



# HP 15-ay114cy USB Board Replacement

This guide will show you how to replace your Audio and USB board.

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## INTRODUCTION

If your HP 15-ay114cy (also known as the HP Notebook 15) is no longer detecting wired audio or external devices connected through the USB ports, then you may have a faulty or broken Audio/USB board that needs to be replaced.

When your Audio/USB board is working properly, any wired audio connected to the laptop will receive sound. Also, any external device connected to the laptop through the USB ports will be detected and will work with efficient response time. If your laptop is older, extensive use of the laptop's audio and USB ports can cause them to become damaged and break, resulting in the same symptoms with the Audio/USB board. However, if your laptop is new, it is possible that you may have a faulty Audio/USB board, which can result in the same symptoms from extensive use.

Before removing the Audio/USB board, relate back to this [troubleshooting page](#) for further information about what is causing your symptoms. Moving forward, be sure to follow all prerequisite guides included for dismantling your device.

No special skills are required to remove and replace the device Audio/USB board. However, you will need a plastic opening tool (plastic spudger) as well as a Phillips #0 Screwdriver.

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### TOOLS:

- [iFixit Opening Tools](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
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## Step 1 — Orient the Laptop



- Orient the Laptop so the HP logo is facing the table and the battery tabs are accessible.

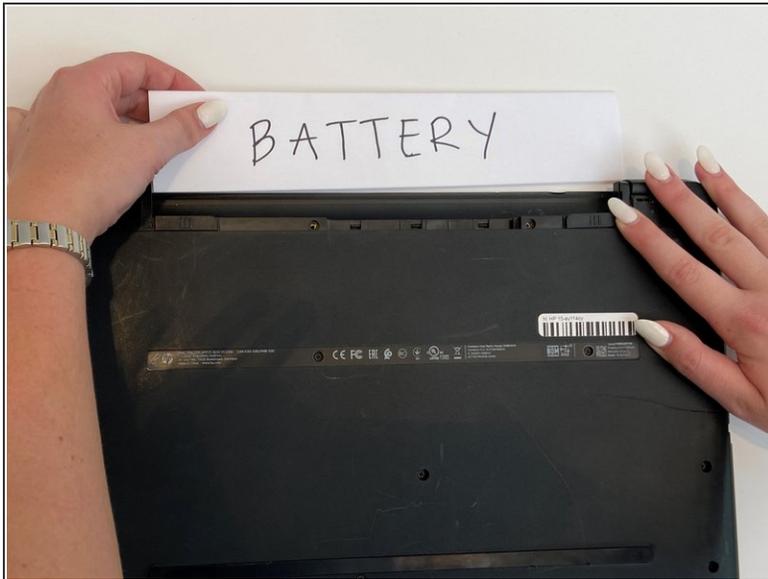
 Ensure the laptop is powered off before moving forward.

## Step 2 — Push out the Battery



- Place your index fingers on each of the two battery holder clips.
- Using your index fingers, push the battery holder clips inwards (towards the center of the laptop).

### Step 3 — Remove the Battery



- After the battery clips are pushed in, use either hand to grab hold of the battery.
- Gently push up to remove the battery.

### Step 4 — Unscrew the Back Cover



- Use a Phillips #0 screwdriver to remove the 8 mm Phillips-head screws that are holding the bottom cover of the Laptop.

## Step 5 — Remove the Disk Drive



- Grab a hold of the disk drive and carefully pull it away from the computer.
- Continue to slide the disk drive out of the laptop until fully removed.
- ⓘ Due to the removal of the battery, no power is available to open the disk drive through the use of the eject button.
- ⓘ Make sure to pull out the disk drive at a 90 degree angle as demonstrated. Do not attempt to wiggle the drive out of the laptop.
- ⚠ There will be resistance when removing the drive. Mishandling may cause broken wires, which could make your disk drive inoperative.

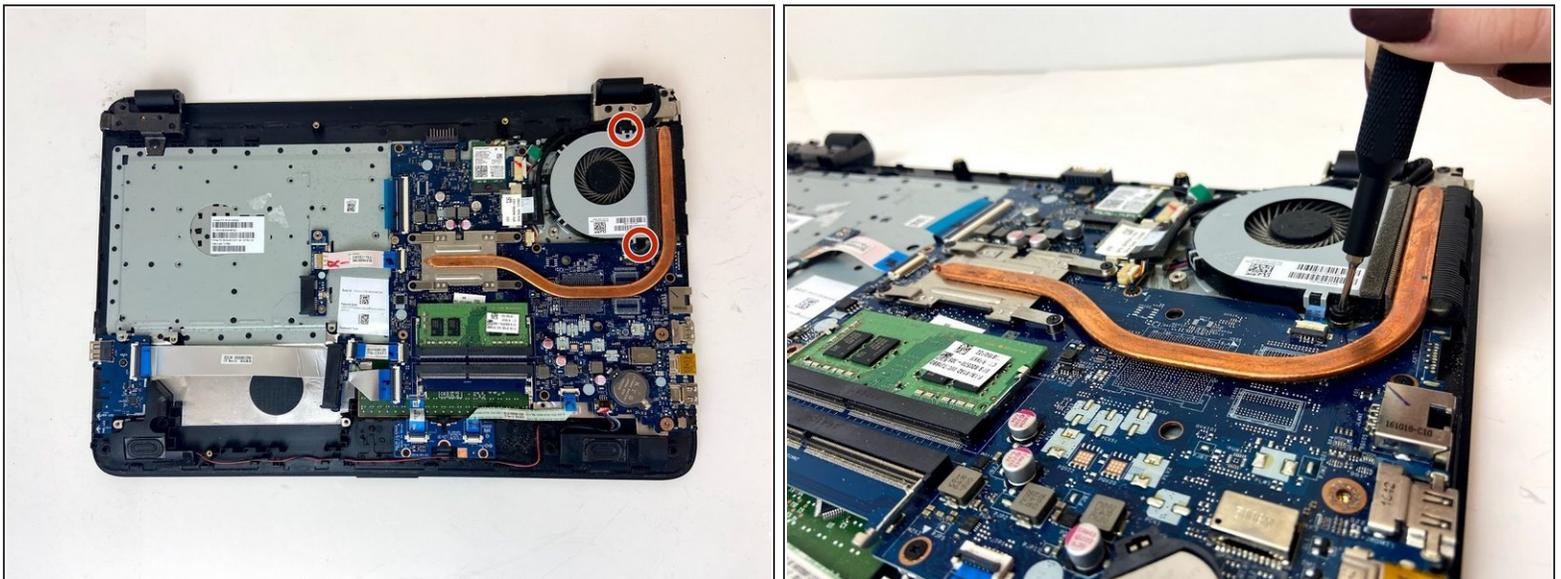
## Step 6 — Remove the Back Cover



- Place a plastic opening tool in-between the upper and lower pieces of the bottom cover.
- Using your hands and the plastic opening tool, gently separate the cover from the frame.
- Slowly remove the bottom cover from the base of the laptop.

⚠ Using metal pry tools can damage your device.

## Step 7 — Remove the Fan Screws



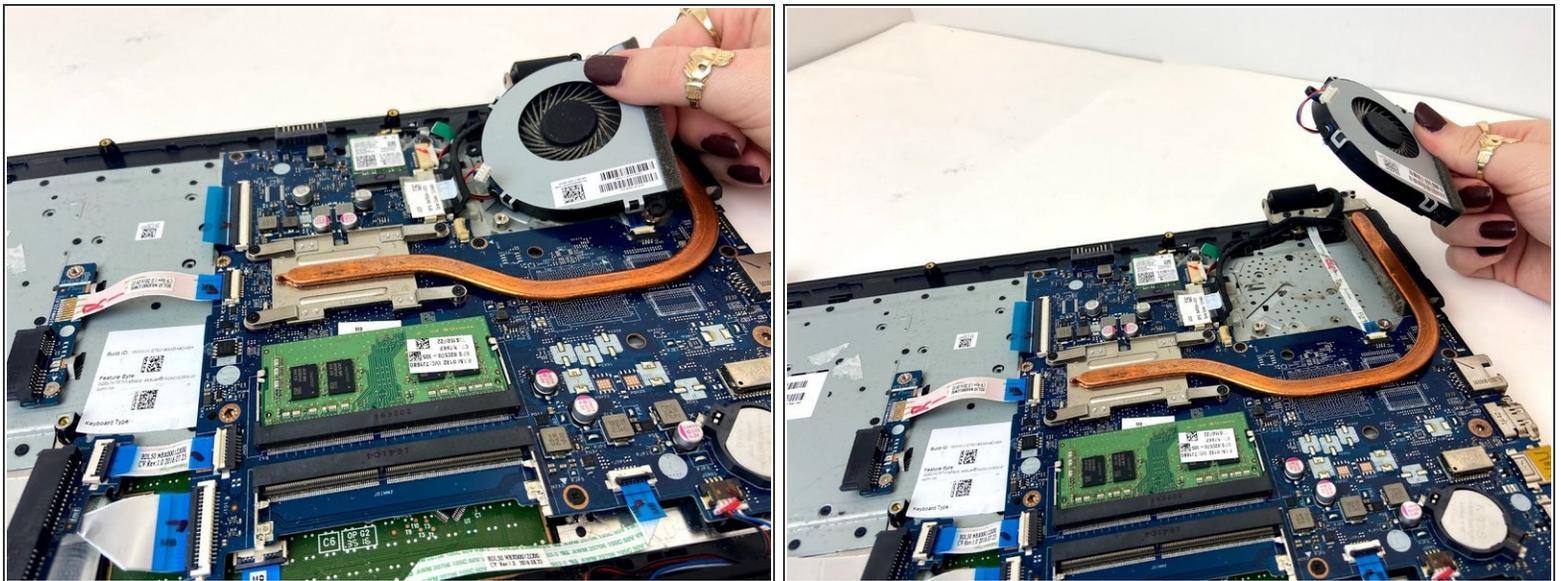
- Use a Phillips #0 screwdriver to remove the 8 mm Phillips-head screws that attach the fan to the base.

## Step 8 — Remove the Fan Wire



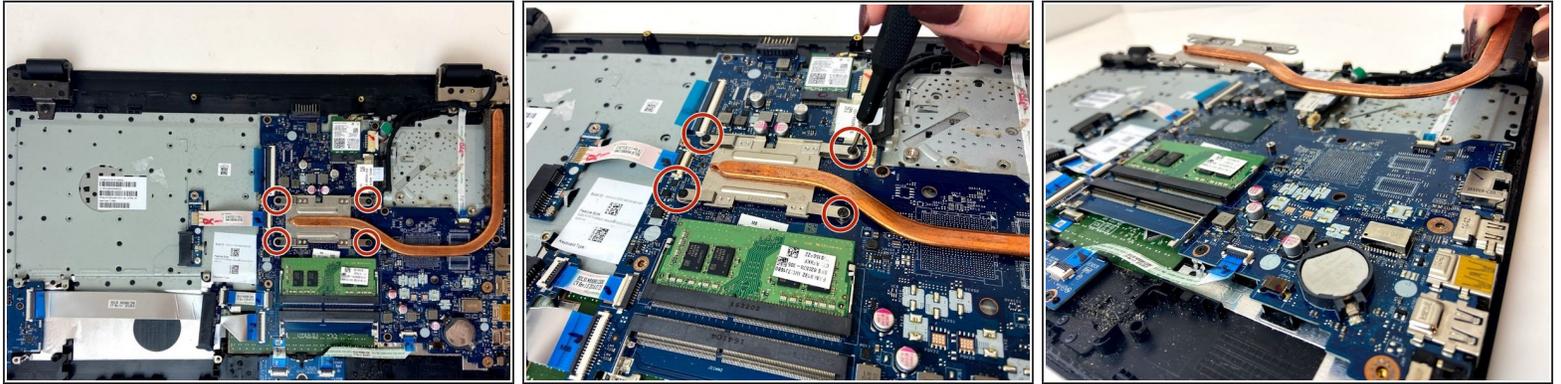
- Using your index finger and thumb, carefully grab the wire that connects the fan to the motherboard.
- Using a bit of force, remove the wire from the laptop.

## Step 9 — Remove the Fan



- Using your hand, grab one of the fan corners and pull up.
- Carefully remove the entire fan from the base of the laptop.

## Step 10 — Remove the Laptop Vent



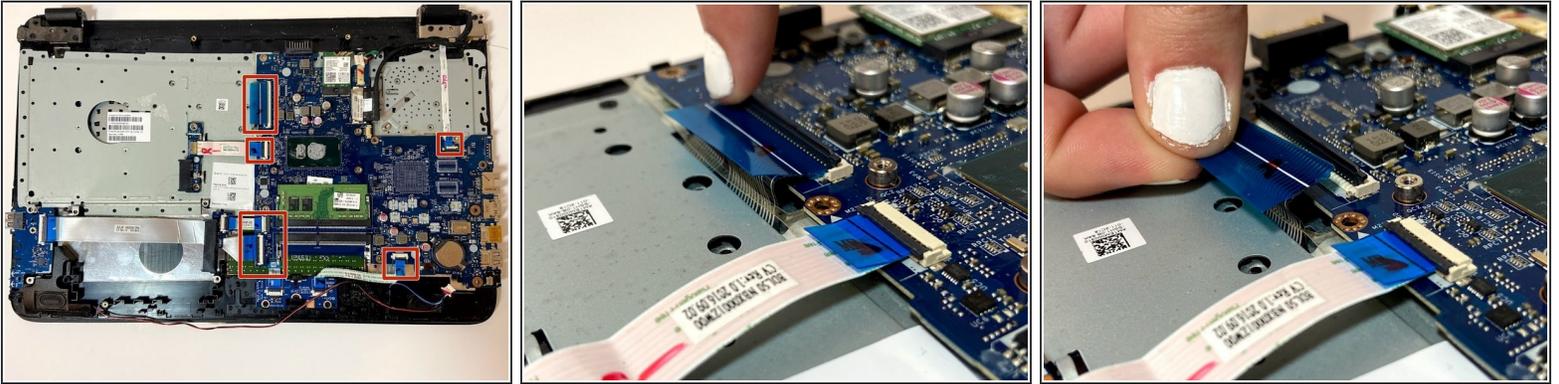
- Using the Phillips #0 screwdriver, unscrew the 2 mm Phillips-head screws that secure the laptop vent to the laptop base.
- Grasp one end of the vent and then carefully lift to remove it from the laptop base.

## Step 11 — Remove the Speaker Wire Connection



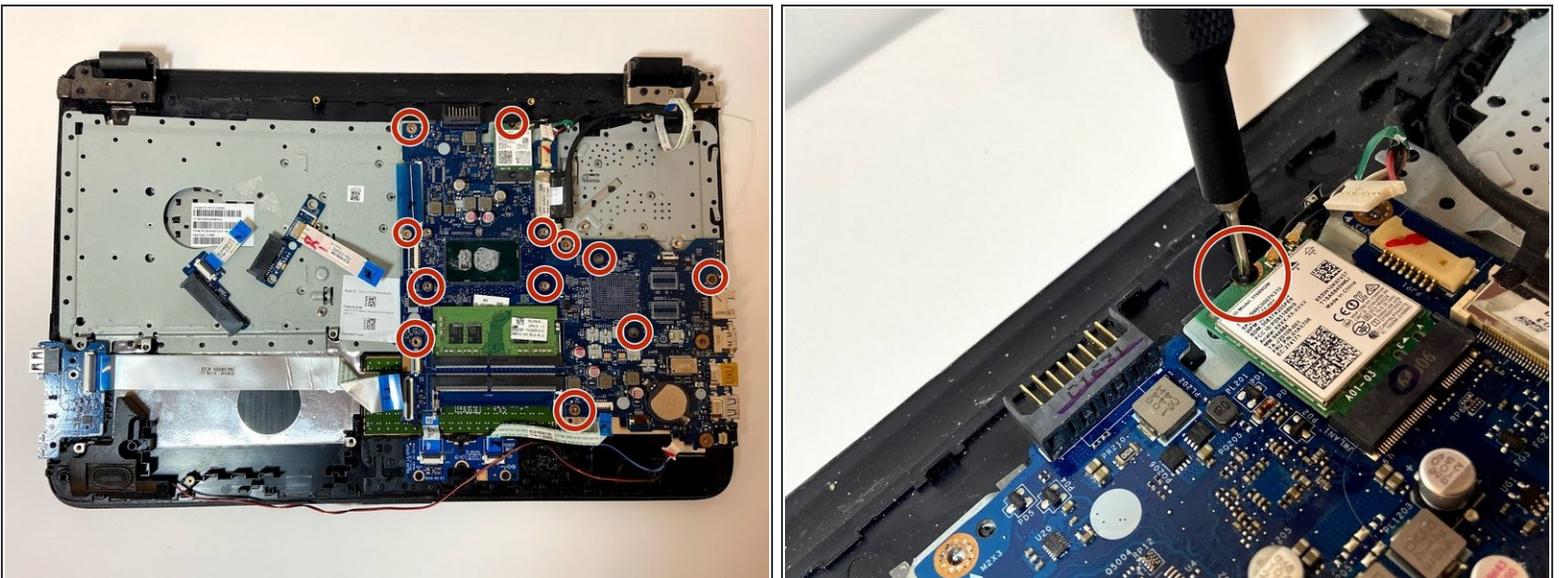
- Using your index finger and thumb, gently grasp the Audio/USB board wire connection.
- Forcibly pull back on the wire connection to remove the speakers and wires from the Audio/USB board.

## Step 12 — Remove the Wired Connections



- Place your index finger on the plastic ridge of each of the 7 blue tab indicators connected to the Audio/USB board.
- Using your index finger, lift up the black tabs to release the connection.
- Gently pull the wired connections from the Audio/USB board.

## Step 13 — Remove the Screws from the Base



- Using a Philips-head #0 screwdriver, unscrew the 2 mm Phillips-head screw that secure the Audio/USB board to the laptop base.

## Step 14 — Remove the Wireless Card



- Use your index finger and thumb to gently grasp the green wireless card then pull the card back by lifting up and out away from the Audio/USB board.

## Step 15 — Remove the Audio/USB Board



- Use your index finger and thumb to gently grasp the Audio/USB board's power connection and remove it from the Audio/USB board.
- Carefully grasp an end of the Audio/USB board and gradually lift it up and away from the laptop.

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