



HP 17-x173dx Motherboard Replacement

Use this guide to replace the motherboard in your HP 17-x173dx.

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INTRODUCTION

If your laptop is not booting up, if a burning smell is coming from your device, or it is not turning on, you may need to replace your motherboard. Use this guide to replace the motherboard in your device with easy-to-follow steps.

TOOLS:

- [Metal Spudger](#) (1)
 - [Tweezers](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
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Step 1 — Battery



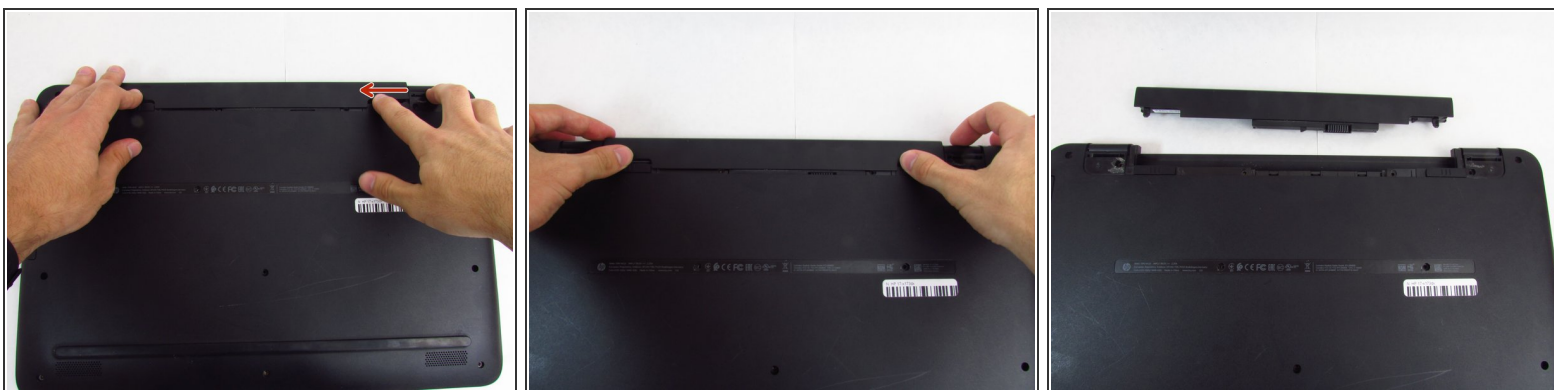
- Begin by sliding the left tab to the unlock position

Step 2



- Push each of the two tabs in the direction specified by the picture.

Step 3



- Slide and hold the right tab to the left, while gently pushing out the battery with your thumbs

Step 4 — Motherboard



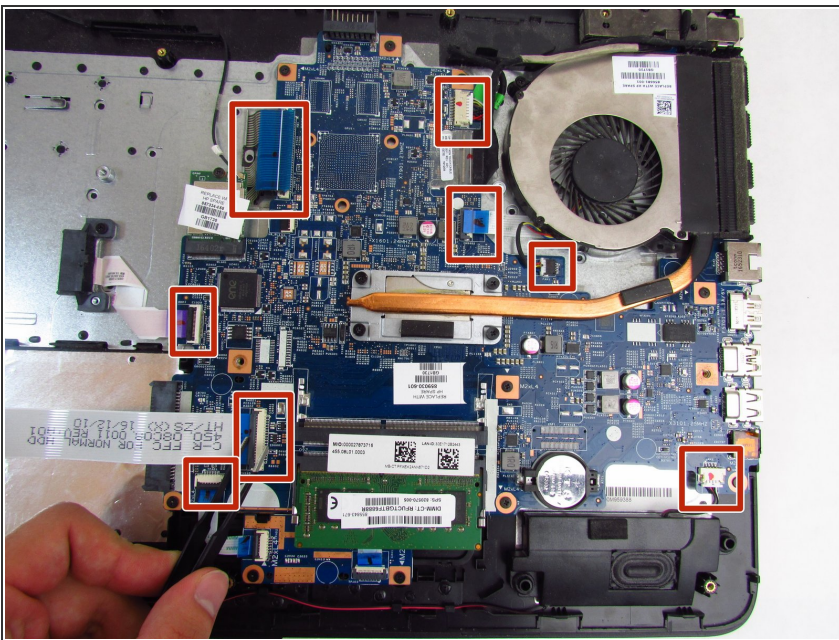
- Using the Phillips #0 screwdriver, remove fourteen 7 mm screws on the back of the device (two will be underneath where the battery was).

Step 5



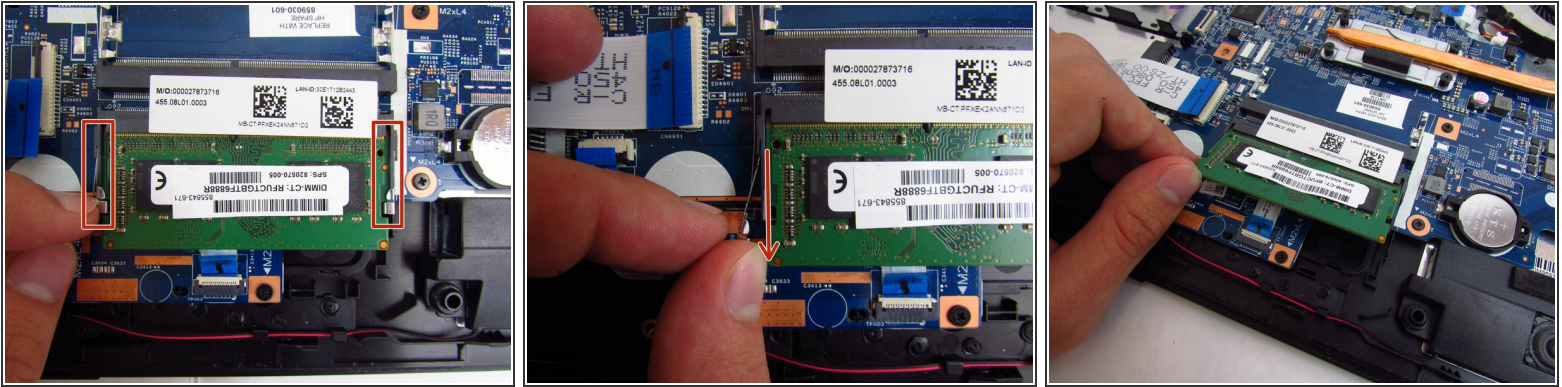
- Remove the optical disk drive.
- Use the spudger to lift the plastic backing, starting from the back right side, near the vents.
- Remove the back of the device by continuing to lift the plastic around the entire perimeter of the device.

Step 6



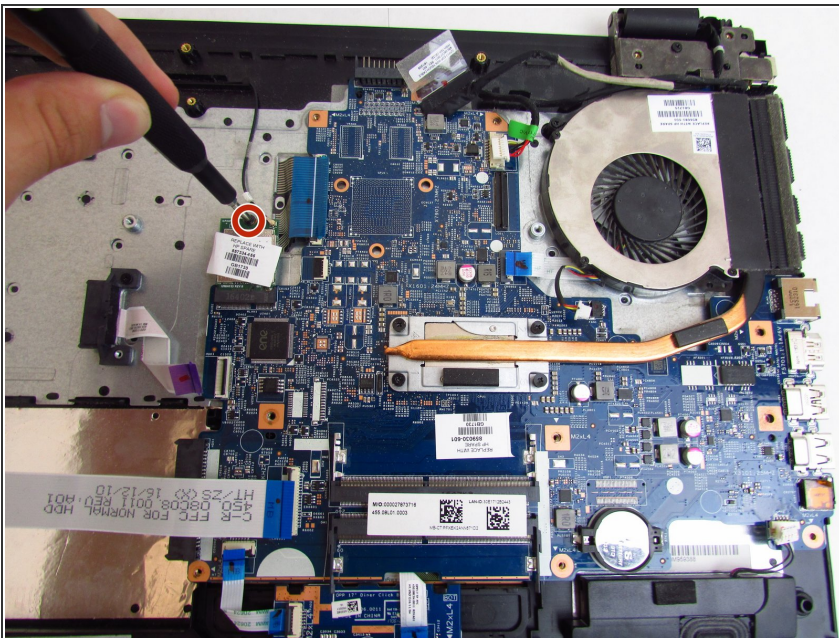
- Disconnect all cable connections from the motherboard. For the 6 ribbon cables, take care to lift each plastic flap using a pair of dull tweezers before pulling the cable out. Additionally remove the 2 white plastic cable connections by simply pulling them away.

Step 7



- Use a pair of tweezers or your nails to carefully pry the metal retention clips out and away from the RAM casing.
- Gently bend the plastic retainers away to free the RAM stick and remove it from the device.

Step 8



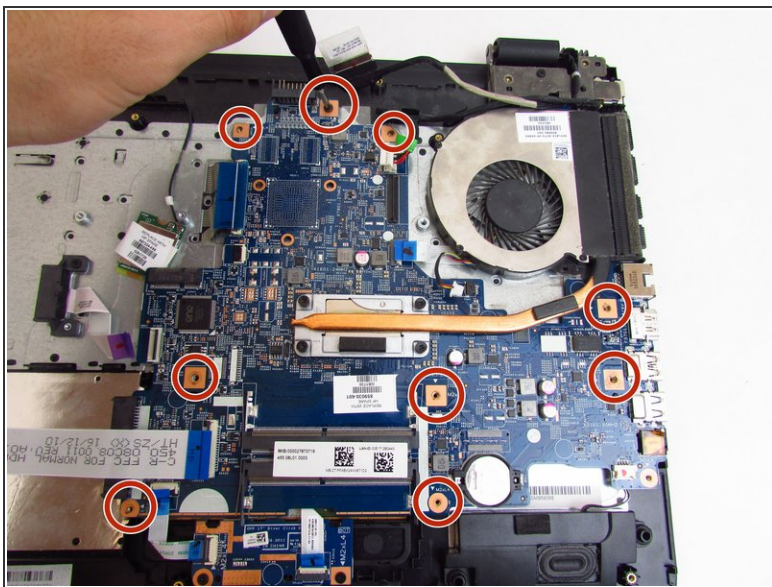
- Using the Phillips #0 screwdriver, remove the Wi-Fi module by unscrewing a single 5 mm screw.

Step 9



- Remove the hard drive by undoing the hard drive retention case.
- i** The hard drive did not come attached when we received the device.

Step 10



- Remove nine 4 mm motherboard screws using the Phillips #0 screwdriver.
- Lift the motherboard and heatsink with fan out of the laptop case.

Step 11



- Unscrew four heat sink screws using the Phillips #0 screwdriver.
 - ⓘ These will unscrew, but will stay attached to the heat-sink.
- Remove the cooling fan and heat sink from the motherboard.
- ⓘ After removing the cooling fan and heat sink, you will be left with the motherboard.

Install replacement motherboard and reassemble your device by following these instructions in reverse order.