Asus G501JW-BHI7N12 Motherboard Replacement

This guide shows how to replace the motherboard when the Asus G501JW-BHI7N12 does not turn on.

Written By: Timothy Goike
INTRODUCTION

Replacing the motherboard on the Asus G501JW-BHI7N12 is essential. Without the motherboard, you have no computer. Although removing the motherboard looks scary, following these steps will allow you to smoothly and carefully remove the motherboard without damaging any other part of the computer.

TOOLS:

- Anti-Static Wrist Strap (1)
- Phillips #0 Screwdriver (1)
- Magnetic Project Mat (1)
- Metal Spudger (1)
Step 1 — Battery

Attach the clip of your anti-static wrist strap to the case of the laptop. This prevents any accidents that could fry the motherboard.

- Remove the four 7.0mm Philips #0 screws around the battery.

Step 2

- Unplug the connector highlighted in this picture by pulling it up and out of it's seating, then pull the battery away from the motherboard and remove the battery.
Step 3 — Cooling Fan

- Attach anti static wrist strap to your hand and clip to the laptop case.

Step 4

- Unscrew and remove the four 5mm Phillips #0 screws from the cooling fan.
Step 5

- Remove 4 pin connector from mother board.

Step 6

- Slide cooling fan out from underneath the copper heat sink.

- The cooling fan will be clipped to the case, we suggest pulling it toward the front of the case. Using the spudger can be helpful to work the fan loose.
Step 7

- One of the fans will have a connector that partially covers it. Pull the connector loose by flipping up the plastic clamps on both ends and follow steps 2-4.

Step 8 — Motherboard

- Using the Phillips #0 screwdriver, remove the six 5 mm screws located along the copper heat sink.
To reassemble your device, follow these instructions in reverse order.

**Step 9**

- Using the same Phillips #0 screwdriver, remove the nine 4 mm screws located around the motherboard.

**Step 10**

- Gently remove the motherboard.