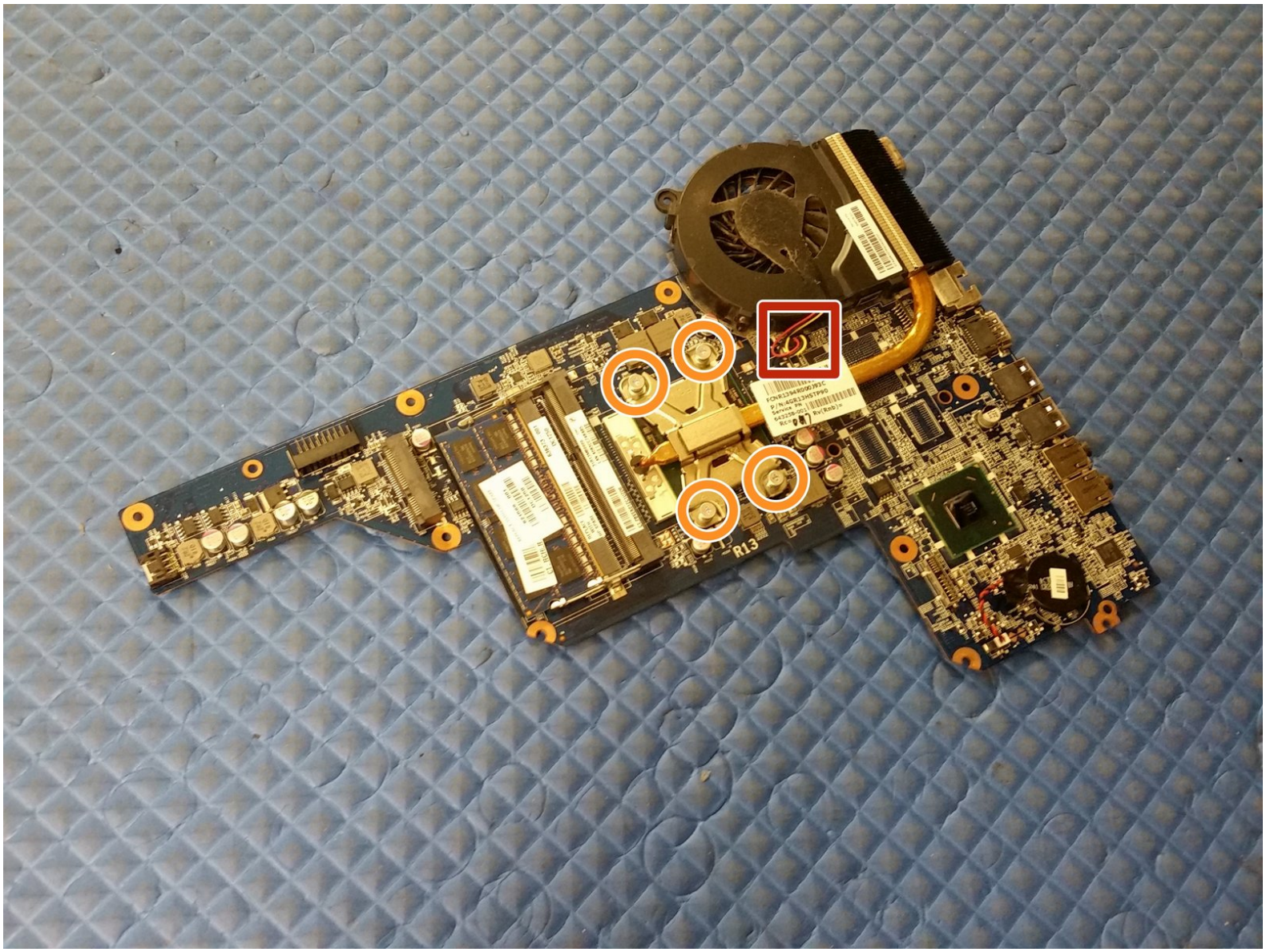
HP g4 Heatsink/Fan (or Motherboard) Replacement

This guide teaches you how to replace the heatsink/fan in an HP g4.

Written By: Joseph Sctbunio



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TOOLS:

- Essential Electronics Toolkit (1)

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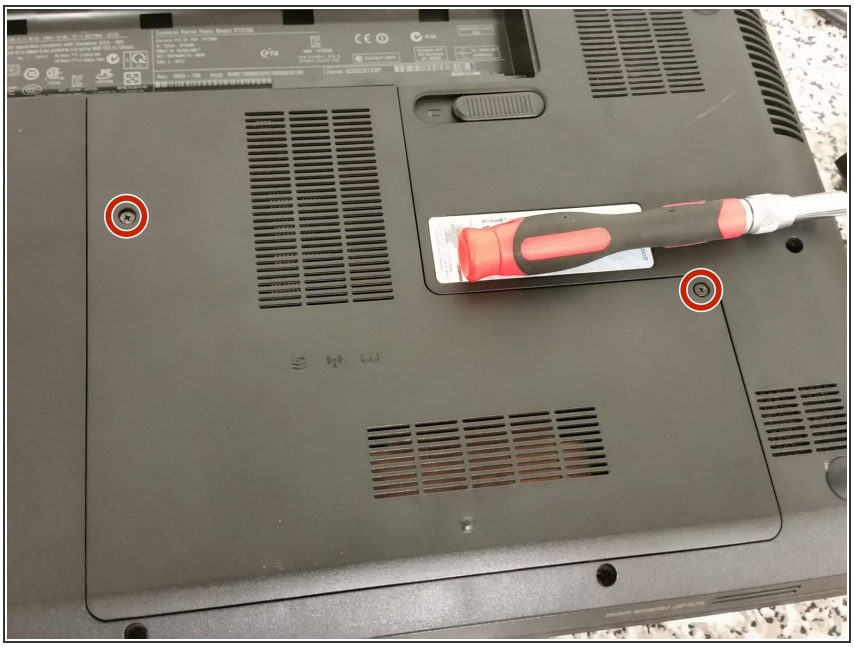
Step 1 — Remove bottom cover



- Flip the laptop bottom-upwards, and remove the two screws securing the bottom cover, and pull the bottom cover off.

Step 2 — Remove hard drive

- Simply pull the hard drive upwards and out, there are no screws. Be sure to disconnect the connector from the board.

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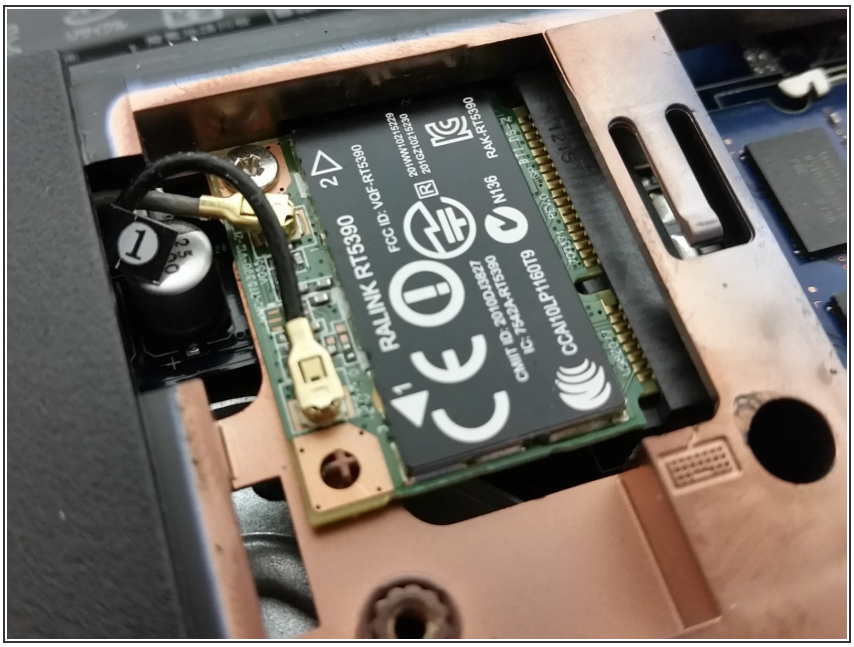
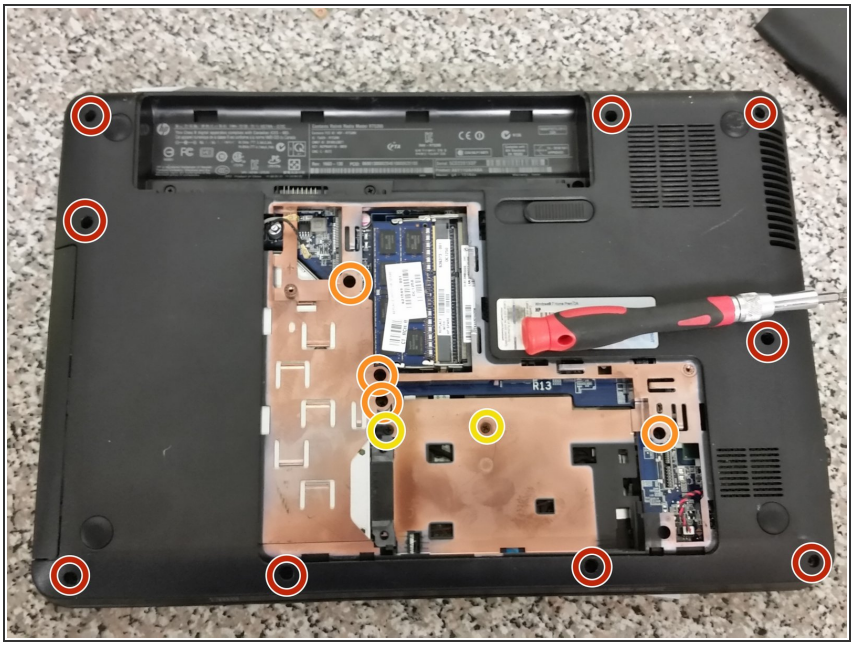
Step 3 — Remove the wireless card



- In order to remove the motherboard, you must remove the wireless card. Unscrew the single silver Philips screw holding the wireless card, pop each antenna off its connector with your fingernails, pull the wireless card out, and set it aside.

Step 4 — Remove screws



- Remove the nine long Philips screws.
- Remove the four medium-length screws from where the bottom cover was.
- Remove the two short screws from where the hard drive was.

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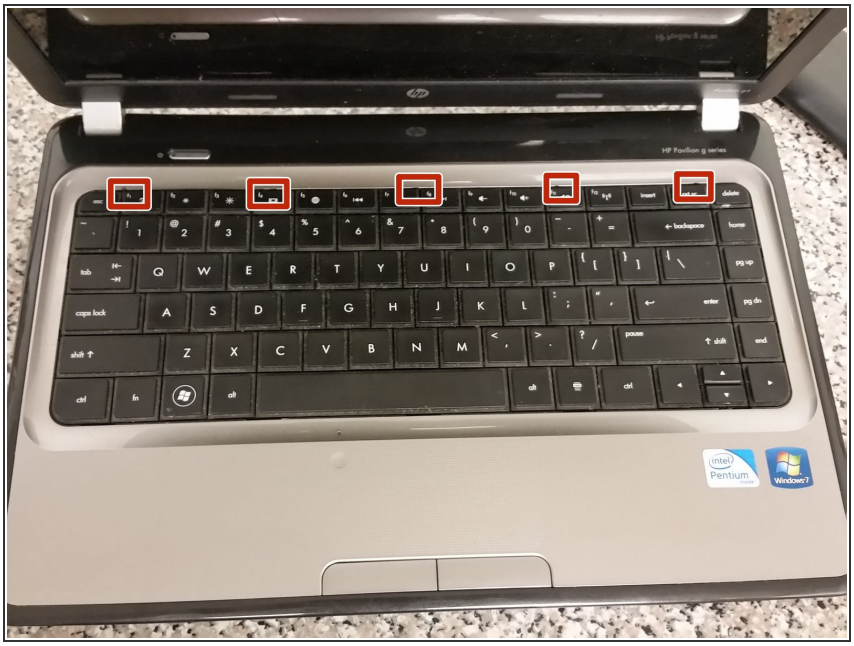
Step 5 — Remove optical drive

- Simply slide out the optical drive, the screw holding it was removed in the last step.

Step 6 — Remove keyboard



- Push the five keyboard clips towards the screen using a flathead screwdriver.

⚠ Don't pry too hard, or else you will damage the palmrest.

- Once the keyboard is loose, release the locking connector for the keyboard, and pull the cable out.

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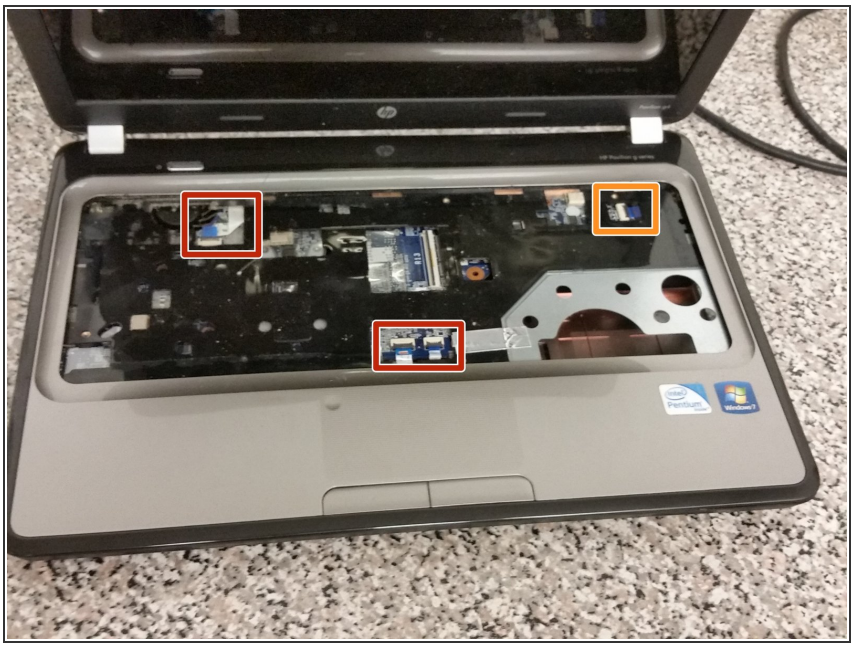
Step 7 — Remove palmrest cables



- Flip the laptop up, back to normal position, and open the screen.
- Remove all cables indicated red in the picture. (There's no need to deal with the orange-marked one just yet.)

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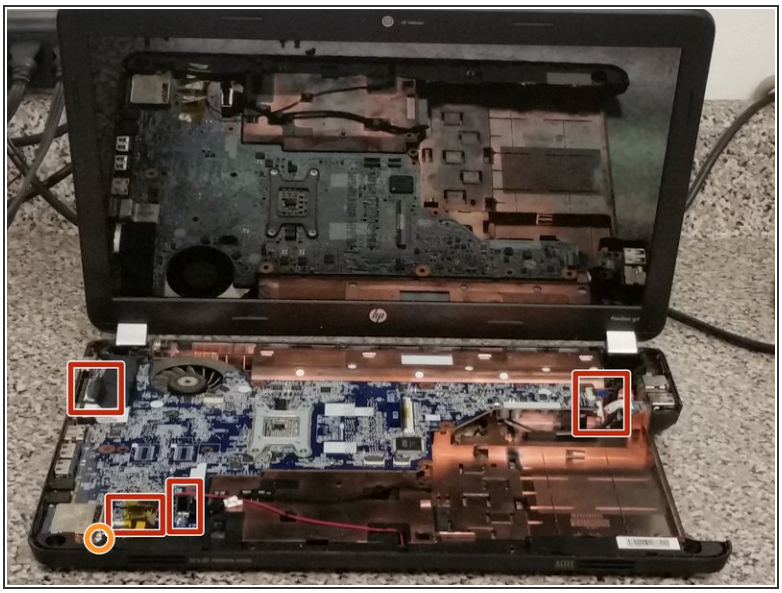
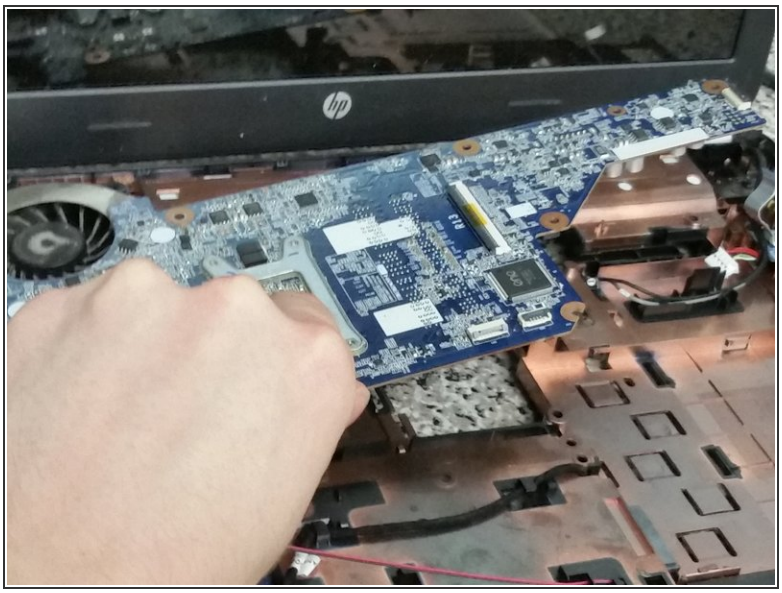
Step 8 — Remove motherboard





- Remove all marked cables from the motherboard.

- The DC jack connector may require quite some pulling. Just pull it, it'll come out.

- Also remove the single marked blue-painted screw.

- The motherboard can now be lifted upwards.

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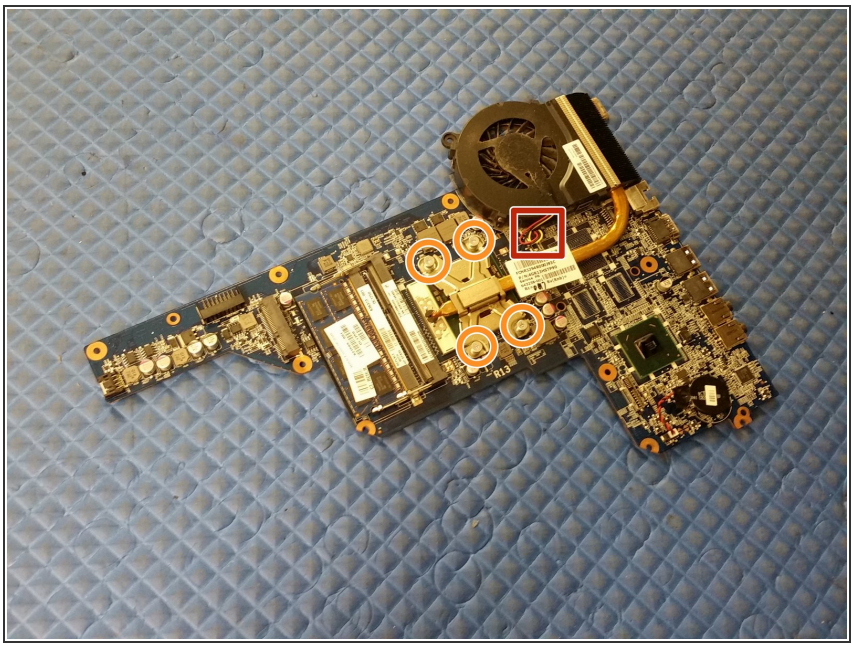
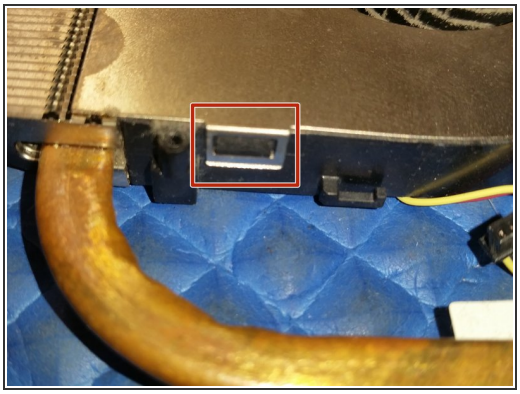
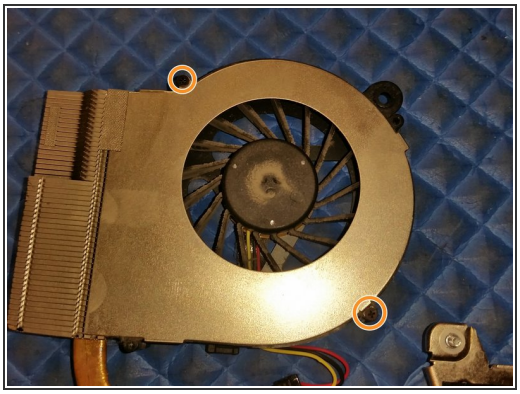
Step 9 — Remove heatsink/fan assembly from motherboard

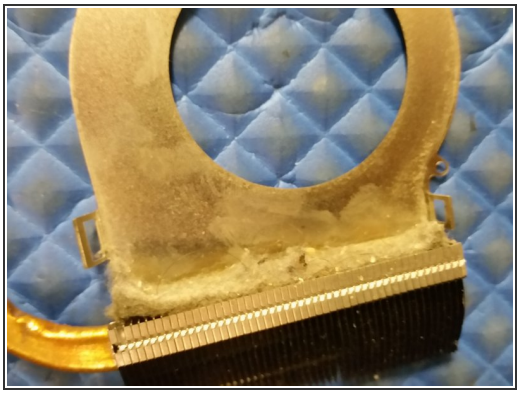


- Pull upwards on the fan wires to remove the connector from the motherboard.
- Remove the four screws from around the CPU socket.
- At this point, you're done removing the heatsink/fan assembly from the motherboard. Continue if you want to remove dust from the heatsink, otherwise you may stop here.

Step 10 — Remove fan clip & screws







- Bend the metal clip outwards.
- Get out the Philips #0 bit, and remove the two very small Philips screws from the assembly.
- Wiggle the fan out, separating it from the rest of the assembly.
- You're done! Check out that dust in this g4 in the third picture.

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

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