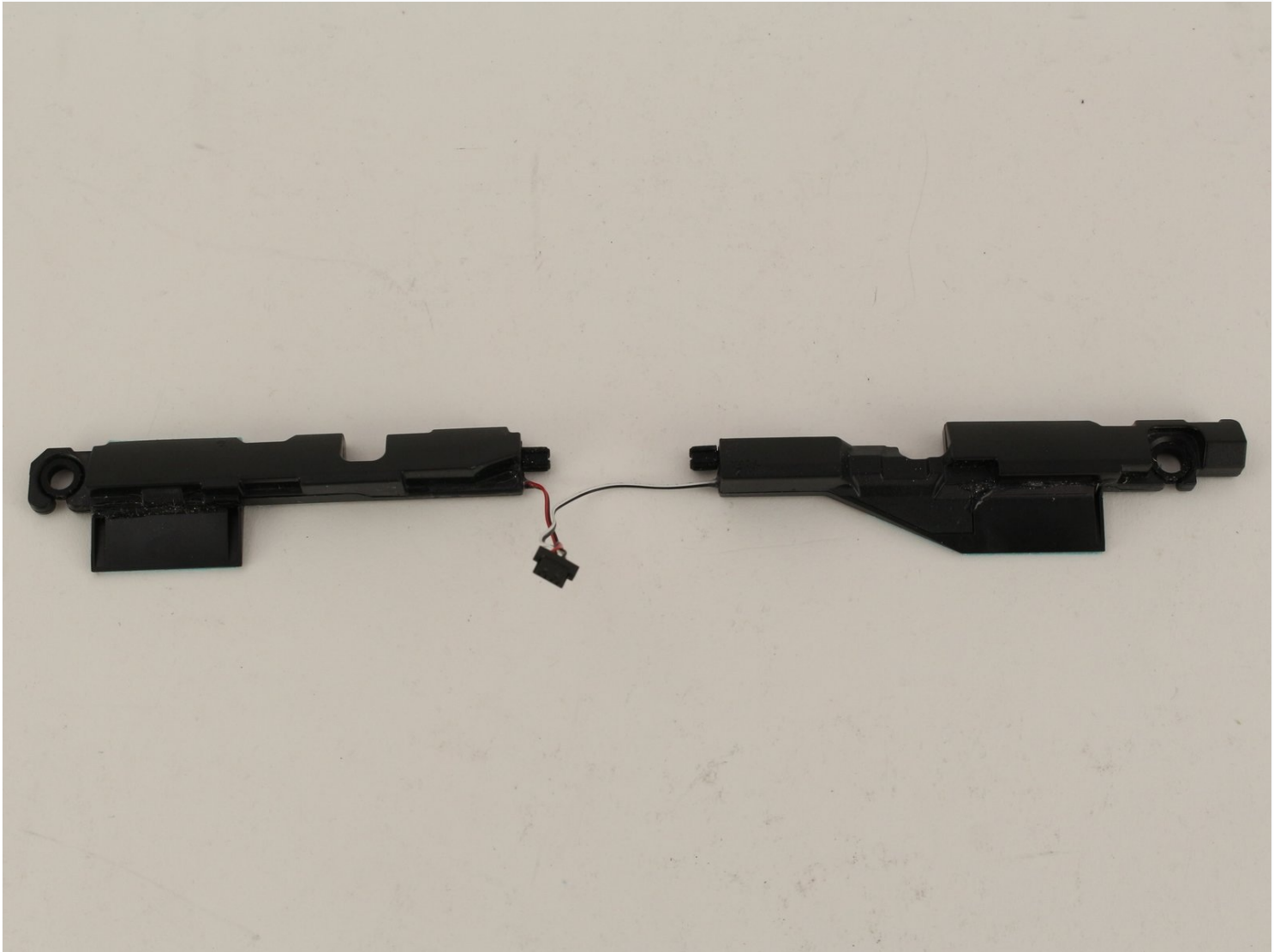




# HP ProBook 450 G4 Speaker Replacement

If there isn't any sound coming out of the HP...

Written By: Sebastian Dow



# INTRODUCTION

If there isn't any sound coming out of the HP ProBook 450 G4 speakers while audio or video is playing this could indicate a problem with your speakers. The buildup of debris and dust is a common cause of faulty speakers so check and make sure that there isn't any buildup in the speakers before using this guide. This guide is designed to help you safely and properly remove your laptop's speakers in an easy to follow way. Before beginning, make sure to power off your laptop and disconnect it from all power sources.

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## TOOLS:

[TR8 Torx Security Screwdriver](#) (1)

[iFixit Opening Tool](#) (1)

[TR9 Torx Security Screwdriver](#) (1)

[Phillips #0 Screwdriver](#) (1)

[Spudger](#) (1)

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## Step 1 — Hard Drive



 **Power your laptop off.**

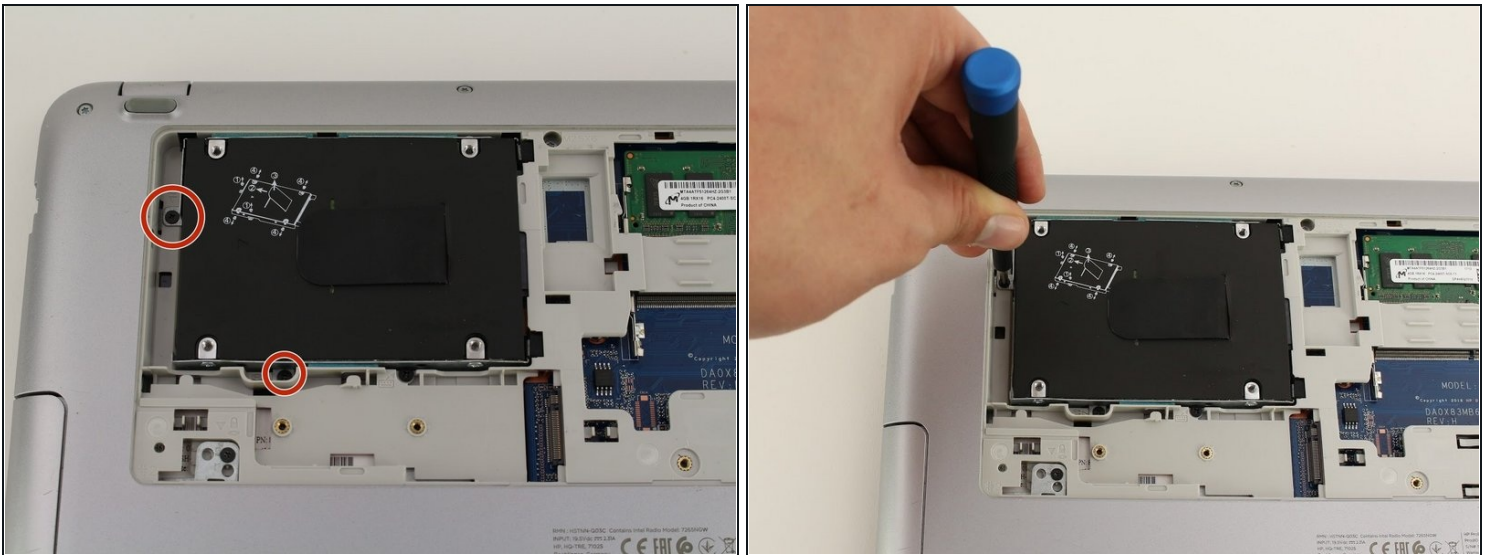
- Flip the laptop over.
- Orient the laptop so the two vents on the bottom face upward and are further away from you.

## Step 2



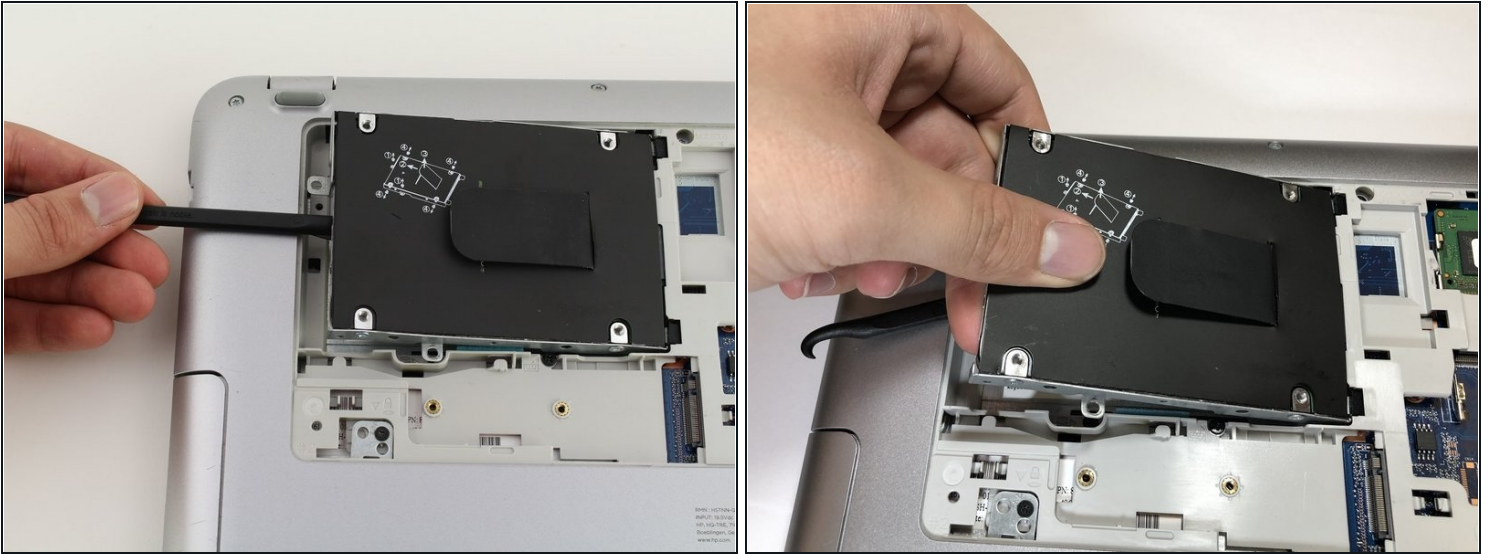
- Use the Phillips #0 screwdriver to remove the 6.8 mm screw that secures the vent panel to the laptop.
- Use the spudger to separate the vent panel from the laptop.
- Slide the vent panel off the backside of the laptop.

## Step 3



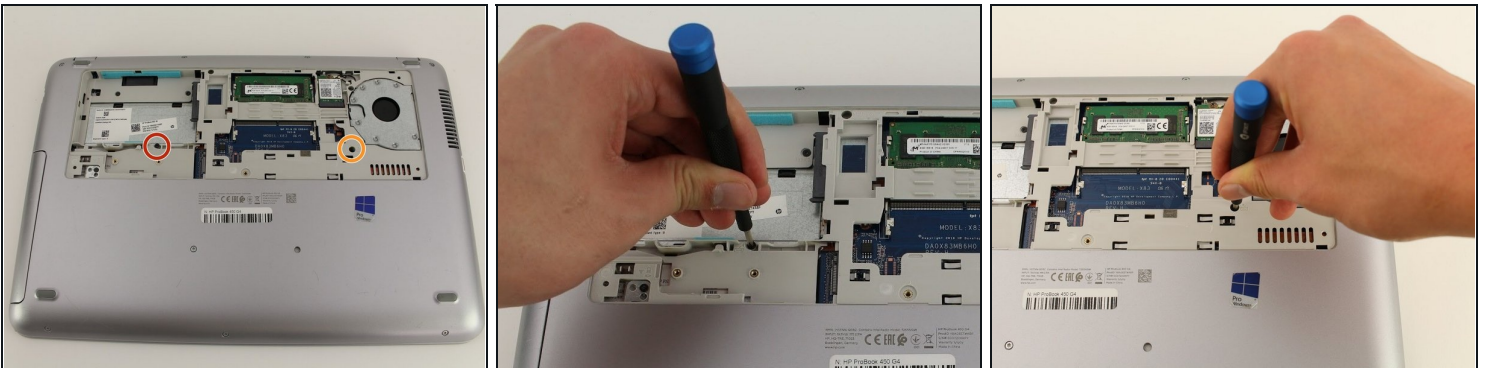
- Use the Phillips #0 screwdriver to remove the black 3.2mm screw that secures the hard drive to the left side of the laptop.

## Step 4



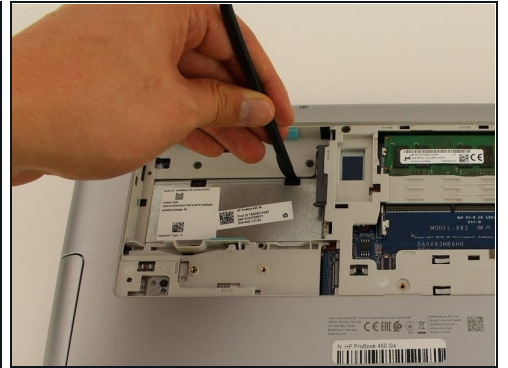
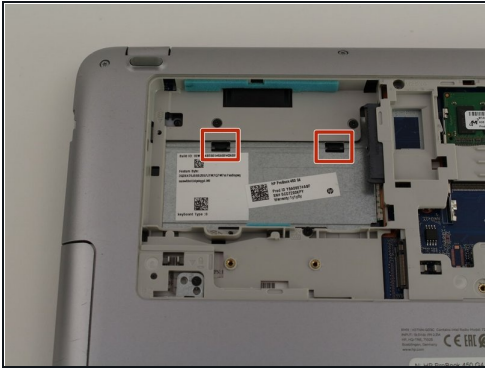
- Use the spudger to lift the left side of the hard drive up.
- Pull the hard drive diagonally to the left to release the hard drive from the laptop.

## Step 5 — Keyboard



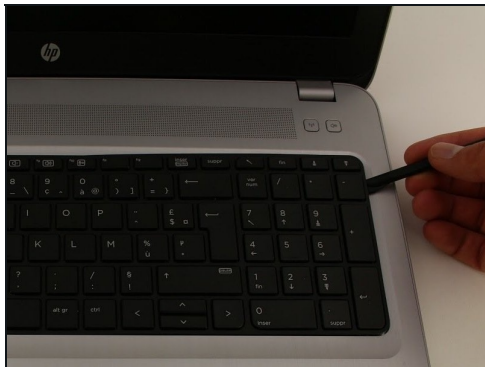
- Remove the 6.6mm T8 Torx screw located below where the hard drive used to be.
- Remove the 6.6mm T8 Torx screw located below and to the left of the circular, silver and black fan.

## Step 6



- Use the spudger to press down on the two black tabs that are underneath where the hard drive used to be.
- Apply pressure to the black tabs until they release and pop out.

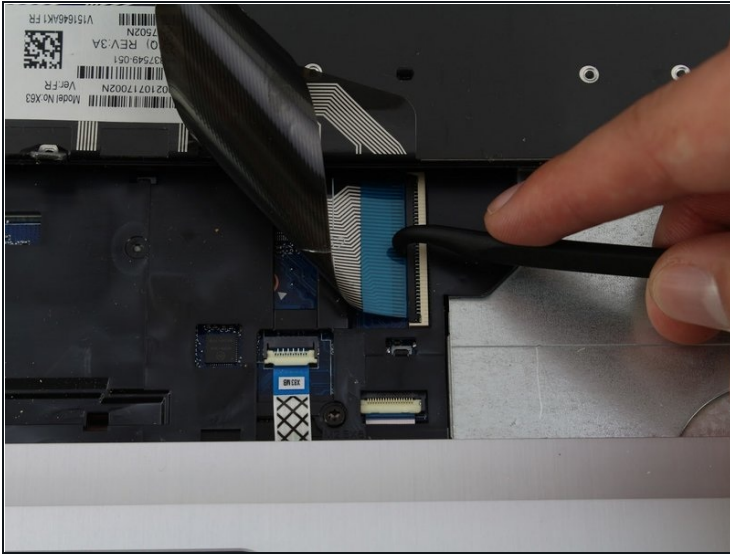
## Step 7



- Orient the laptop so the keyboard is facing upwards and towards you.
- Insert the spudger in between the edge of the keyboard and the computer frame.
- Slide the spudger around the edge of the keyboard until the keyboard is loose.
- Gently pull the keyboard away from the body of the laptop.

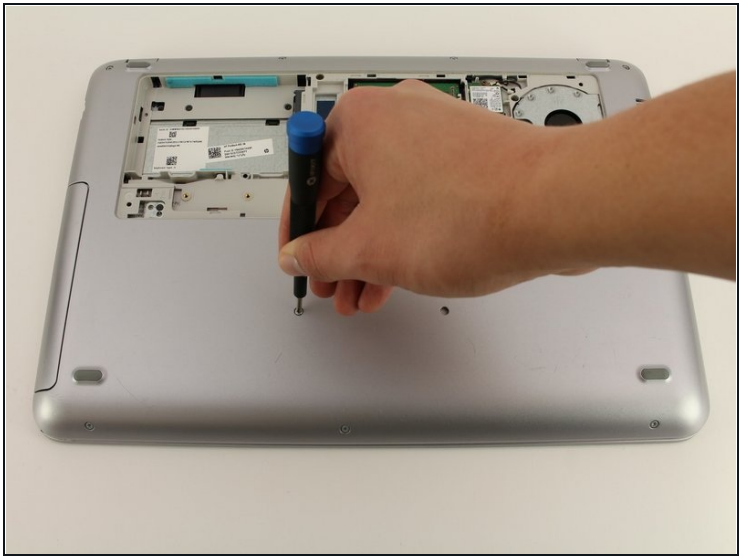
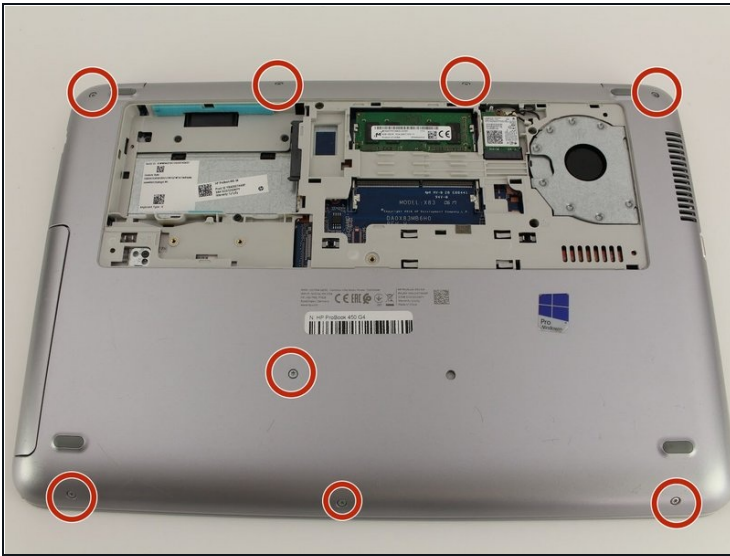
⚠ Do not pull the keyboard all the way off because there is still a connector cable underneath that needs to be disconnected.

## Step 8



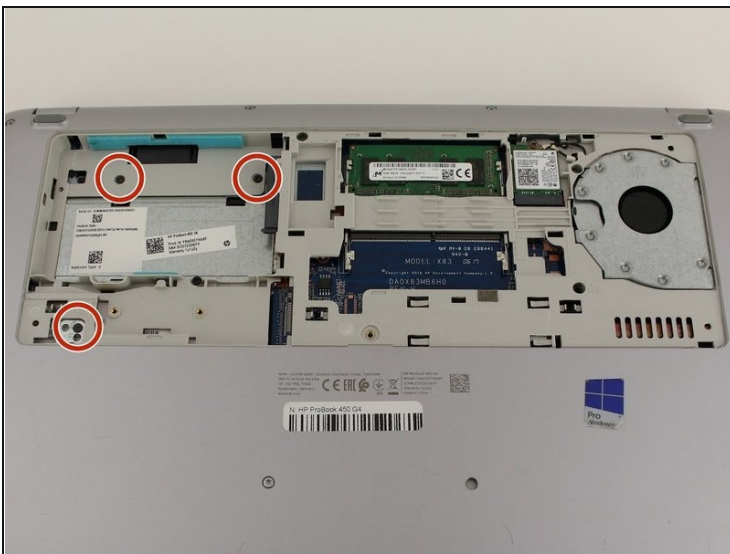
- Use a spudger to gently lift up the black locking bar on the keyboard connector.
  - Slide the keyboard ribbon out of the connector.
  - Remove the keyboard.
- ☒ To re-attach the keyboard ribbon, slide it into the connector and swing the locking bar down.

## Step 9 — Battery



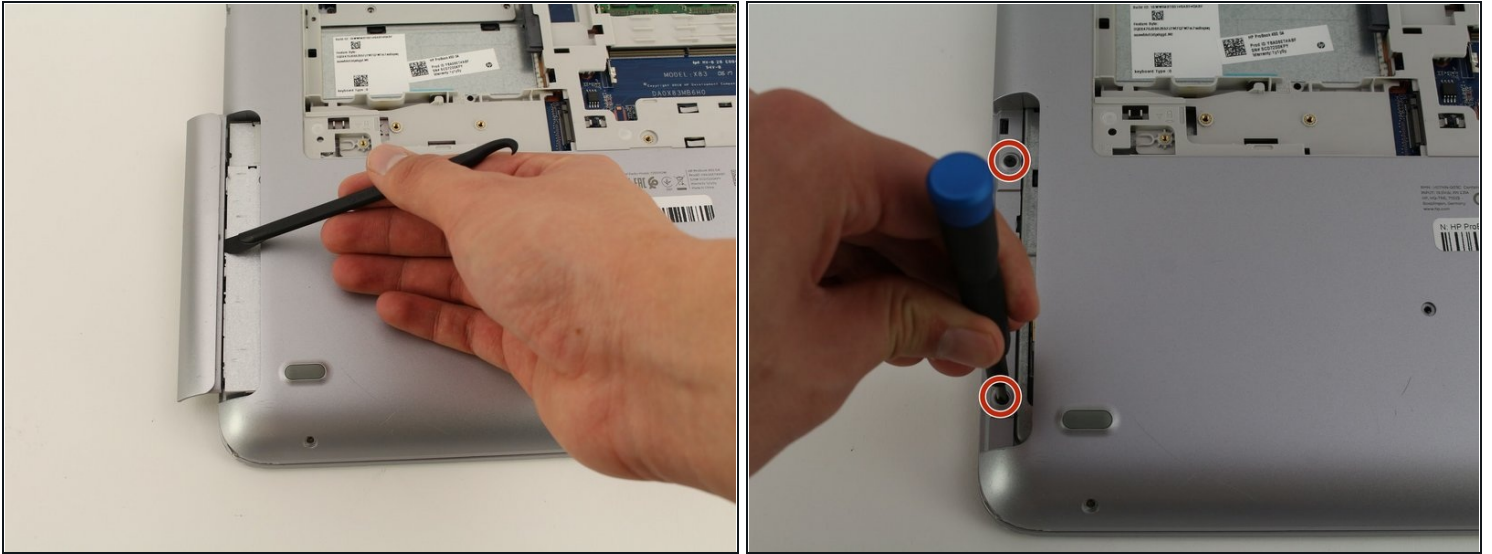
- Flip the laptop back over.
- Remove the eight 6.8mm T8 Torx screws on the backside of the laptop.

## Step 10



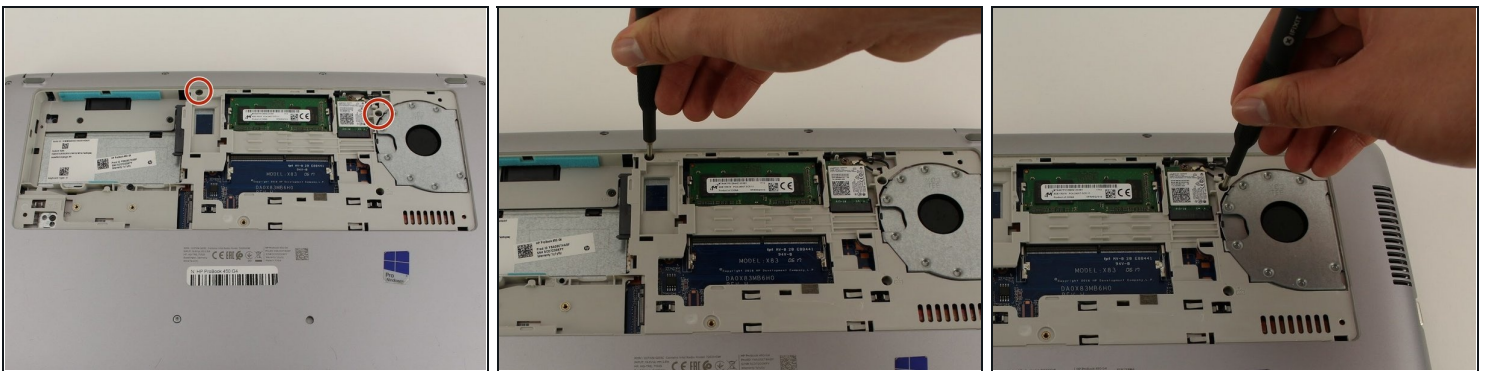
- Use a Phillips #0 screwdriver to remove the three 6.6mm screws from the upper left corner of the laptop.

## Step 11



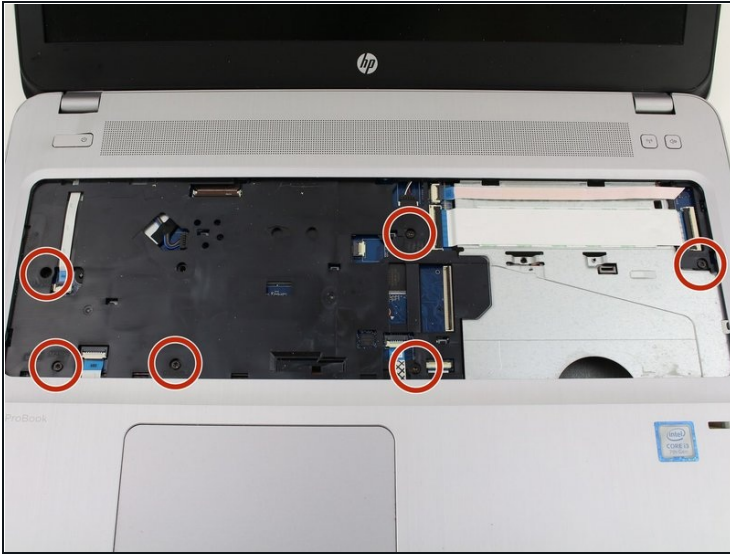
- Use the spudger to slide the disk drive out of the laptop.
- Use the Phillips #0 screwdriver to remove the two 3.2mm screws that are underneath where the disk drive previously was.

## Step 12



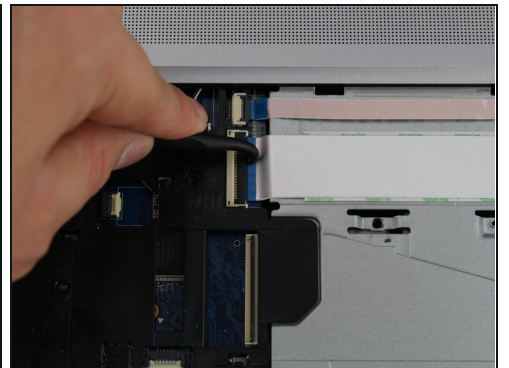
- Use a Phillips #0 screwdriver to remove the two 6.6mm screws.

## Step 13



- Flip the laptop back over so it is facing upwards.
- Remove the six 6.6mm T8 Torx screws underneath where the keyboard used to be.

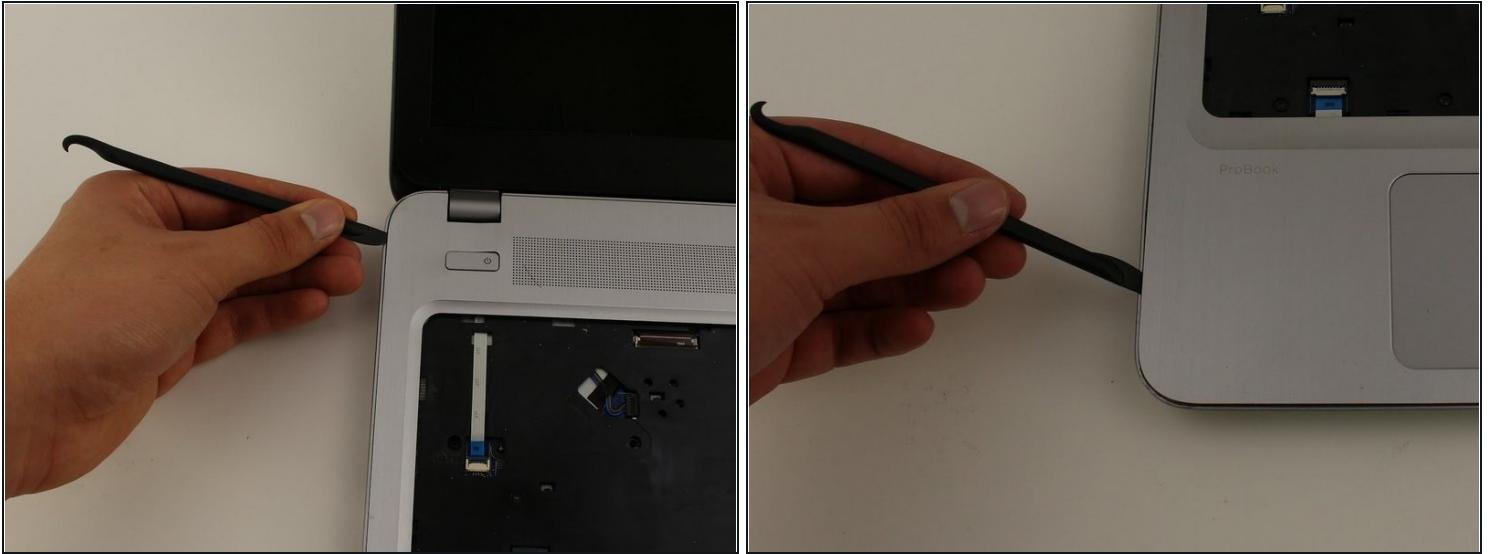
## Step 14



- Use the spudger to disconnect the nine cable connectors that secure the top case of the laptop to the body of the laptop.

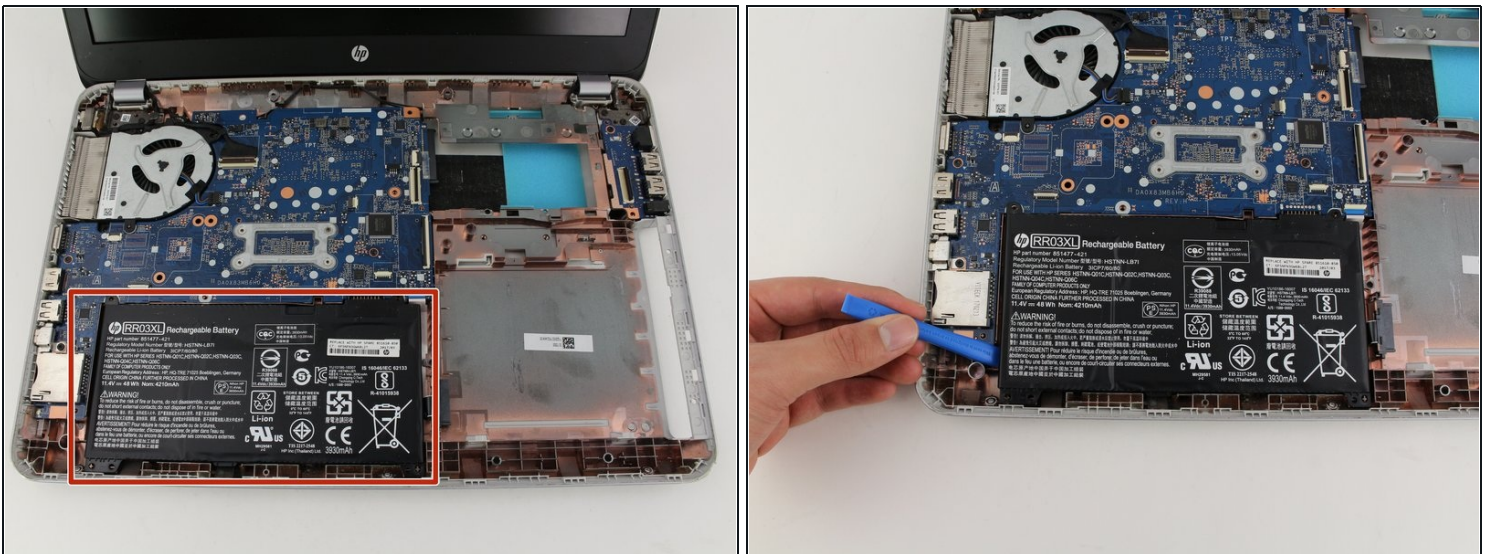
⚠ Be extra careful while disconnecting the cable connectors because they can tear easily.

## Step 15



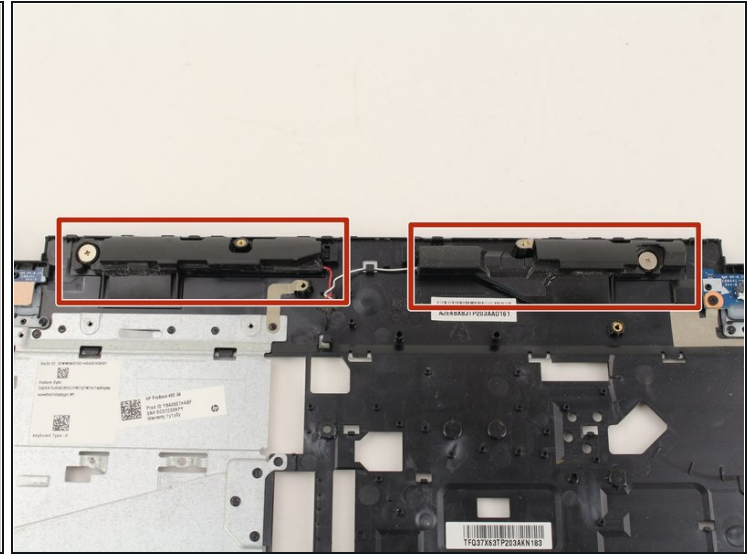
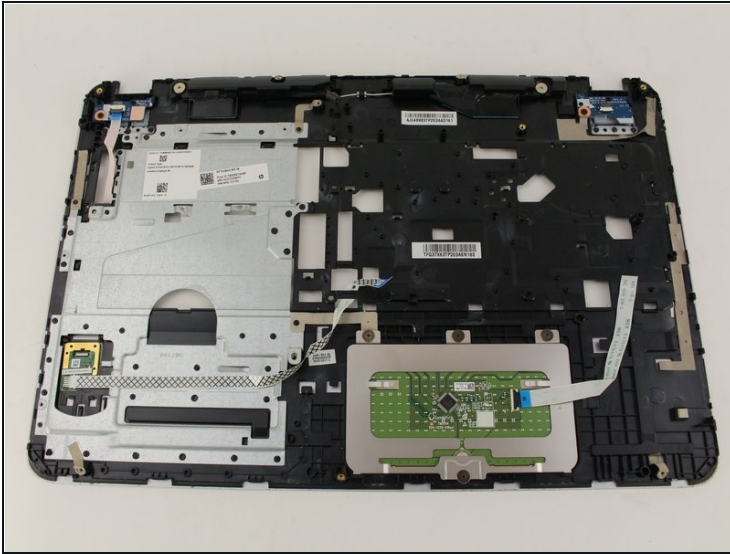
- Insert the spudger in between the top case of the laptop and its outer frame.
- Slide the spudger around the edge of the laptop until the top case comes off.
- Remove the top case.

## Step 16



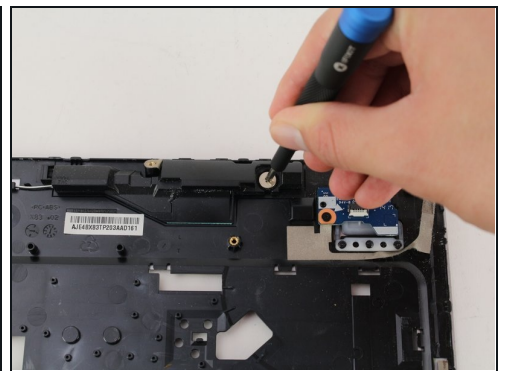
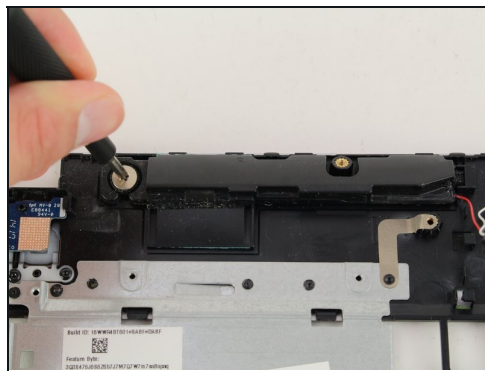
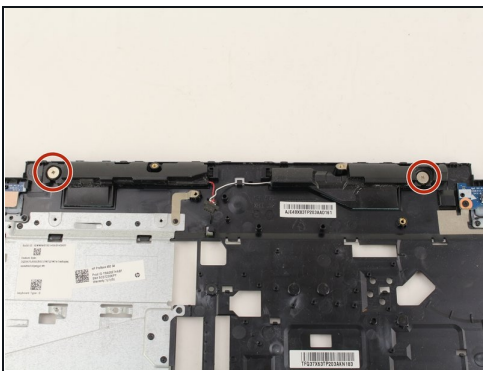
- Insert the opening tool underneath the left side of the battery to remove it from the laptop.

## Step 17 — Speaker



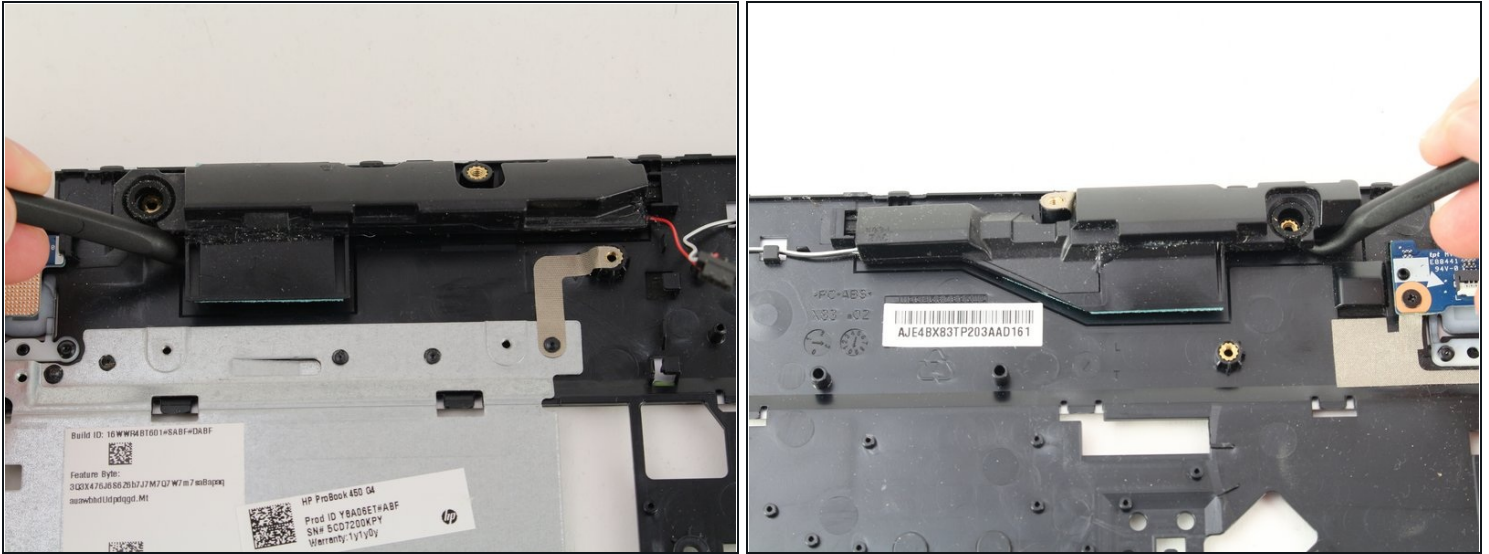
- Orient the top case of the laptop so that the internal parts are facing upwards and green rectangular object is closer to you.
- Identify the two speakers at the top.

## Step 18



- Use the Phillips #0 Screwdriver to remove the two 3.5mm screws connecting the speakers to the top case of the laptop.

## Step 19



- Insert the spudger underneath each speaker to detach them from the top case of the laptop.

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