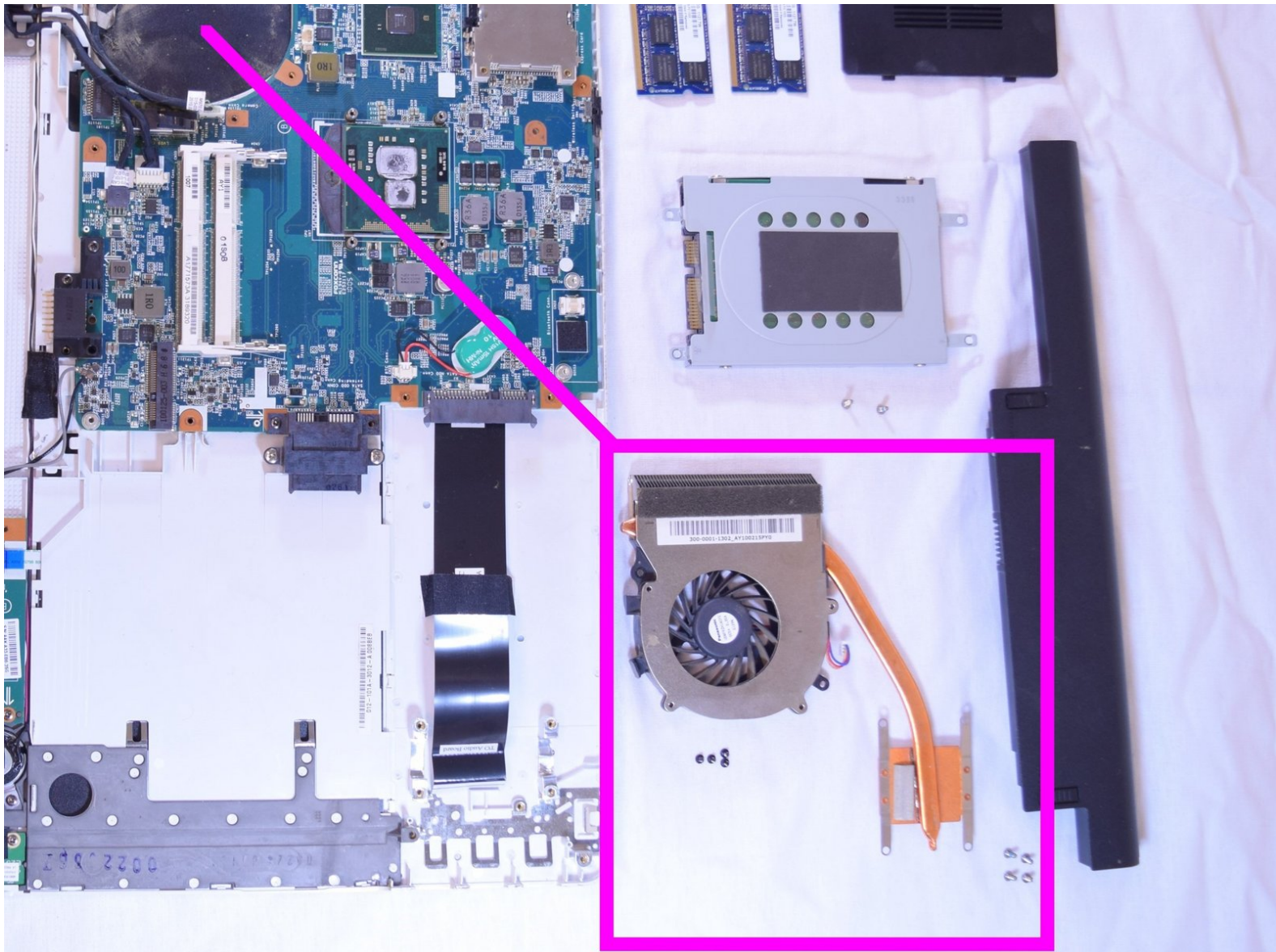# Sony Vaio PCG-71312l Cooling Fan Replacement

This guide covers the removal of the cooling fan and heat sink for replacement.

Written By: Maxine Filcher
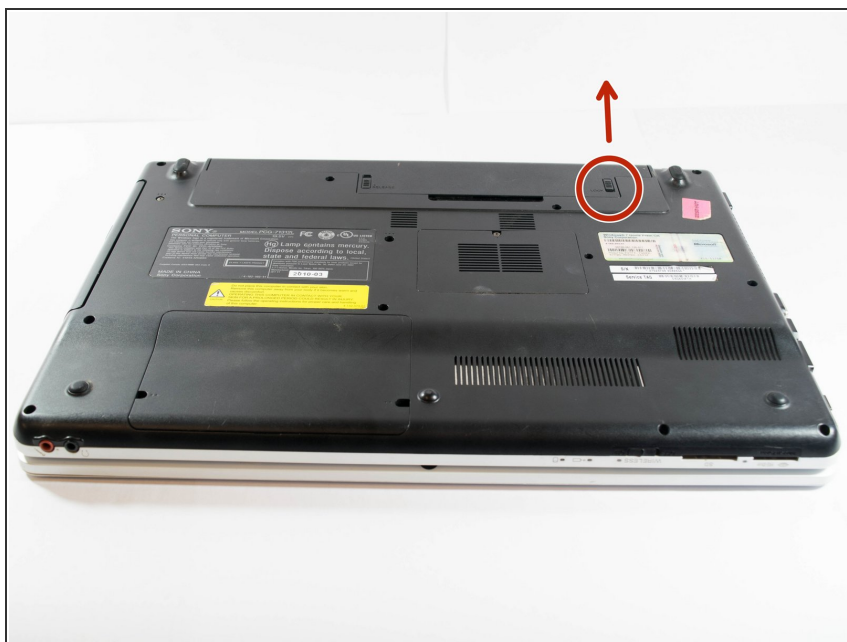
TOOLS:

- Phillips #000 Screwdriver (1)
- Phillips #1 Screwdriver (1)

PARTS:

- Arctic Silver Thermal Paste (1)

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Step 1 — Battery

⚠ Power down and disconnect from power supply.

● Use your finger to unlock the tab by pressing the slide away from you.

Step 2

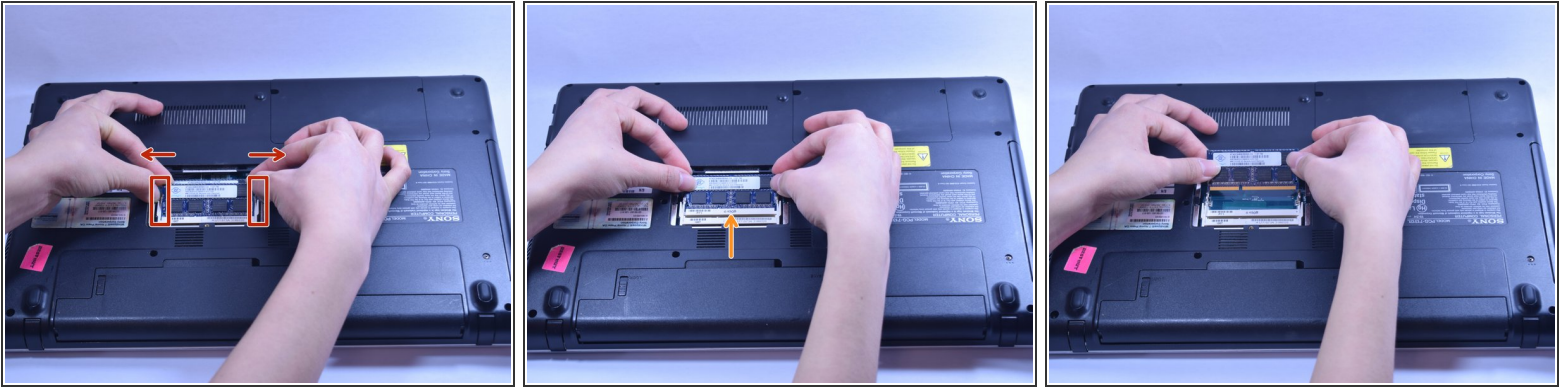● Hold the release slide, while using thumb to apply upward pressure.
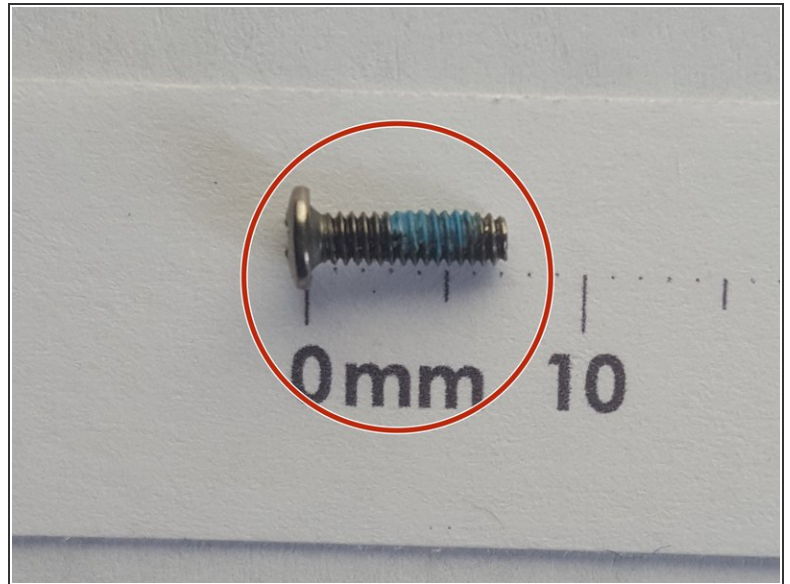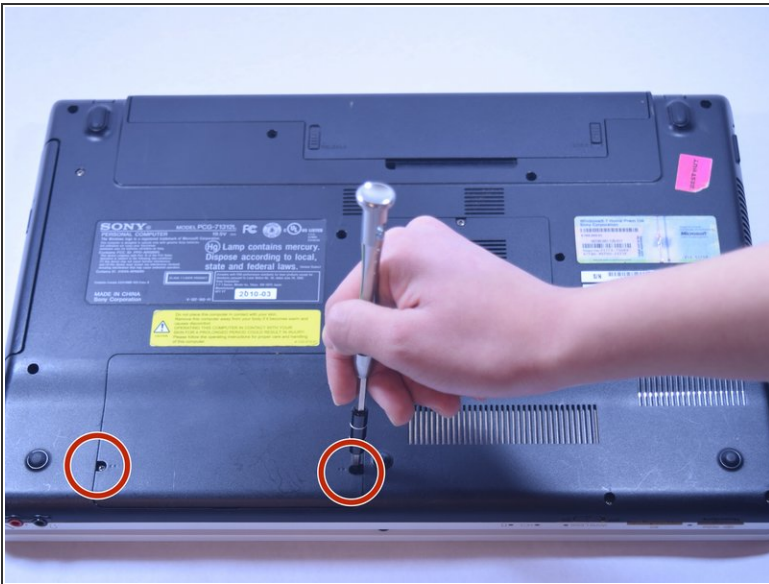
Step 3

- Pull the battery off.

Step 4 — RAM

- Unscrew the RAM case

- The case to pop up once you lose up the case

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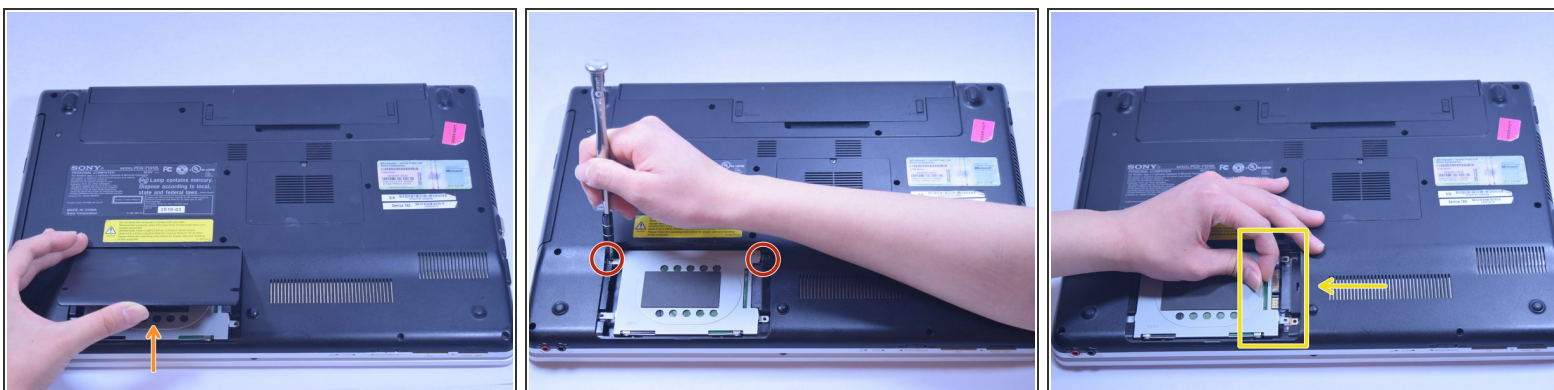
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Step 5

- Use two finger gently to pul the white plastic strap outward with both side.

- Once you pull the strap, the RAM with lose up, you are able to just lift up the RAM

- Once you done with the top, repeat the same step for the bottom
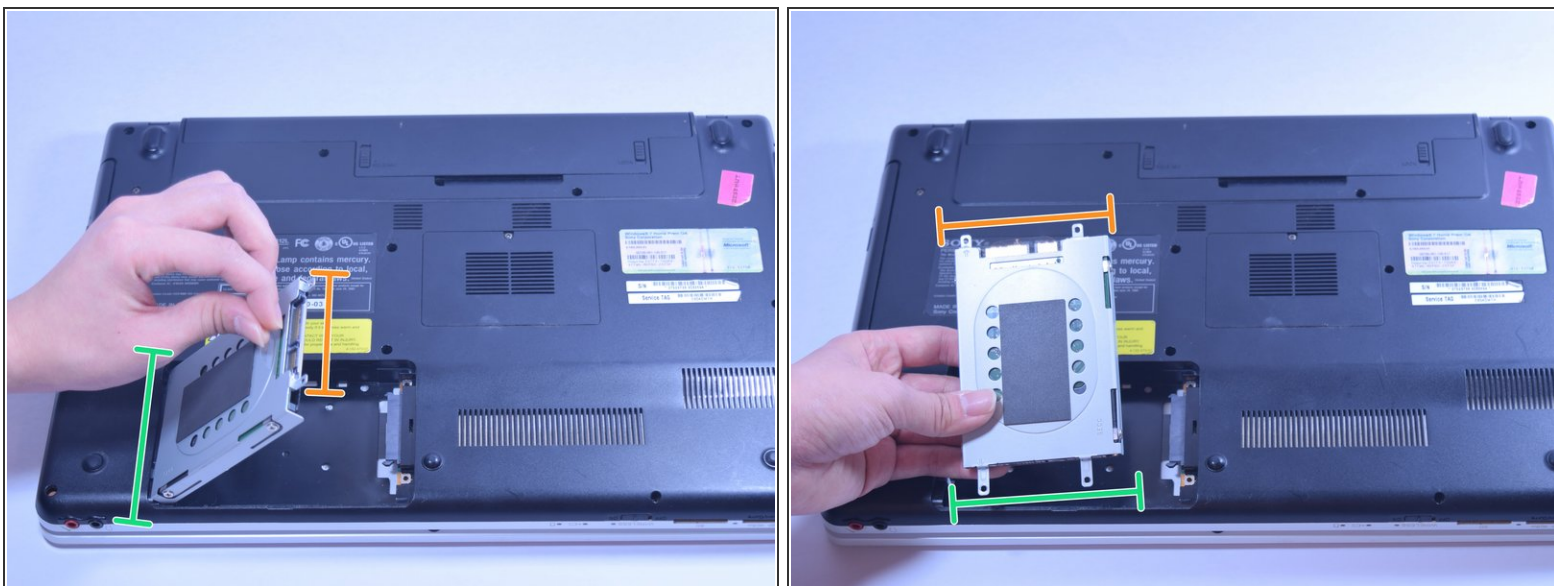
Step 6 — Hard Drive

- Using PH 01 remove two 7mm PH screws.

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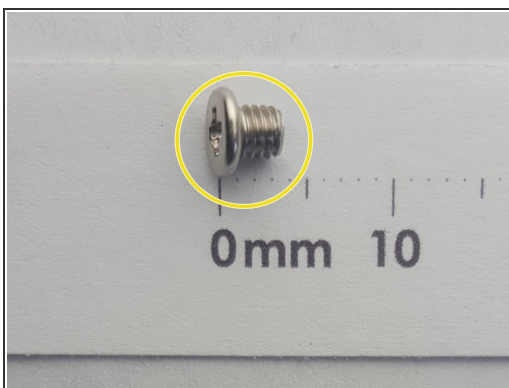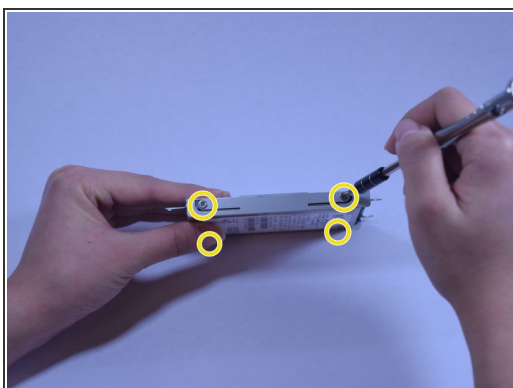
Step 7

- #1 Use force to push the cap upward.

- #2 Unscrew two 7mm PH screws.

- #3 Pull from the plastic and pull toward the arrow point it direction.
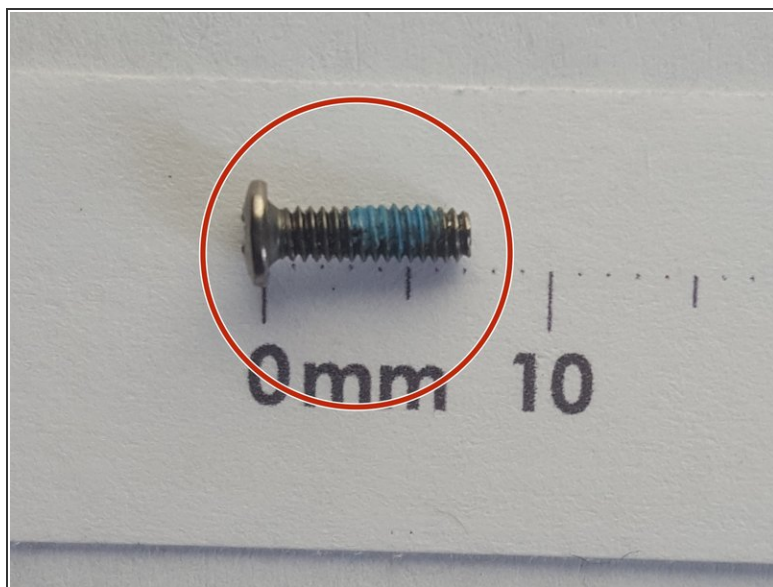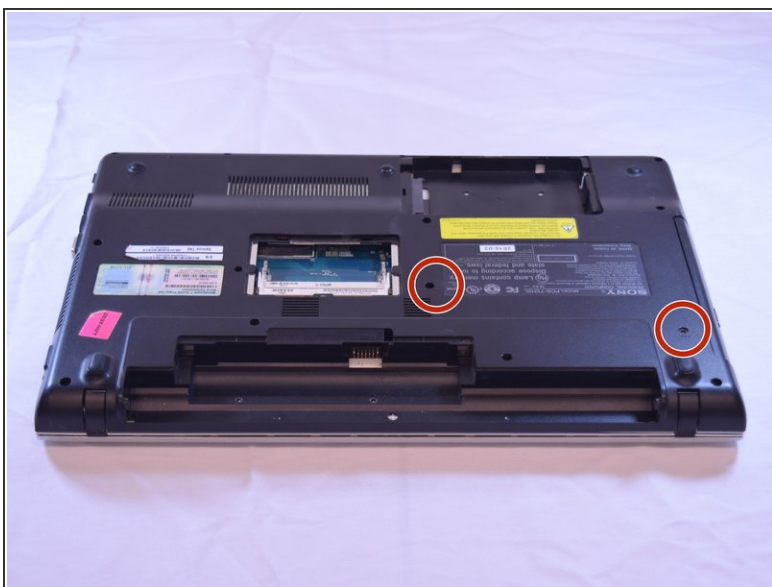
Step 8

- Lift plug side first.

Step 9

ⓘ Skip to next step if accessing other components.

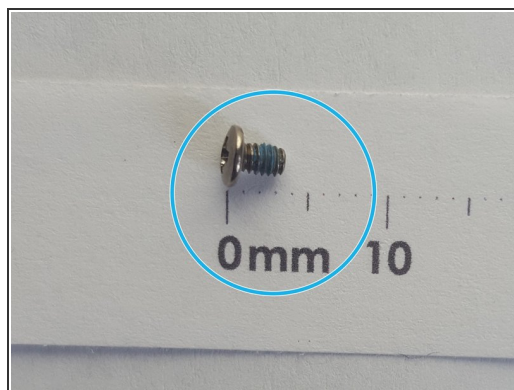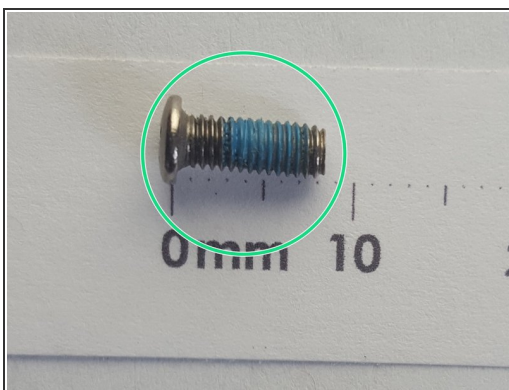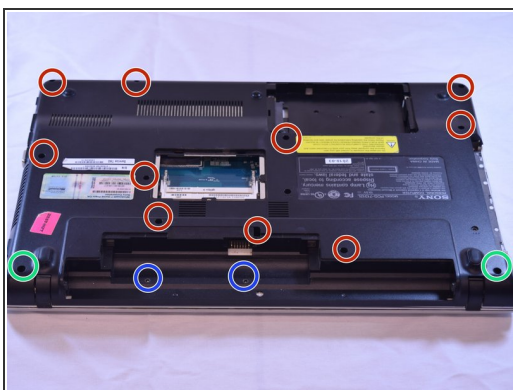● #1 Remove four 3mm PH01 screws from hard drive bracket.

Step 10 — DVD Drive

● Remove two 7mm PH01 screws

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Step 11

- Grasp the DVD drive's face plate with your fingers, and pull out.

Step 12 — Cooling Fan

- Remove ten 7mm PH1 screws

- Remove two 8mm PH1 screws

- Remove two 3mm PH1 screws

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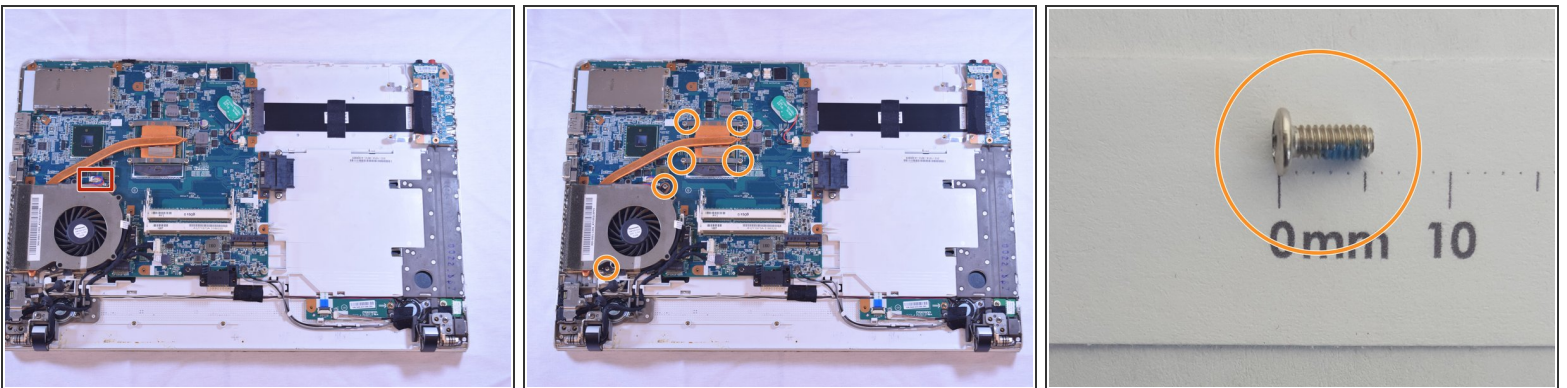© iFixit — CC BY-NC-SA   www.iFixit.com   Page 8 of 11

Step 13

- Remove SD card slot block.

- Push in until it releases.

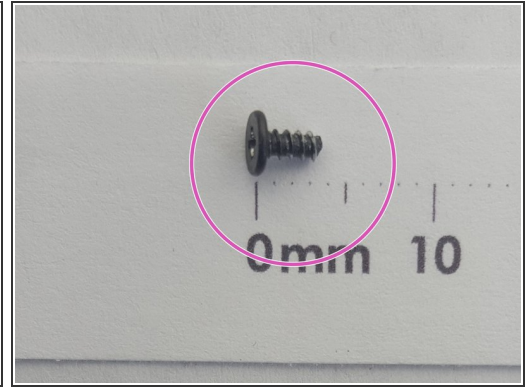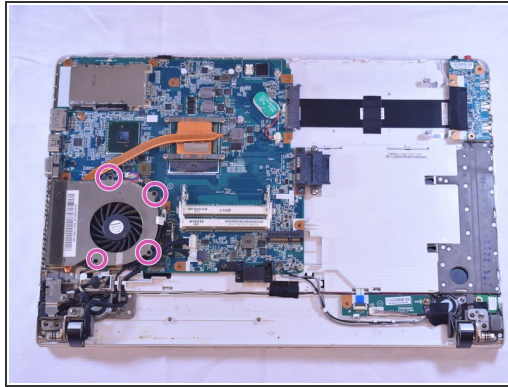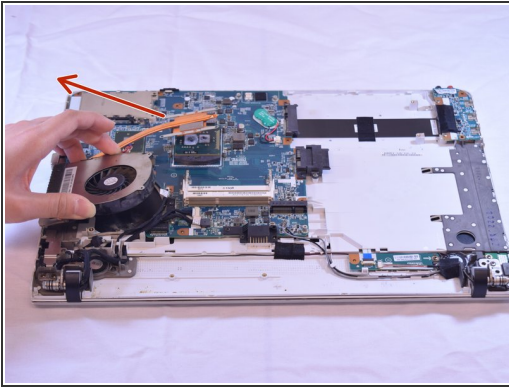- Then pull out to remove.

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Step 14
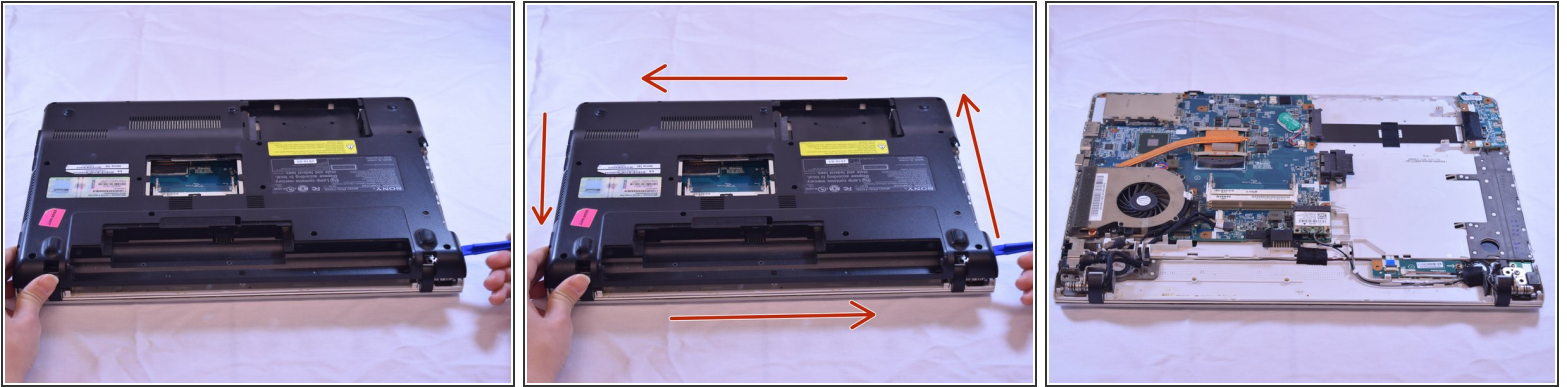
- Start by finding a loose corner, to work you prying tool into.

- Then work the tool around the sides to release cover. You may need a second tool to help keep your loose corner open.

- Lift cover away.

- (i) NOTE: If you are attempting to access other components, skip 2 steps.

Step 15

- Remove this plug using a prying tool.

- Remove seven 5mm PH01 screws.

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Step 16

- To break the thermal paste, apply gentle constant upward force until it comes free.

- Remove four 3.5mm PH000 screws to access cooling fan.

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