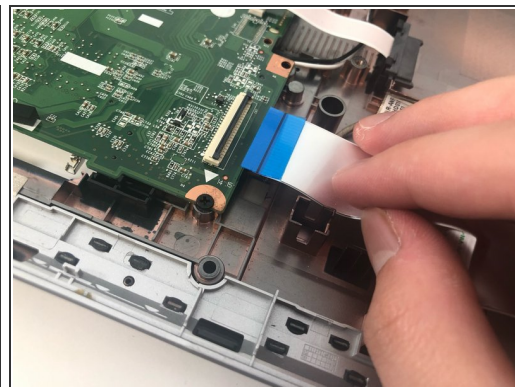
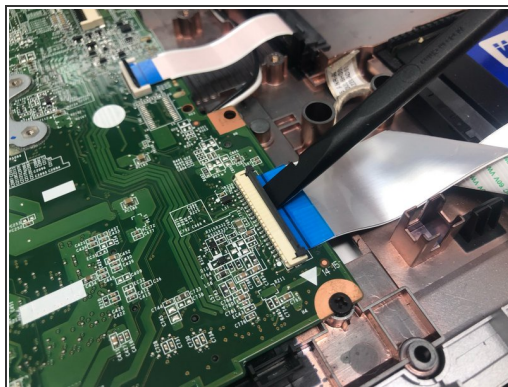
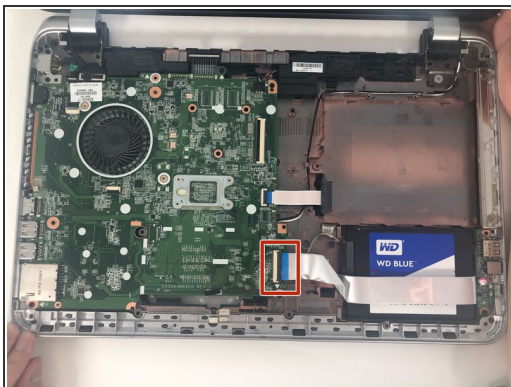
- Remove the five 2.5mm Phillips #1 screws.
- Use the spudger to unhinge the cable connectors. Use tweezers to complete removal.

Step 14



- Carefully use the iFixit opening tool to release the front panel.

Step 15



- Use the spudger to unhook the daughterboard connector.
- Remove daughterboard connector.

Step 16



- Remove the 2.5 mm Phillips #1 screw and remove the daughterboard

Step 17



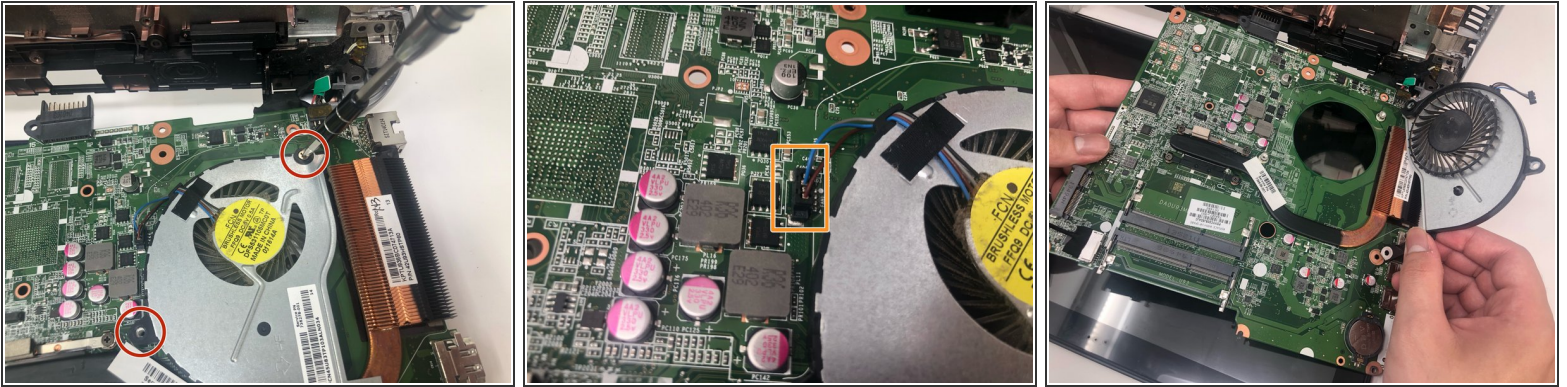
- Use the iFixit opening tool to remove the hard drive connector.
- Remove the hard drive by lifting the right side and pulling it out.

Step 18 — Cooling Fan



- Remove the four 6 mm Phillips #1 screws.
- Turn over the laptop to have easier access to the cooling fan.

Step 19



- Unscrew the two 4 mm Phillips #1 screws.
- Disconnect the cord for the cooling fan.
- Carefully lift the cooling fan from the motherboard.

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