Toshiba Satellite M45 Motherboard Replacement

How to remove or replace a faulty motherboard in a Satellite M45.

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INTRODUCTION

Use this guide to replace a damaged motherboard in your Toshiba Satellite M45.

The Motherboard is a circuit board that connects important hardware such as the Graphics Cards, Solid State Drives, Hard Drives, Ram, Mouse and keyboard.

A faulty motherboard can damage the hardware components connected making it undetectable by the computer and may slow down performance. A faulty motherboard can cause overheating, show the monitor screen freezing or a display bluescreen. Signs of a damaged motherboard are dust build up, burnt chipset and a computers old age.

Before using this guide, make sure to review the Toshiba Satellite M45 troubleshooting page-check to see if your laptop has a motherboard related problem. If you are sure it's a motherboard related problem then make sure to review the troubleshooting page- Motherboard related problems sometimes can be fixed with updating the BIOS or configuring the CMOS.

🔧 TOOLS:

- Spudger (1)
- Phillips #00 Screwdriver (1)
- Phillips #1 Screwdriver (1)
- iFixit Opening Tool (1)

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Step 1 — Battery

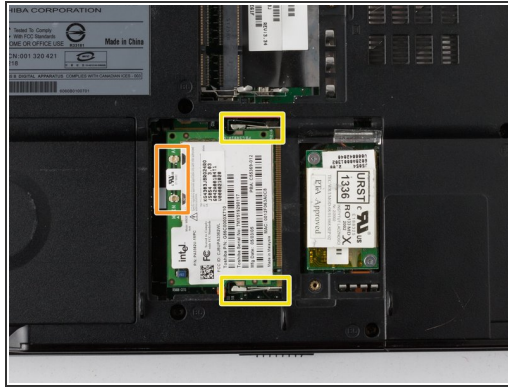⚠ Make sure device is off and power supply is disconnected.

- Flip the laptop to the bottom side.
  - Locate and slide the two battery locks to disconnect the battery.
- Remove the battery by sliding it out away from the computer (horizontal with the casing).

Step 2 — RAM

- Use a #1 Phillips head screwdriver to remove the screw on the middle right of the RAM's cover panel.
  - Then, use a the blue iFixit Opening Tool to pry the cover panel off.
- Push on to the RAM tabs to disconnect the RAM form the device.
  - The RAM will pop off from the socket. Gently pull the RAM out of the socket.

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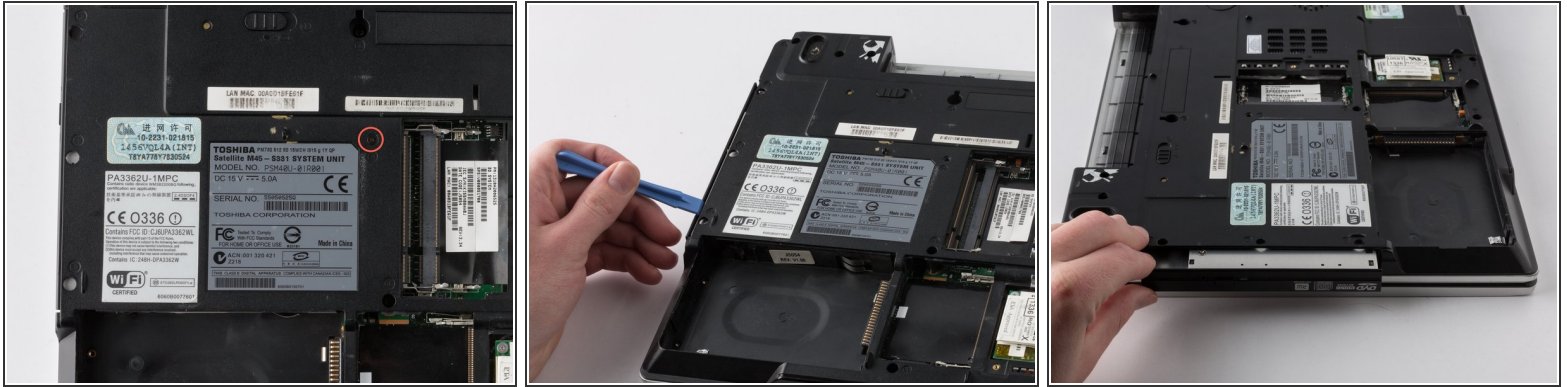
Step 3 — Wi-Fi Card

- Use the #1 Phillips head screwdriver to unscrew the panel.

- Disconnect the black and white wires.

- Push on the tabs to disconnect the Wi-Fi card.

- Use the blue iFixit Opening Tool to pull the Wi-Fi Card out.

Step 4 — Hard Drive

- Use the #1 Phillips head screwdriver as to remove the hard drive screw.

  - Use the blue iFixit Opening Tool to pry the cover off.

- Use the plastic flap to pull the hard drive out of its slot.

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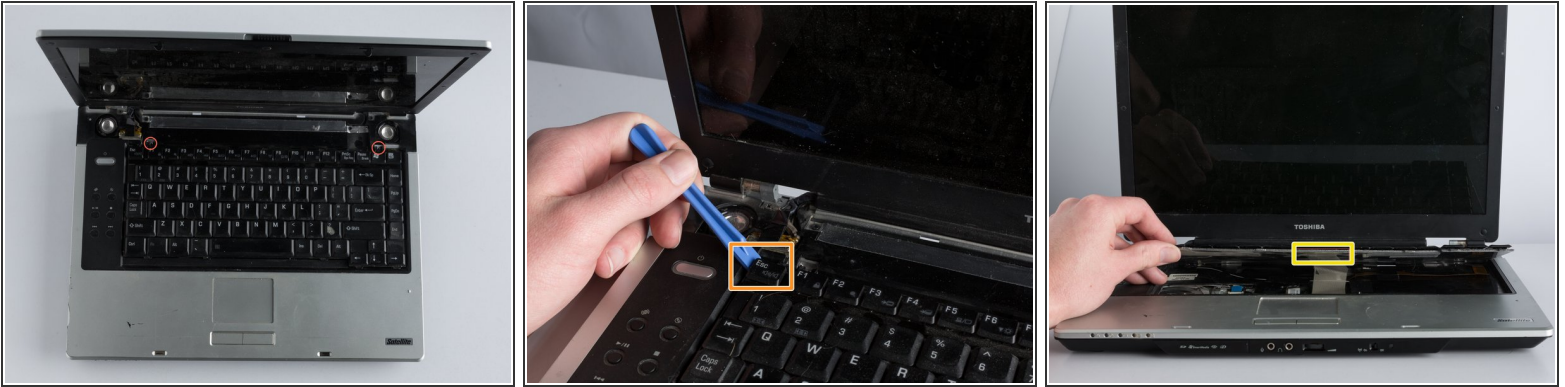
Step 5 — Optical Drive

- Use the #1 Phillips head screwdriver remove the Optical Drive screw.

- Use the blue iFixit Opening Tool to pry the Optical Drive out of the slot from the side of the casing.

- Use your hands to pull the rest of the Optical Drive out.
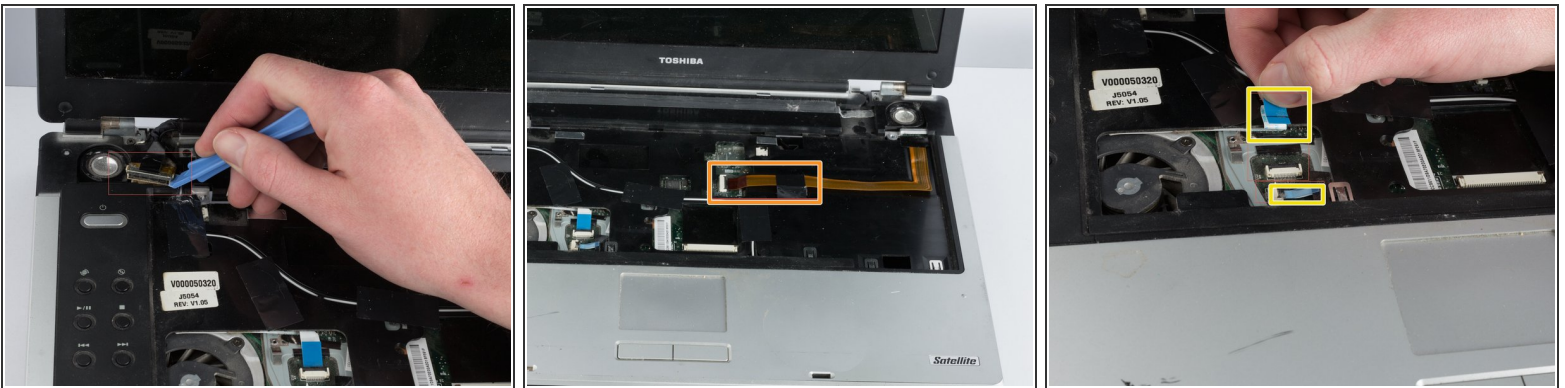
Step 6 — Keyboard

- Carefully use the blue iFixit Opening Tool to pry the panel above the keyboard from the left and right side.

- Push back the screen until it is flat with the laptop.

- Gently remove the clips that connect the panel to the screen.
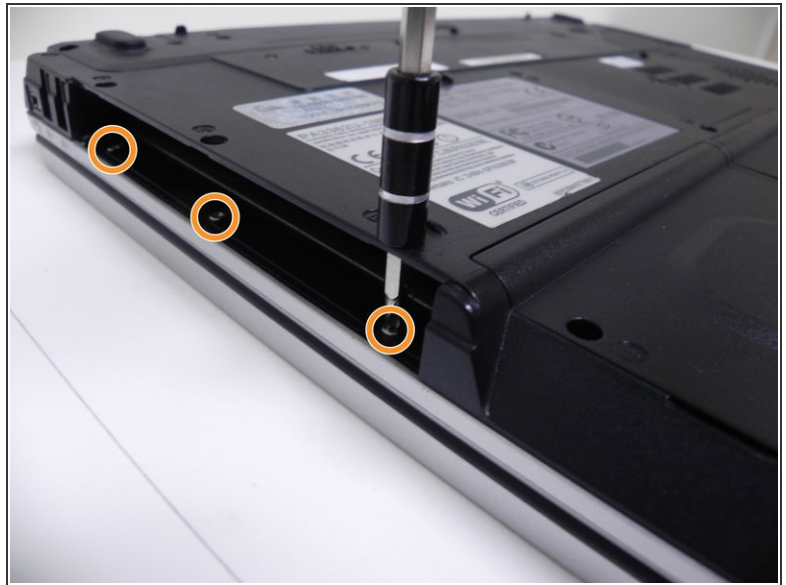
www.iFixit.com

Step 7

- Use the Phillips #1 screwdriver to remove the two screws.

- Gently pry the keyboard from the laptop using the blue iFixit opening tool.

- Slowly lift the keyboard away from the laptop.
  - Remove the ribbon that connects to the laptop.

⚠ Ensure you remove the keyboard slowly to avoid damaging the ribbon cable.
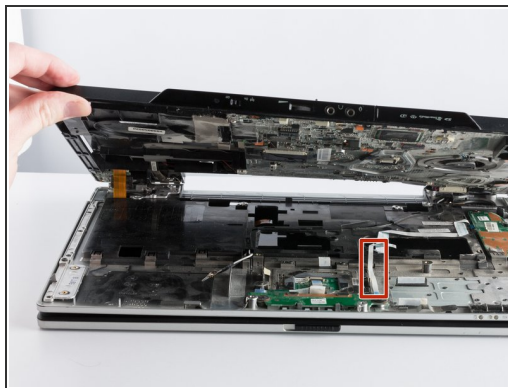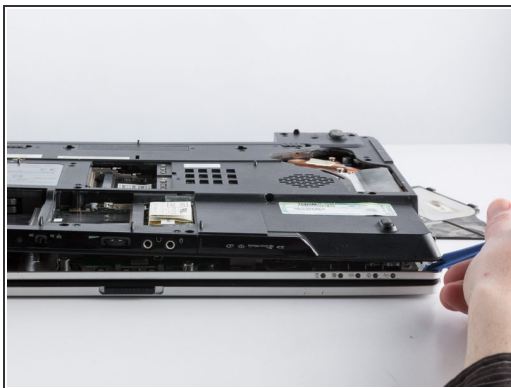
Step 8 — Motherboard

- Disconnect the video cable, then slowly and firmly pull the video cable upwards.

- Disconnect the brown ribbon located in the middle area of the laptop.

- Disconnect the two white ribbons located in the bottom left of the laptop.
  - Firmly pull out the two white ribbons.

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Step 9

- Use the Phillips #00 Screwdriver to unscrew all the screws.

- Unscrew three additional screws through the three holes on the optical drive.

Step 10

- Turn the laptop upside down.

  - Use the blue iFixit Opening Tool to slowly pry the case upward.

  - Remove the white ribbon

- ⓘ Make sure to completely remove the white ribbon and set it to the right side of the motherboard. and not on top of the motherboard.

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Step 11

- Lift up the motherboard.
  - (i) Be careful not to rip out small components on the motherboard. Carefully remove the motherboard.

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

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