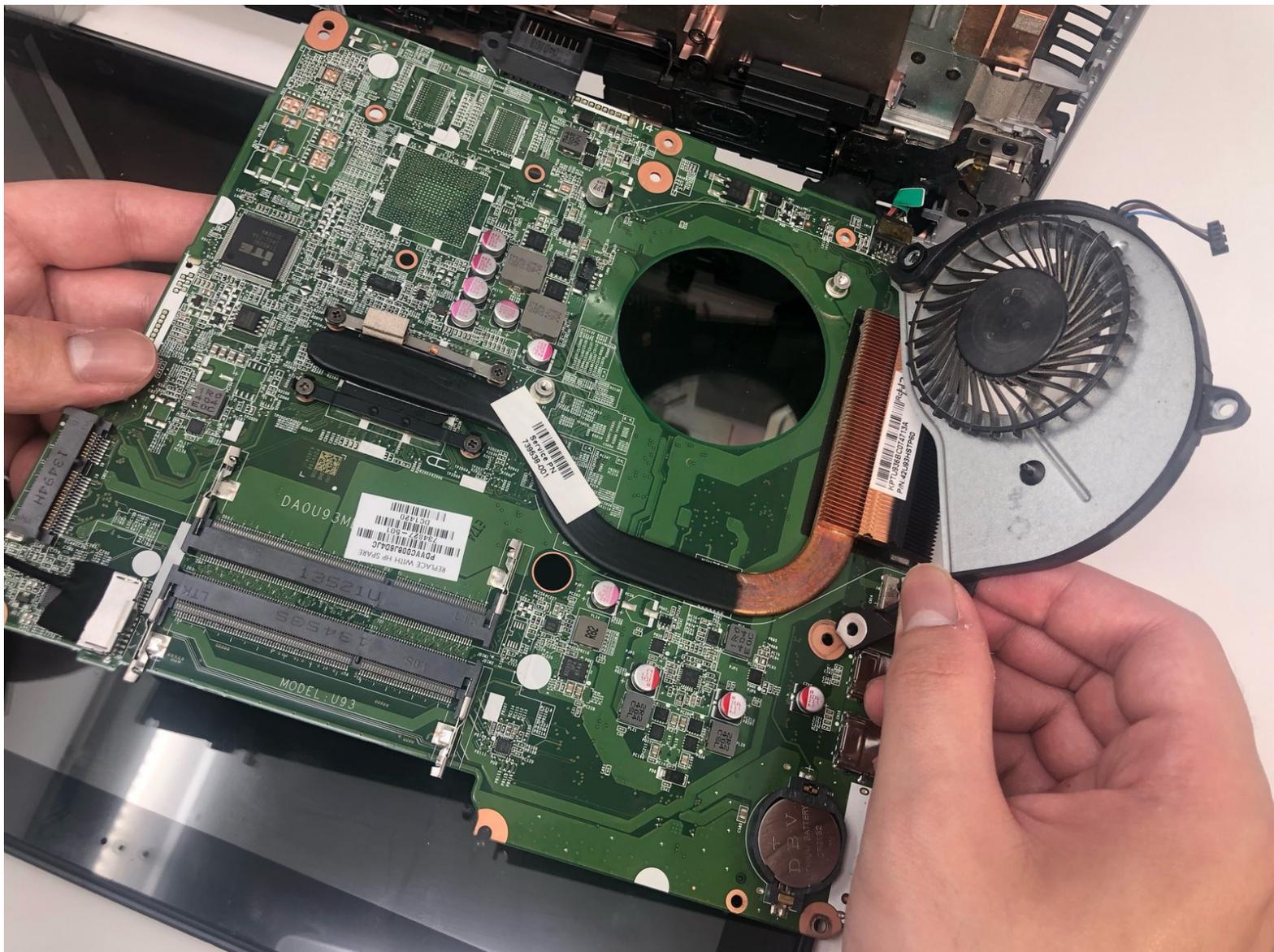




# HP Pavilion 15-n232nr Cooling Fan Replacement

This guide is for users who need to replace the...

Written By: [deleted]



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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.

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### TOOLS:

- [Metal Spudger](#) (1)
  - [Spudger](#) (1)
  - [Tweezers](#) (1)
  - [iFixit Opening Tool](#) (1)
  - [Phillips #1 Screwdriver](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Phillips #000 Screwdriver](#) (1)
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## Step 1 — Battery



- Flip the laptop over.

## Step 2



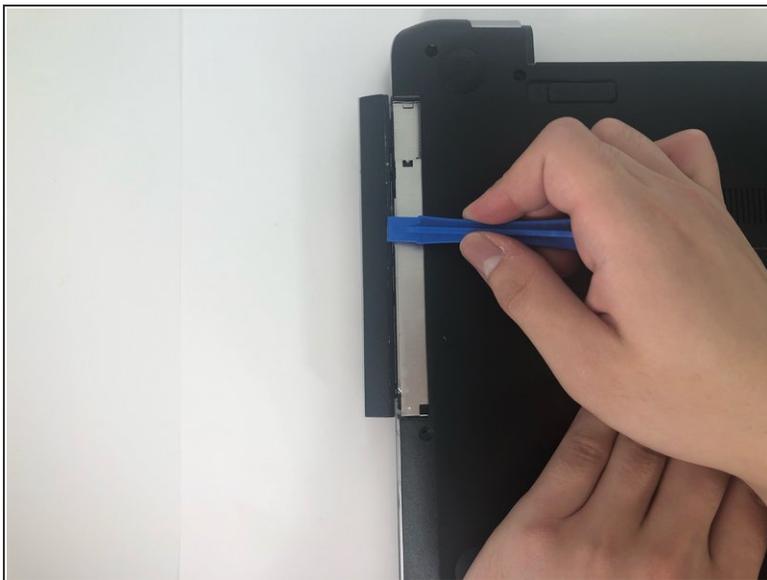
- Slide the battery locks towards the center of the laptop. The battery will detach automatically.
- Remove the battery by sliding it away from the laptop housing.

### 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



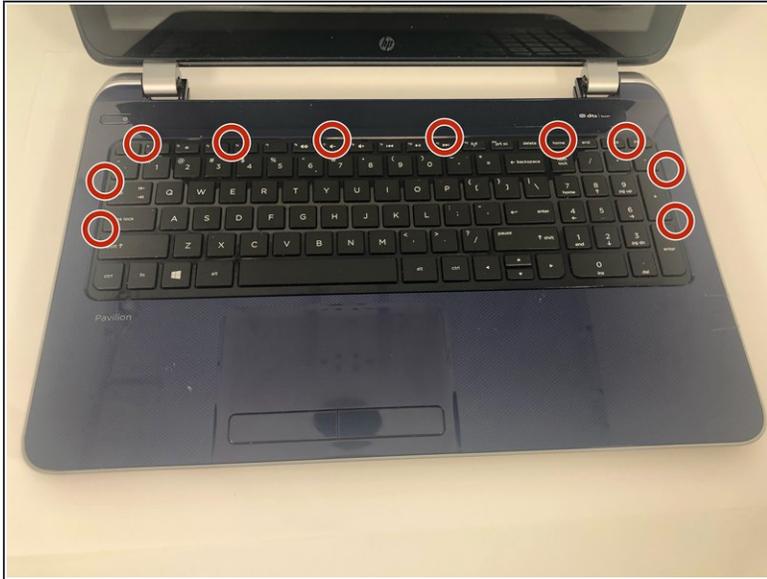
- Unscrew the 6 mm Phillips #1 screw securing the keyboard.

## Step 6



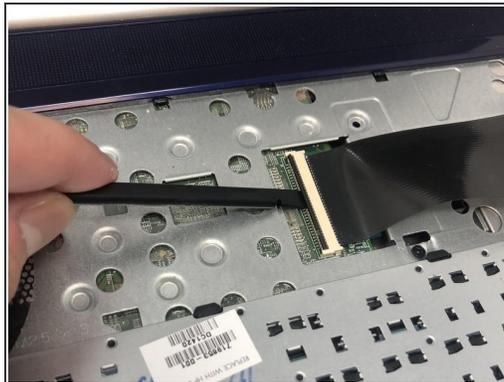
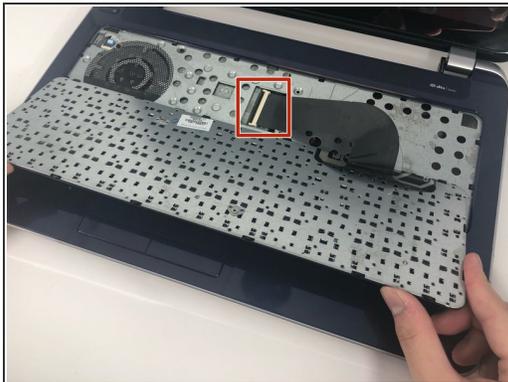
- Flip the laptop to the front side and open it up.

## 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.

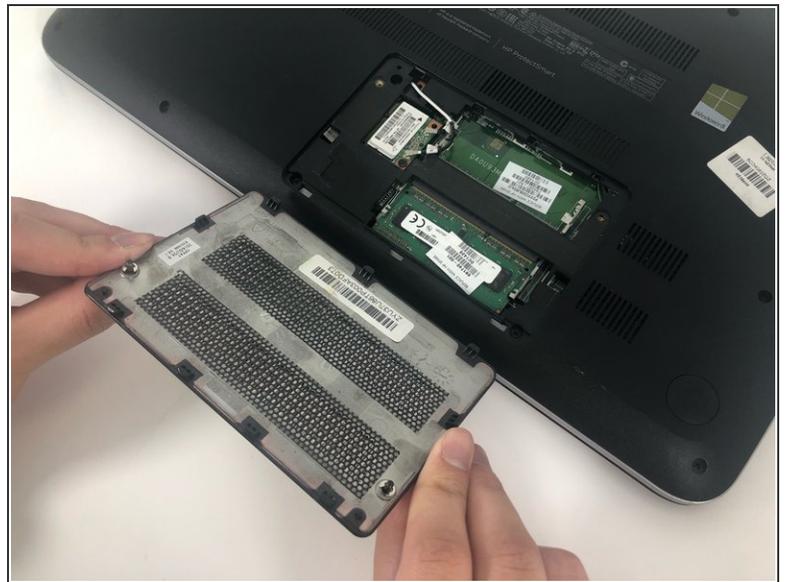
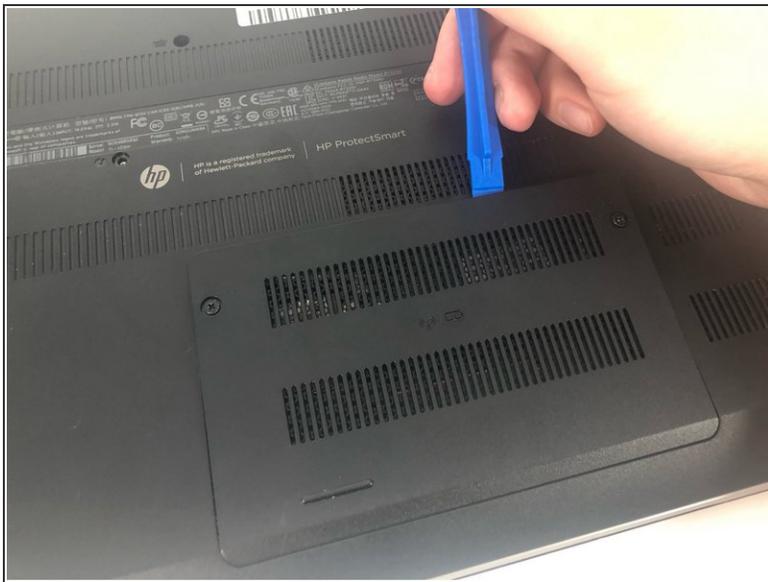
## Step 9 — RAM



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

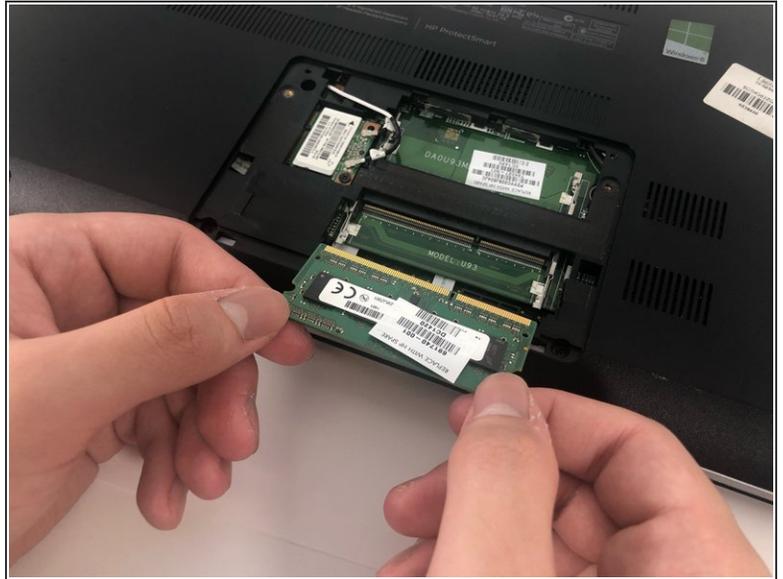
**i** These screws do not detach from back panel.

## Step 10



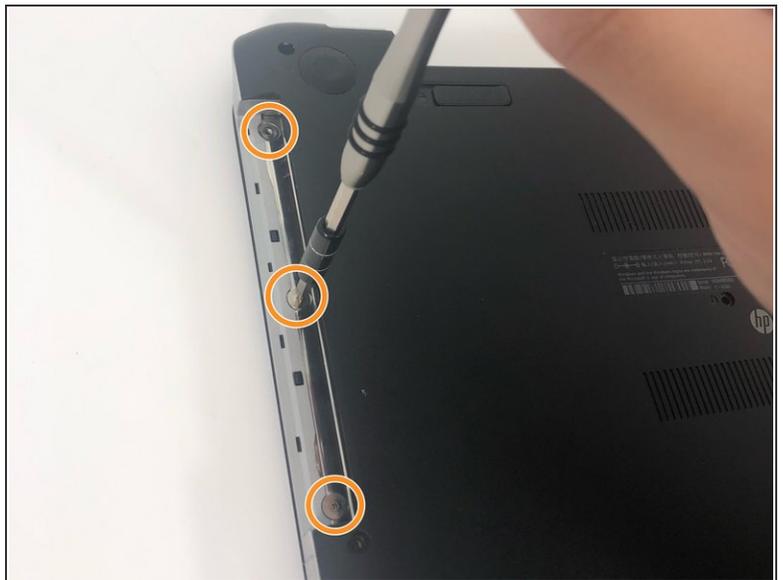
- Use the iFixit opening tool to remove the back panel.

## Step 11



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

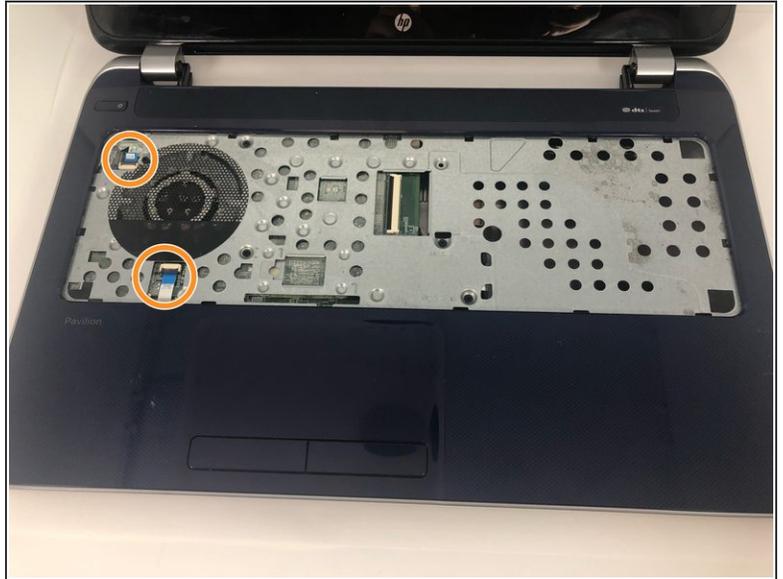
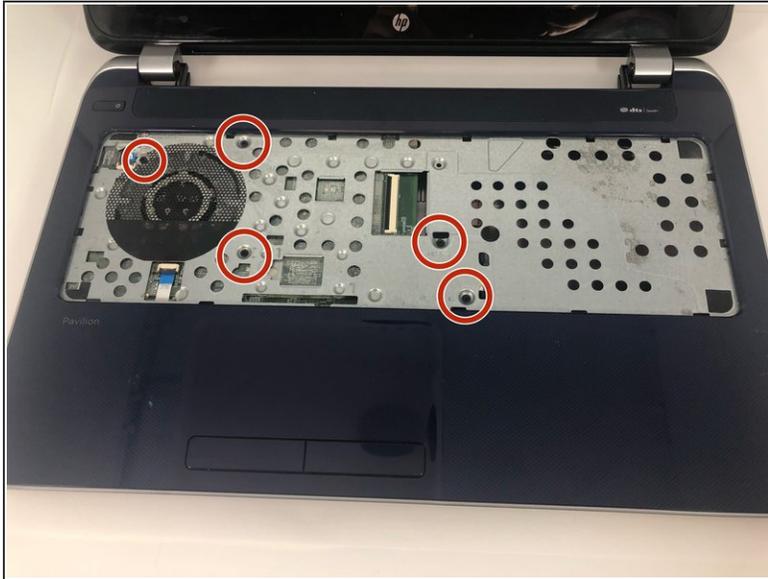
## Step 12 — Hard Drive



**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 unhook the cable connectors. Use tweezers to complete removal.

## Step 14



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

## Step 15



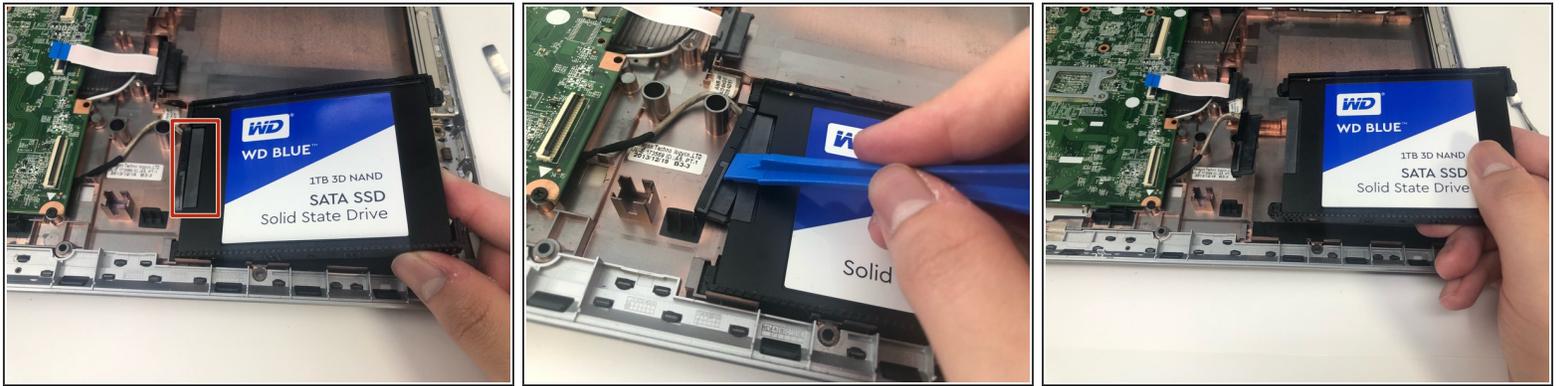
- Use the spudger to unhinge the daughterboard connector.
- Remove daughterboard connector.

## 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.