



# Asus U47VC-DS51 Cooling Fan Replacement

If your computer is constantly shutting off and running hot , you might need to replace the cooling fan.

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## INTRODUCTION

This guide demonstrates how to replace the cooling fan by first removing the motherboard.

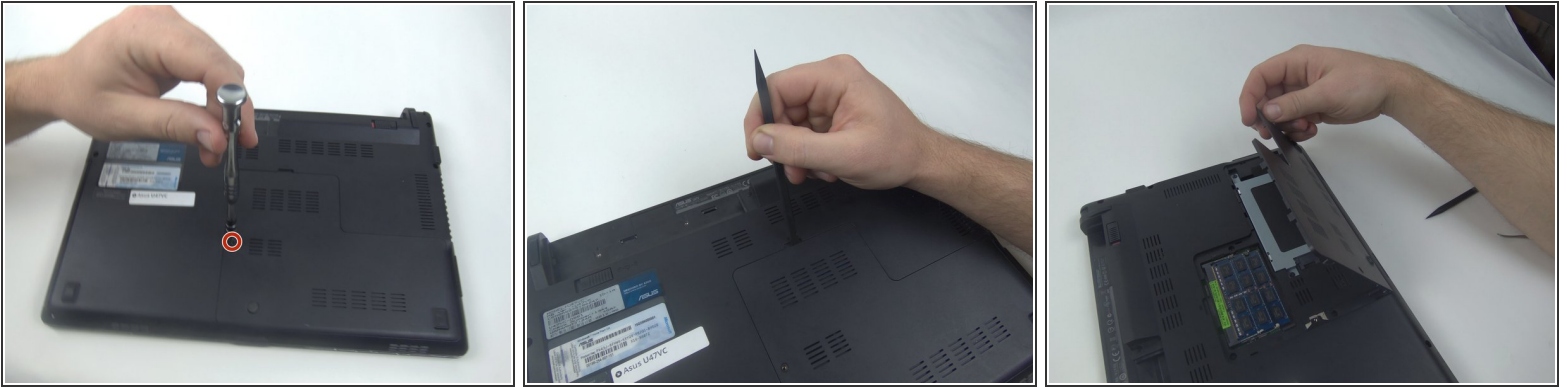
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### TOOLS:

- [Spudger](#) (1)
  - [Phillips #00 Screwdriver](#) (1)
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## Step 1 — Hard Drive



- Remove the hard drive cover.
  - Unscrew one 8mm Phillips #00 screw.
- Using the black spudger, insert its flat end under the hard drive's covering, working around to pry it off.

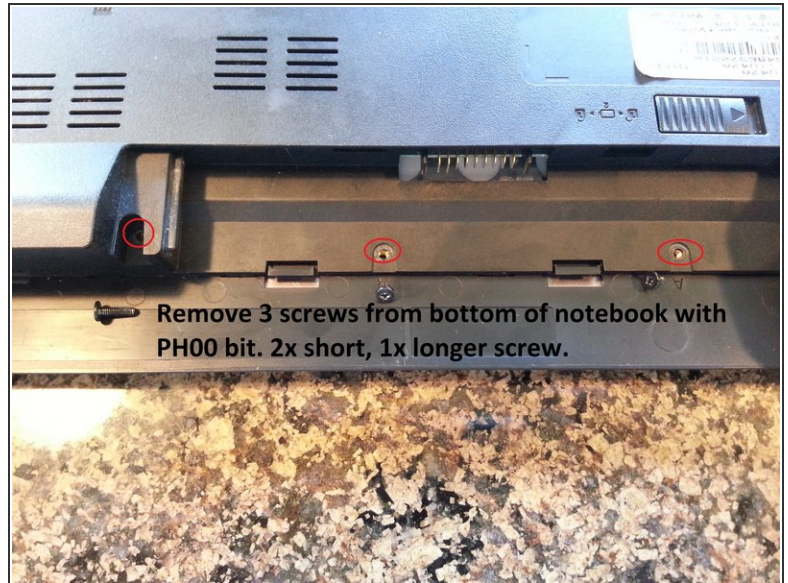
## Step 2



- Remove the hard drive.
  - Unscrew the four 3mm Phillips #00 screws.
- Pull the hard drive's black tab away from the laptop to free it.



## Step 3 — Keyboard



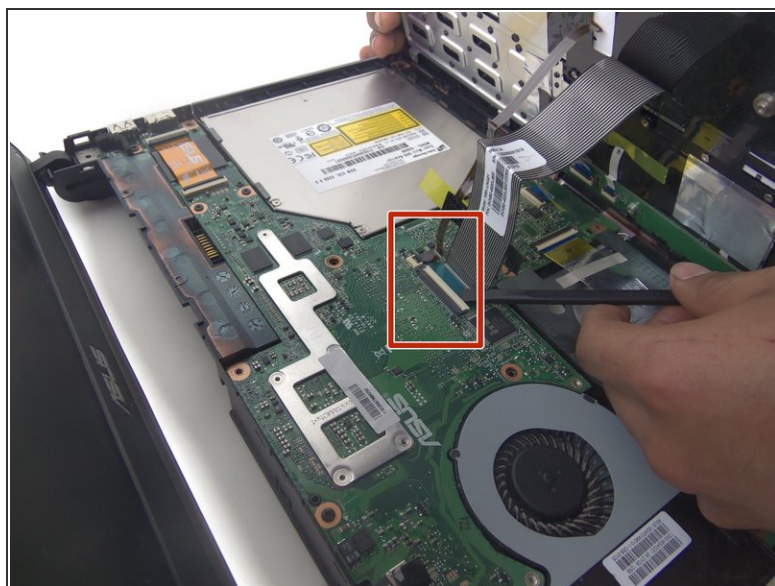
- Remove 9 screws from bottom of notebook using PH00 bit + 1 under hard drive bay.
- Remove 3 screws from bottom of notebook using PH00 bit. 1 is same screw spec as the other 9, and 2 are shorter.

## Step 4



- Using the black spudger, insert its flat end between the crevice where the color changes from grey to black.
- ⓘ The keyboard is very tightly secured.
- Carefully ease the spudger's end along the crevice, going around the entire frame.
- ⚠ The back connectors are short, so be careful when lifting.

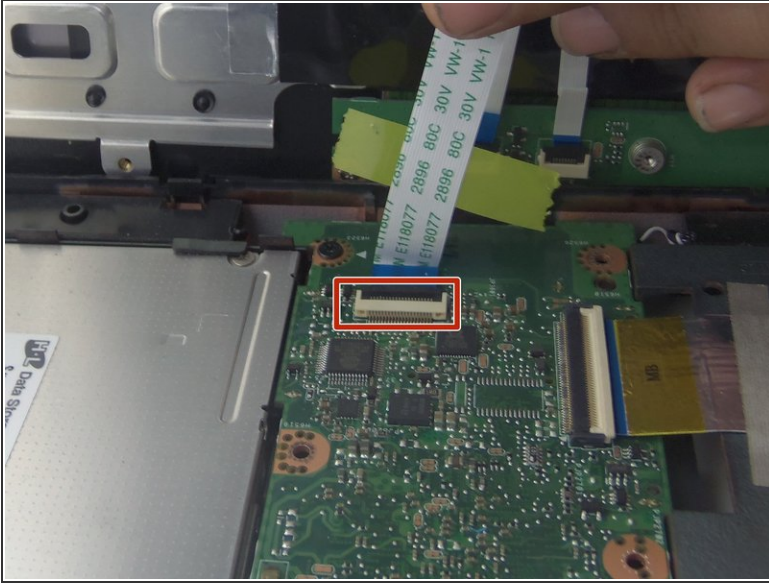
## Step 5



- Lift the keyboard from the front where it is closest to the screen.
- Disconnect the large and small ZIF connectors attached to the motherboard by flipping the light-colored part of the switch.



## Step 6



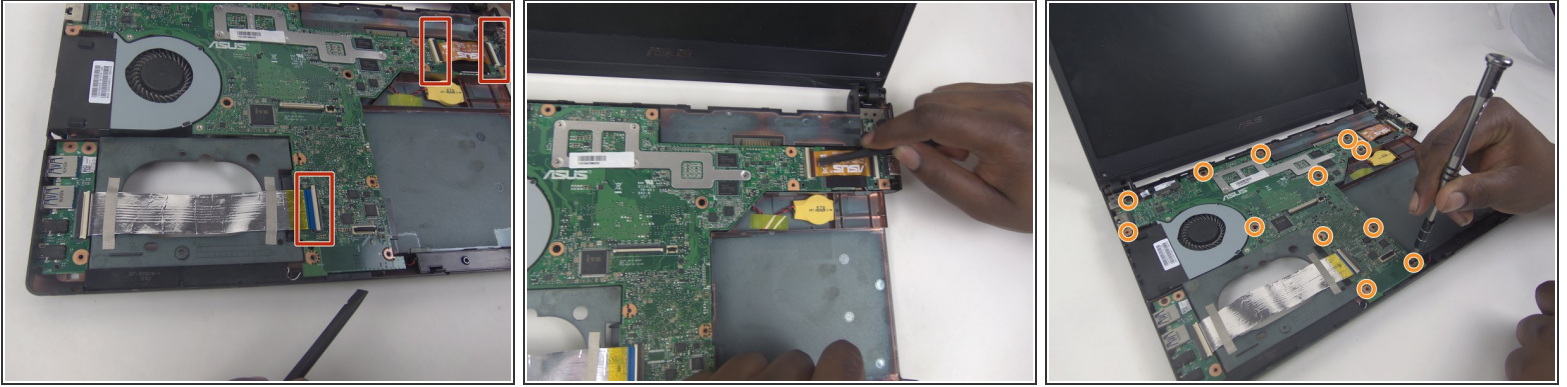
- Remove the third and last ZIF connector on the motherboard by flipping up the dark-colored part of the switch.
- Now, the component should come completely free.

## Step 7 — Motherboard



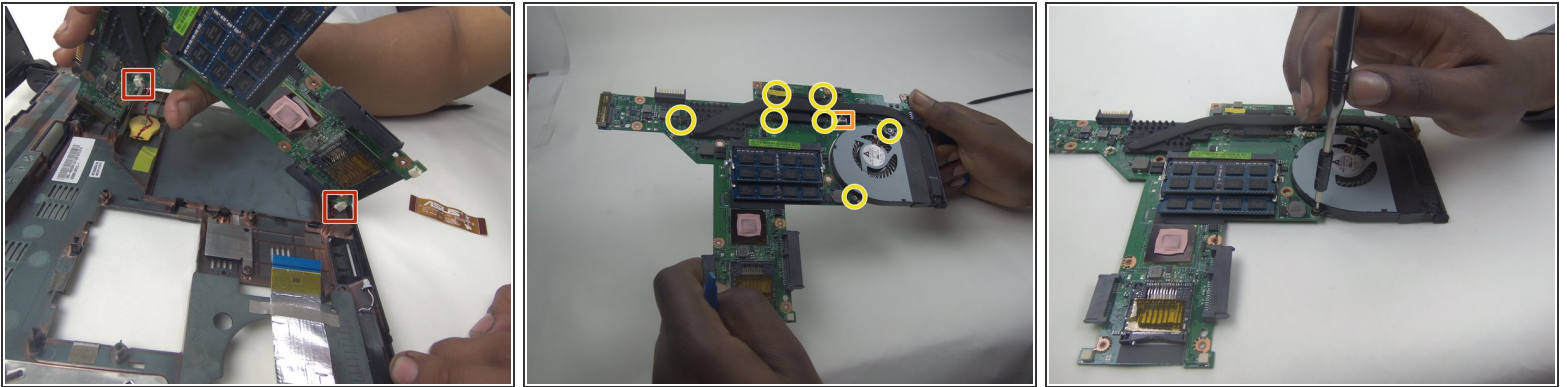
- Unscrew the one 8mm screw using a Phillips #00.
- Using the black spudger, slightly pry up on the tab and gently pull the optical drive away from the laptop in order to remove it.

## Step 8



- Using the black spudger, slowly lift up on the cable connectors and pull them away from the connectors.
- ⓘ Repeat steps on both cables.
- Unscrew the 12 8mm screws using a Phillips #00 screwdriver.

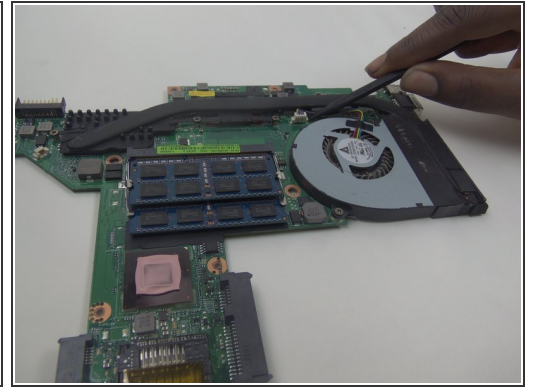
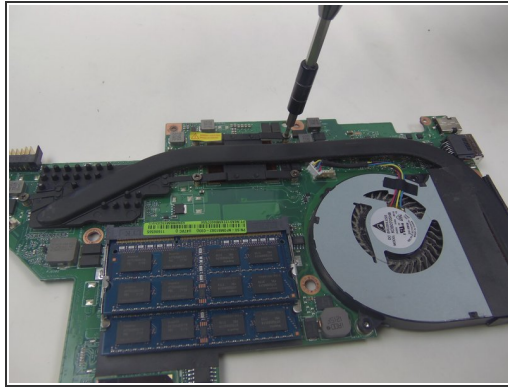
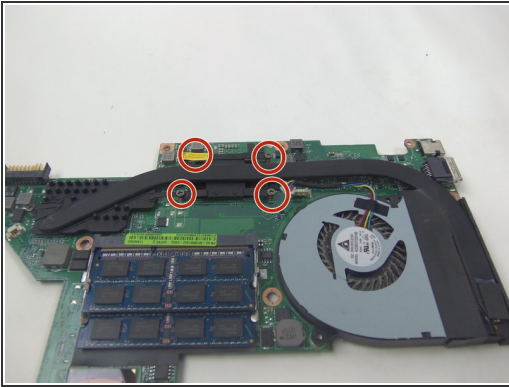
## Step 9



- Lift up on the motherboard and disengage the two connectors.
- Disconnect the cooling fan connector.
- Unscrew the 7 8mm screws holding in the cooling fan using a Phillips #00 screwdriver.

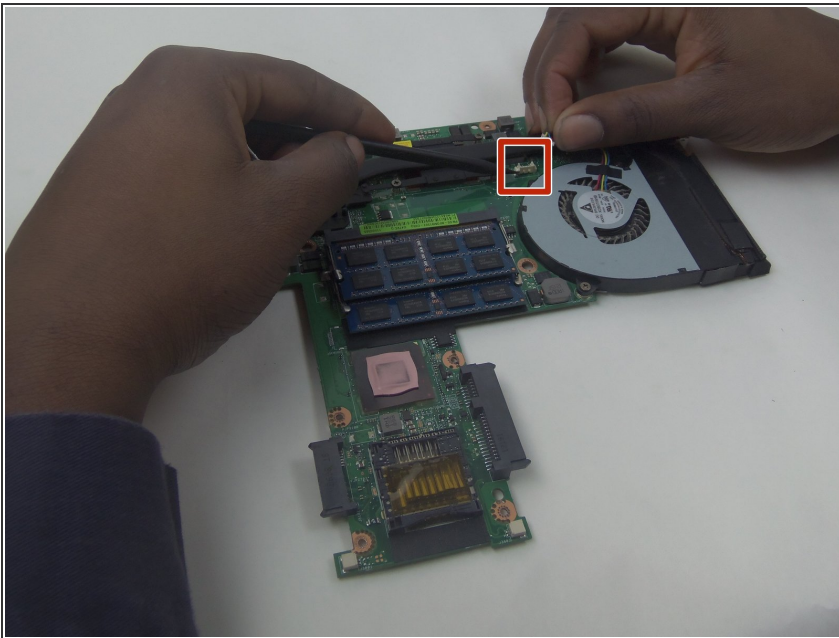


## Step 10 — Cooling fan



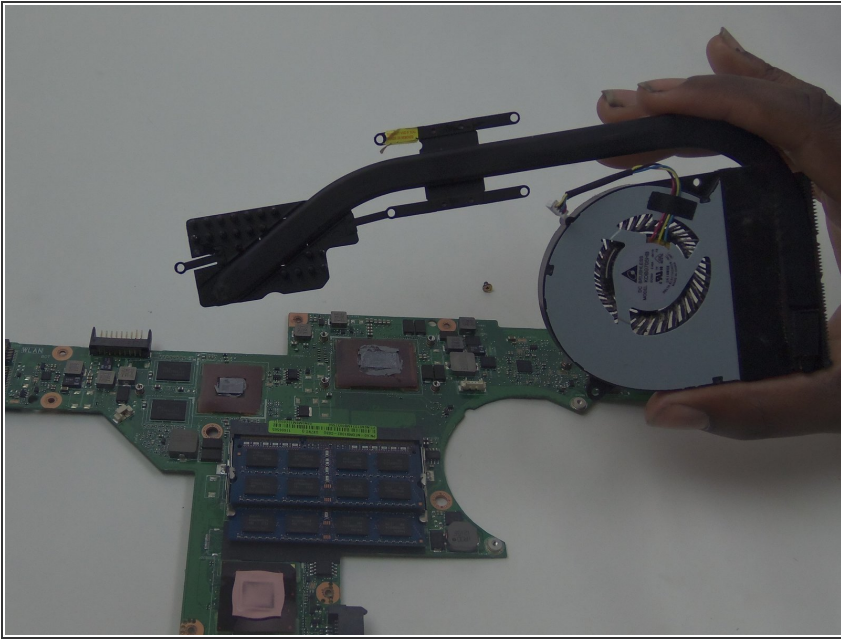
- Use a Phillips screwdriver to loosen the four screws holding the component in place.

## Step 11



- After loosening the screws, use the black spudger to help disconnect the fan wires from the connector.

## Step 12



- The fan should then come free.

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