# Asus U47VC-DS51 Motherboard Replacement

If you have slow computer speeds and frequent computer crashes, then you should replace your motherboard.

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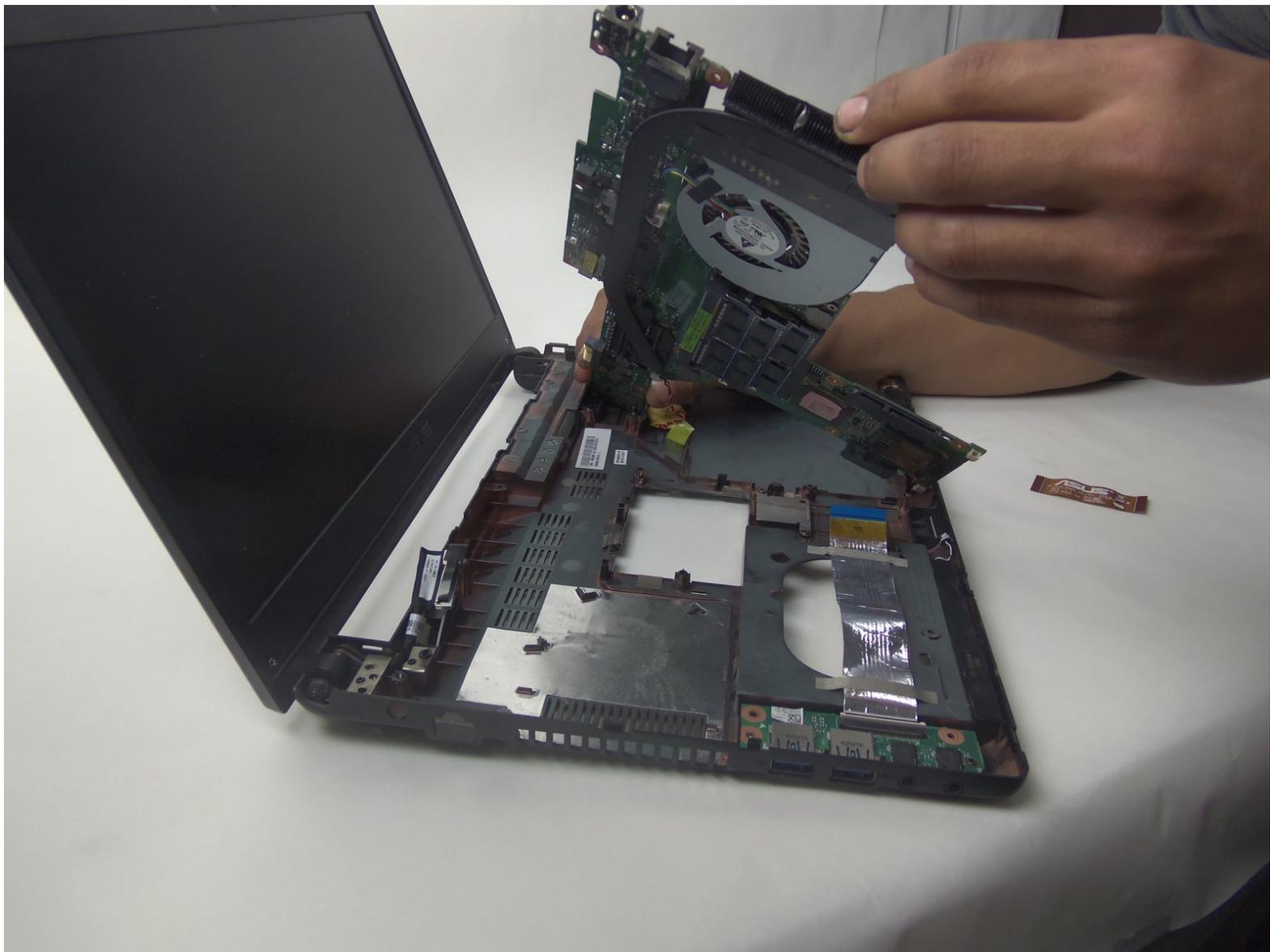
INTRODUCTION

This guide shows how to completely take out the motherboard for a total replacement.

🔧 TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)

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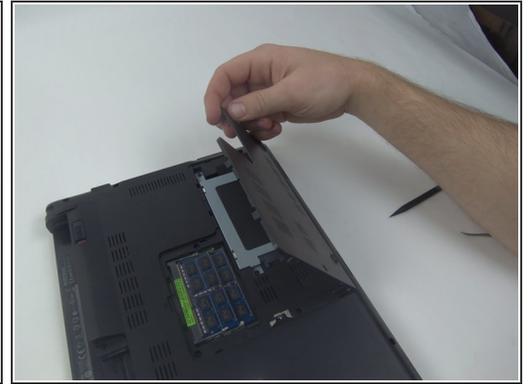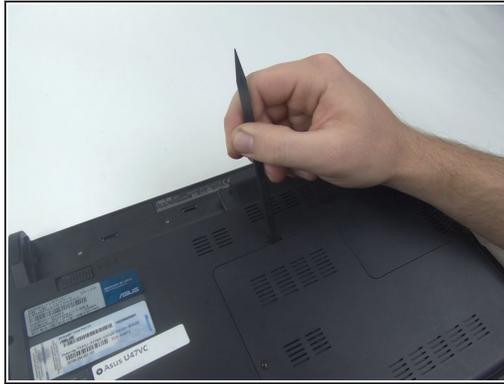
Step 1 — Hard Drive

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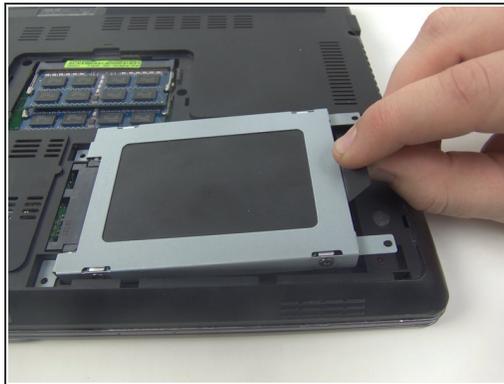
- Remove the hard drive.
  - Unscrew the four 3mm Phillips #00 screws.
  - Pull the hard drive's black tab away from the laptop to free it.

Step 3 — Keyboard
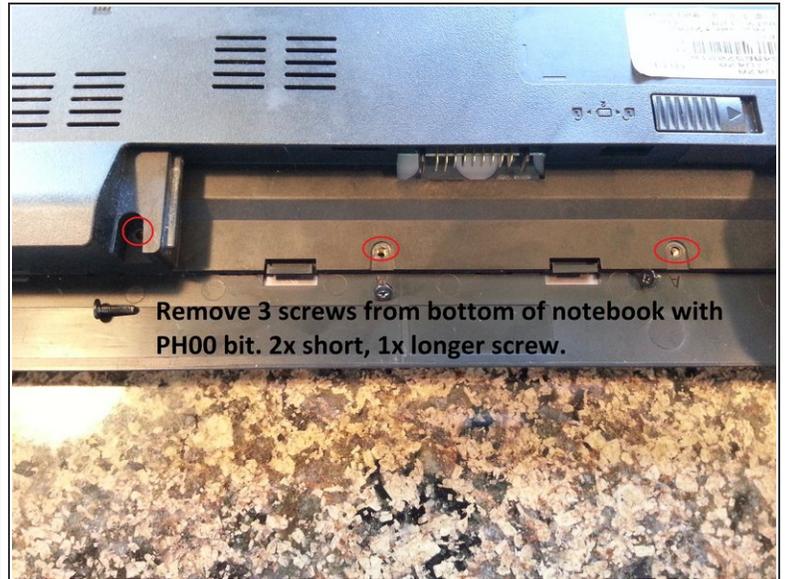
- Remove 9 screws from bottom of notebook using PH00 bit + 1 under hard drive bay.

- 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
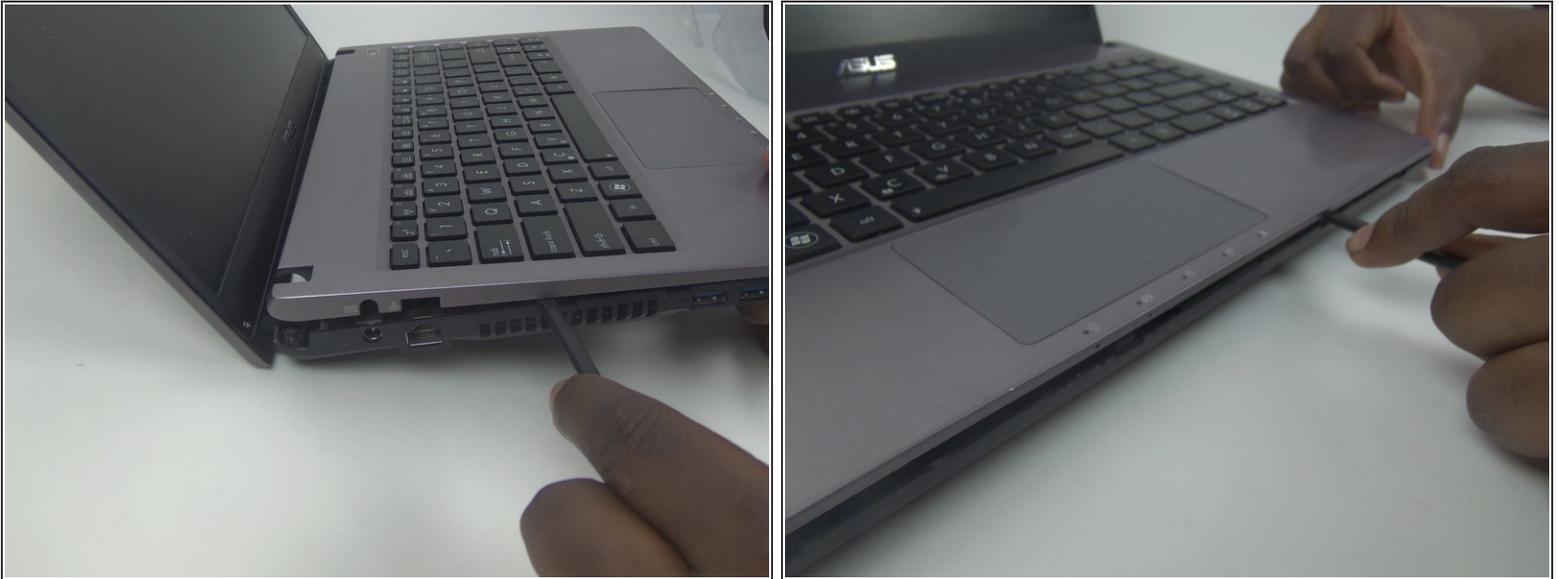
- Using the black spudger, insert its flat end between the crevice where the color changes from grey to black.

- ⓘ 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
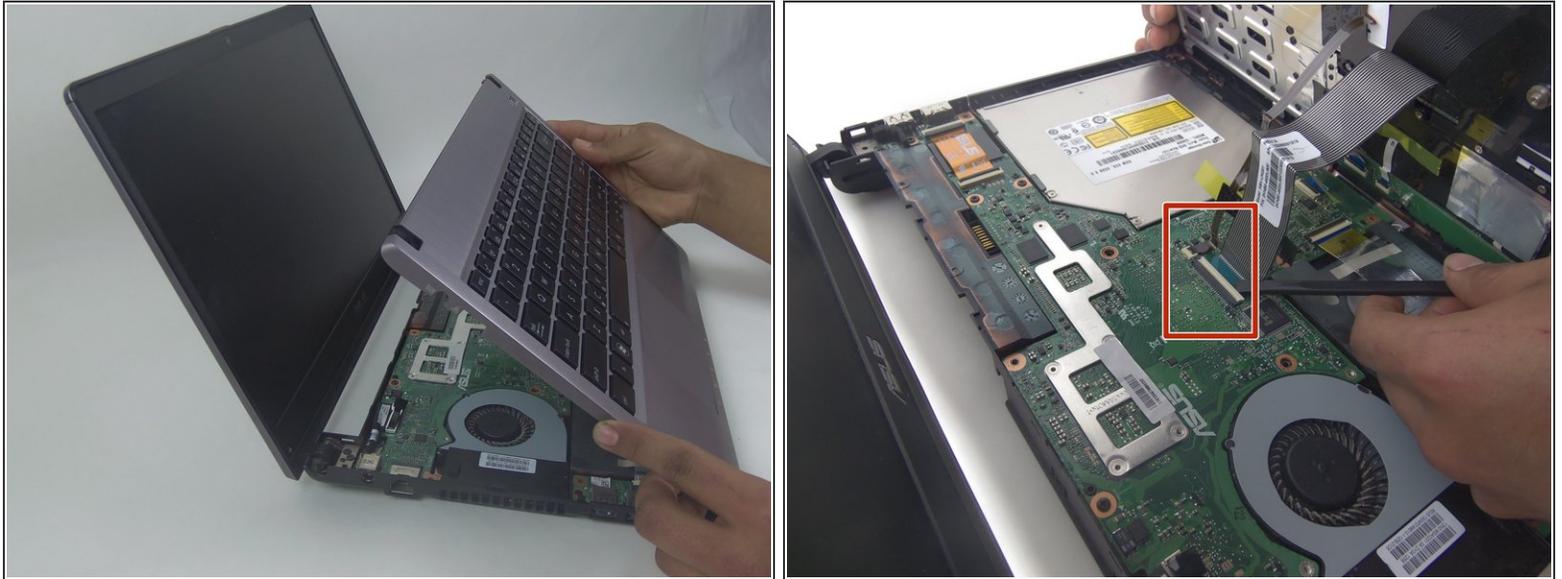
- Lift the keyboard from the front where it is closest to the screen.

- Disconnect the large and small ZIF connectors attached to the motherboard by flipping the light-colored part of the switch.

Step 6
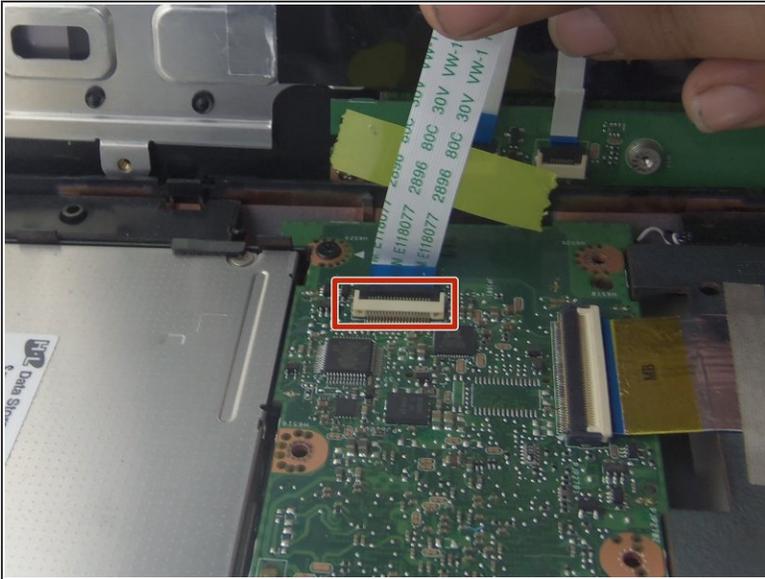
- Remove the third and last ZIF connector on the motherboard by flipping up the dark-colored part of the switch.

- 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.

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Step 8
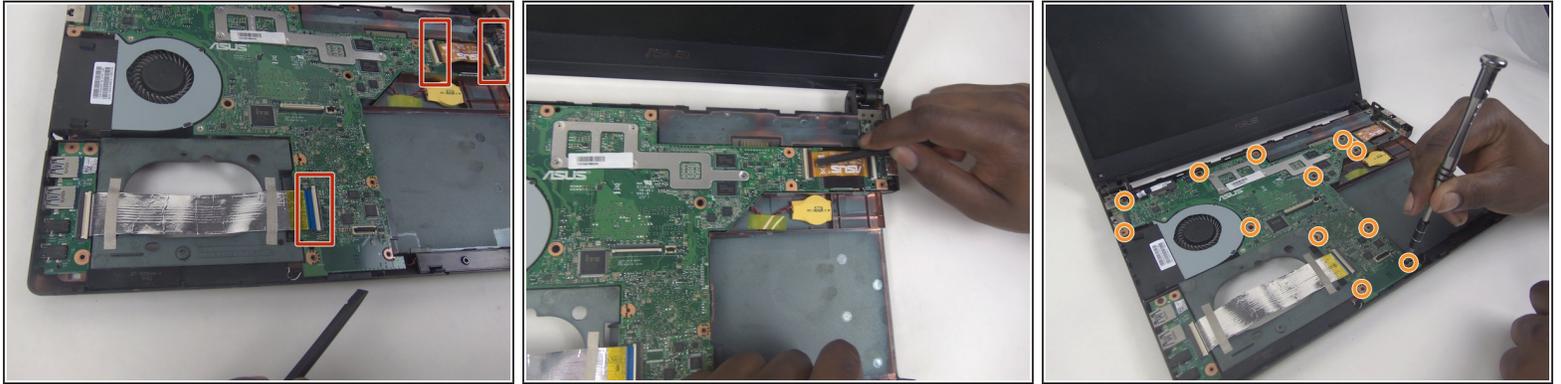
- Using the black spudger, slowly lift up on the cable connectors and pull them away from the connectors.

- (i) Repeat steps on both cables.

- Unscrew the 12 8mm screws using a Phillips #00 screwdriver.

Step 9
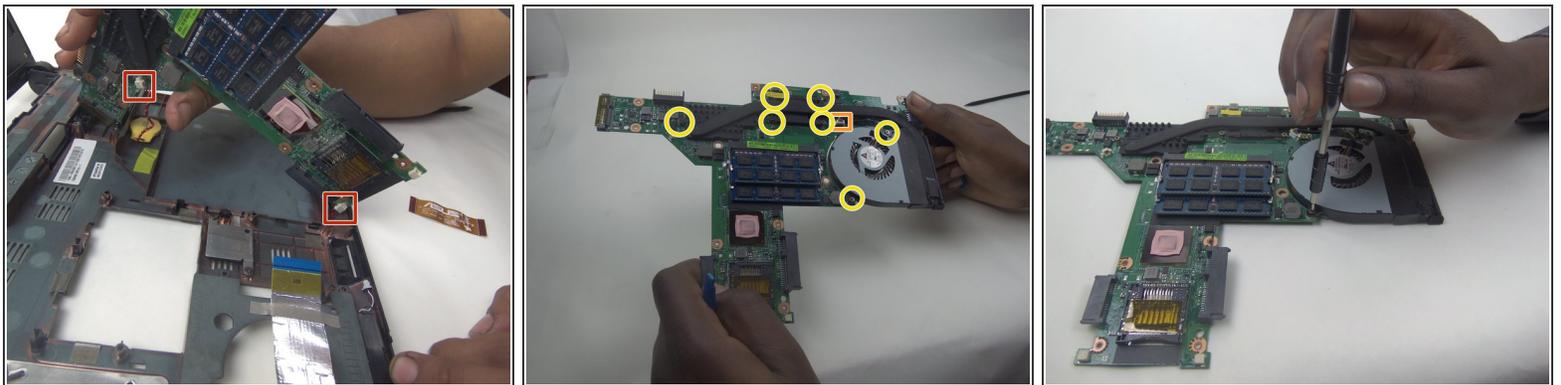
- Lift up on the motherboard and disengage the two connectors.

- Disconnect the cooling fan connector.

- Unscrew the 7 8mm screws holding in the cooling fan using a Phillips #00 screwdriver.

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

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