



# HP 15-ay052nr Fan Replacement

How to replace an HP 15-ay052nr fan.

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## INTRODUCTION

Use this guide to replace a broken fan that is showing signs of overheating, loud whirring noises, or odd smells.

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### TOOLS:

- [JIS #0 Screwdriver](#) (1)
  - [iFixit Opening Tools](#) (1)
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## Step 1 — Battery



**⚠** To protect the device and yourself, make sure your device is completely powered down before disassembling. Disconnect all external devices before starting any tear down process.

- Turn the device and lay it upside-down on a flat surface so the base of the computer is facing upwards.

## Step 2



- Identify the two (2) sliding lock mechanisms on either side of the battery and slide them towards the center.
- i** The sliders are located at the back of the device on the side where the display hinges are.
- i** The slider closest to the optical drive (CD reader) clicks open but the opposite slider has a spring.

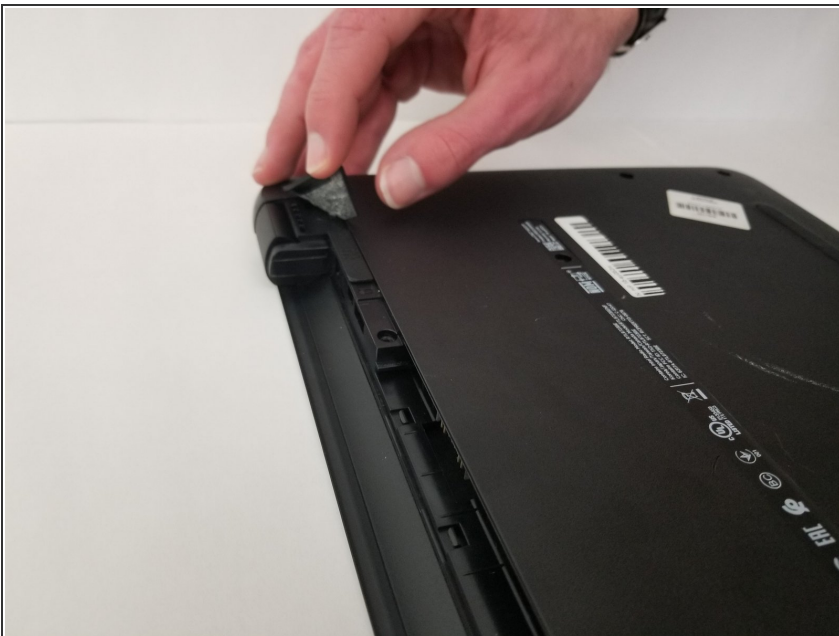


## Step 3



- Pull the battery slightly up and out to remove.
- ⓘ If the battery doesn't pop out, the sliders weren't pushed in far enough. Push the sliders towards the center until the battery pops out.

## Step 4 — Bottom Cover



- Remove the rubber feet on the bottom of the device to access all the screws.
- ⓘ There are two rubber feet, one on each side of the battery compartment.

## Step 5



- Unscrew the twelve 9 mm JIS #0 screws on the back of the device.
- Gently remove the optical drive (CD reader) to more easily separate the base.

## Step 6



- Unclip the keyboard surface from the base using an iFixit opening tool around the entire border.

## Step 7



- Separate the base of the computer from the component assembly.
- ⓘ The optical drive can be placed in the base where it corresponds to prevent misplacing it.

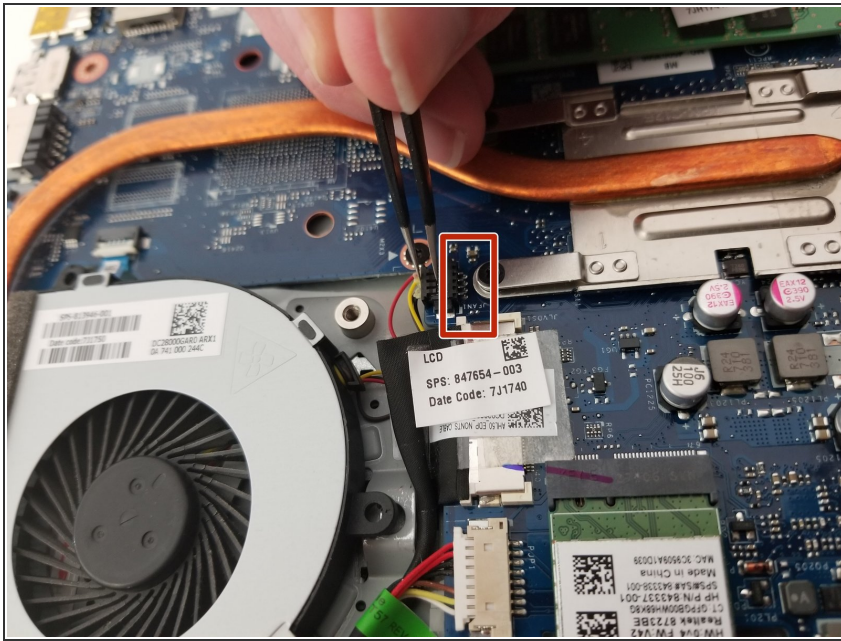
## Step 8 — Fan



- Remove the two 6.5 mm JIS #0 screws holding the cooling fan to the base.
- ⓘ The base is the side by the heatsink, which is made of copper.



## Step 9



- Unplug the fan cable from the motherboard.
- ⓘ The fan can now be removed.

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