



# Toshiba Satellite E45-B4100 Cooling Fan Replacement

Guide for how to manually remove and replace the cooling fan for the Toshiba Satellite E45-B4100. This guide is useful for when a laptop is consistently overheating, and will add to the longevity of the computer.

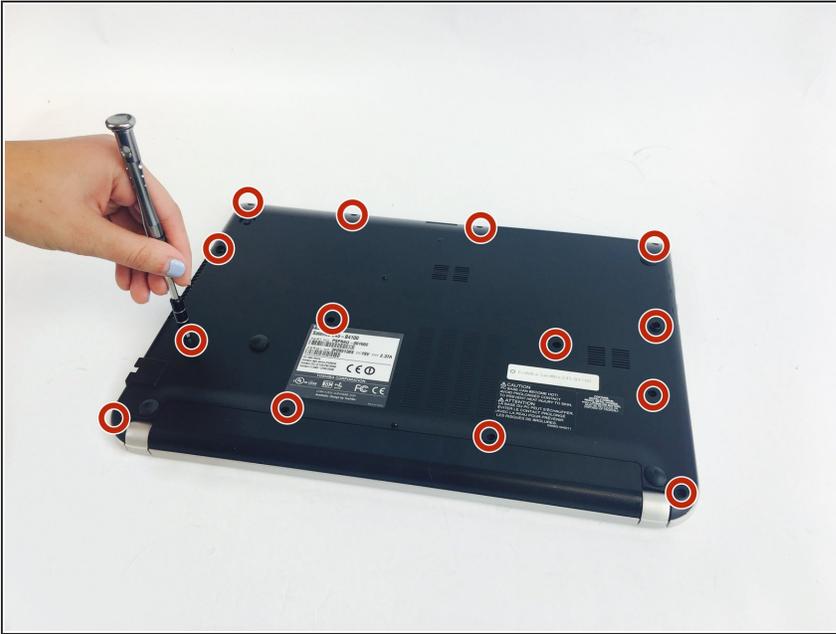
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 **TOOLS:**

- [Spudger](#) (1)
  - [Phillips #0 Screwdriver](#) (1)
  - [Heavy-Duty Spudger](#) (1)
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## Step 1 — Battery Replacement



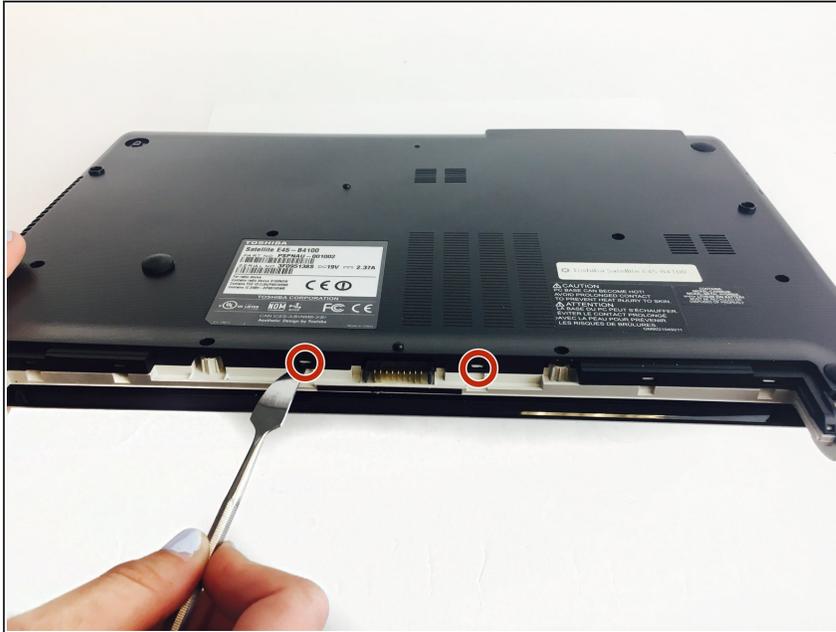
- Remove the fourteen 3.75mm screws with a Phillips #0 Screwdriver as shown.

## Step 2



- Gently pull out the battery.

### Step 3 — Cooling Fan



- Using a spudger, poke the white tabs in by the battery until you hear a click.

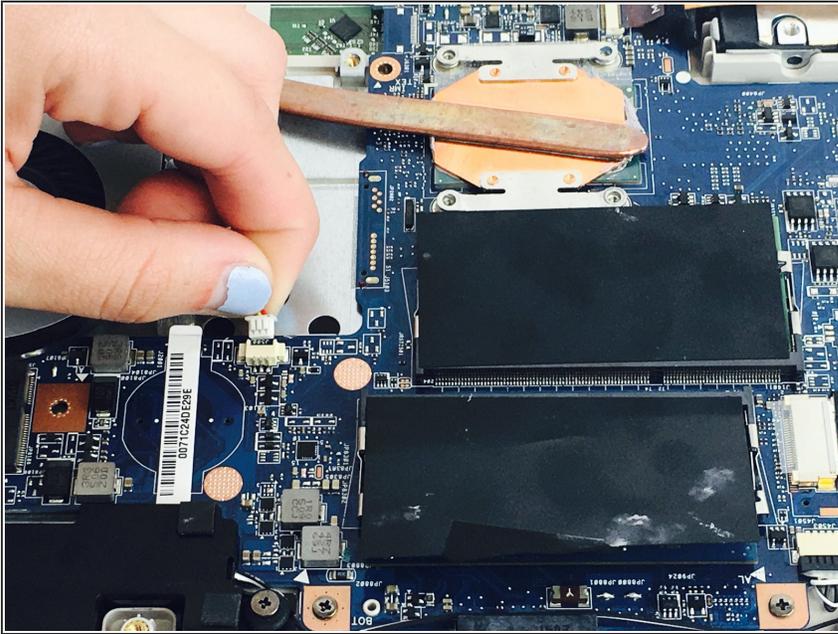
### Step 4



- Separate the laptop by sliding a spudger in between the black and silver covers.

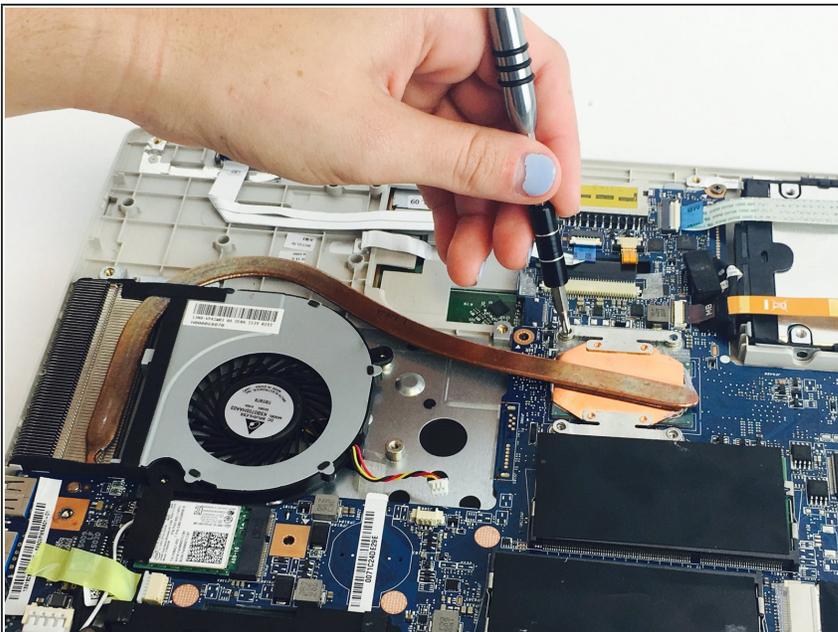
⚠ Be sure to use ESD safe tools, we recommend using the [iFixit Pro Tech Toolkit](#).

## Step 5



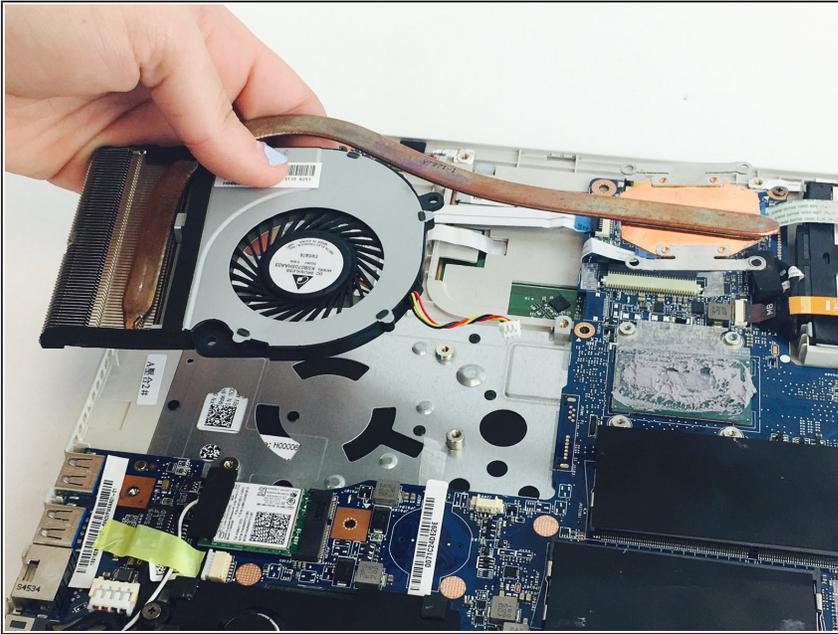
- Disconnect the Cooling Fan from the Motherboard by gently pulling away on the white tab.

## Step 6



- Unscrew the two 3.75mm screws around the Cooling Fan and the copper attachment as shown with the #0 Phillip's Head screwdriver.

## Step 7



- Remove the attachment from the Processor by gently rotating and lifting.

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