



Xbox One X Project Scorpio Edition Motherboard Replacement

This guide explains how to access the Motherboard of an Xbox One X Project Scorpio Edition manufactured by Microsoft in 2017.

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INTRODUCTION

This guide shows how to remove the motherboard of the Xbox One X. It contains the same steps necessary to remove the heat sink.



TOOLS:

- [TR9 Torx Security Screwdriver](#) (1)
 - [Precision Tweezers Set](#) (1)
 - [iFixit Opening Tool](#) (1)
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Step 1 — Outer Case



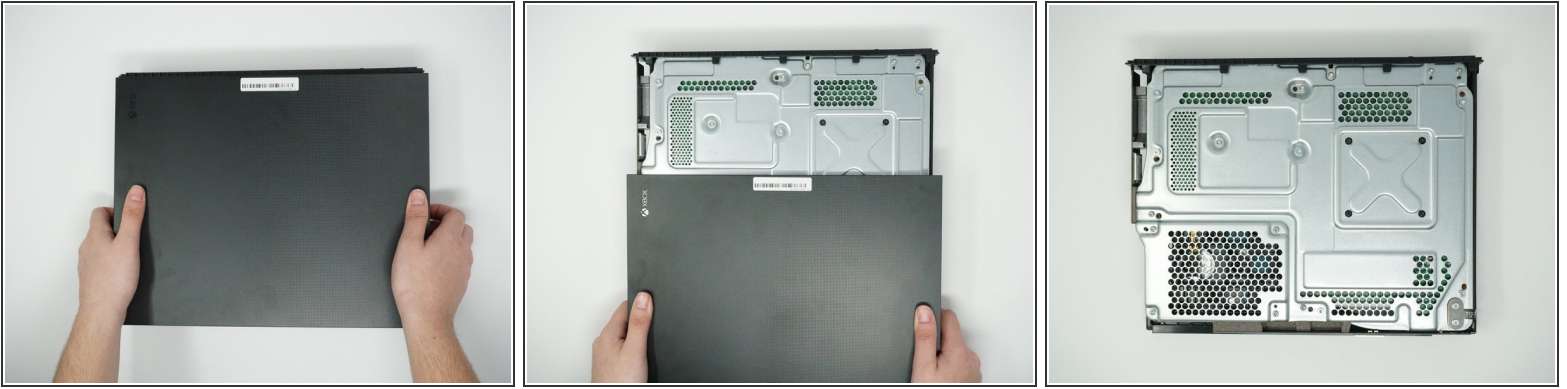
- Use a T9 Torx screwdriver to remove the 13mm screw which is under and to the left of the power input.

Step 2



- Using precision tweezers, remove the screw tab located on opposite side of the box.
- Use a T9 Torx screwdriver to remove the 13mm screw revealed underneath the tab.

Step 3



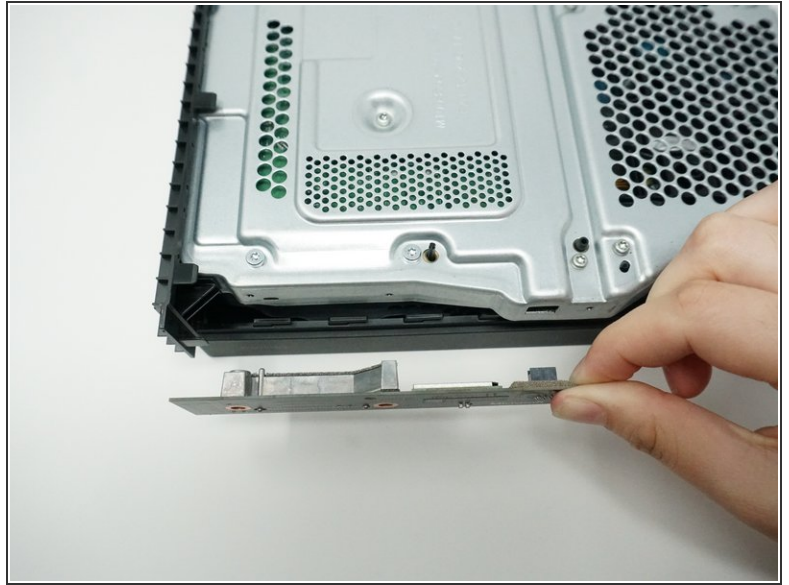
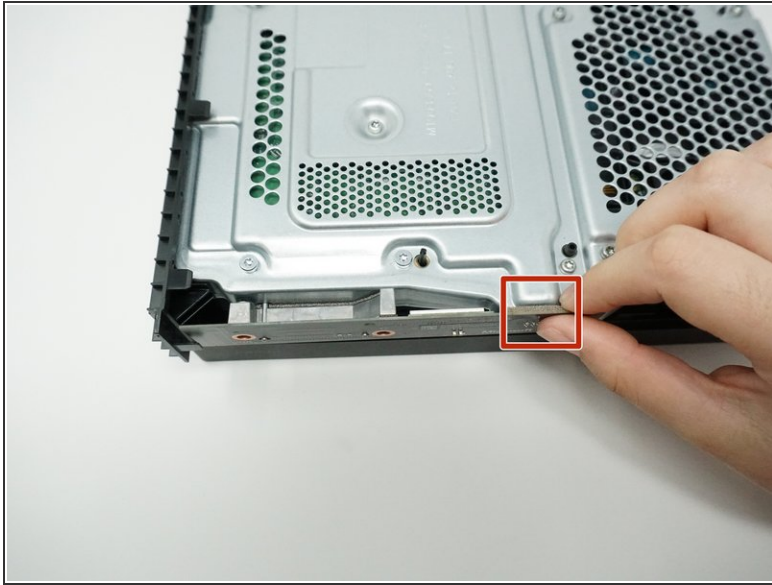
- Orient the case so that the front of the Xbox (the side with the power button) is facing you.
- Remove the top of the case by sliding the case towards you.

Step 4




- Using a T9 Torx screwdriver, remove the two 15mm silver screws that are holding a circuit board/panel to the side of the interior metal casing.
- Using the same screwdriver, remove the 9mm black screw located farther to the right on the same circuit board/panel.

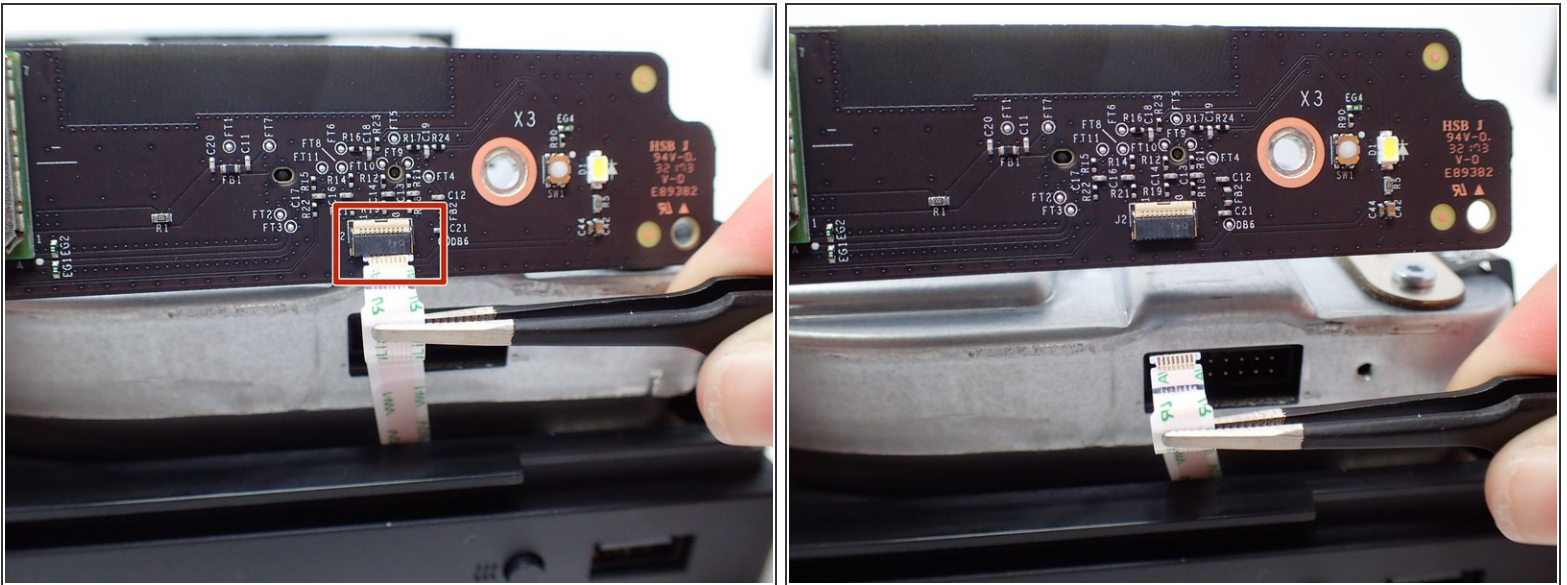
Step 5



- Remove the unscrewed panel from the side of the device by pulling it toward you.

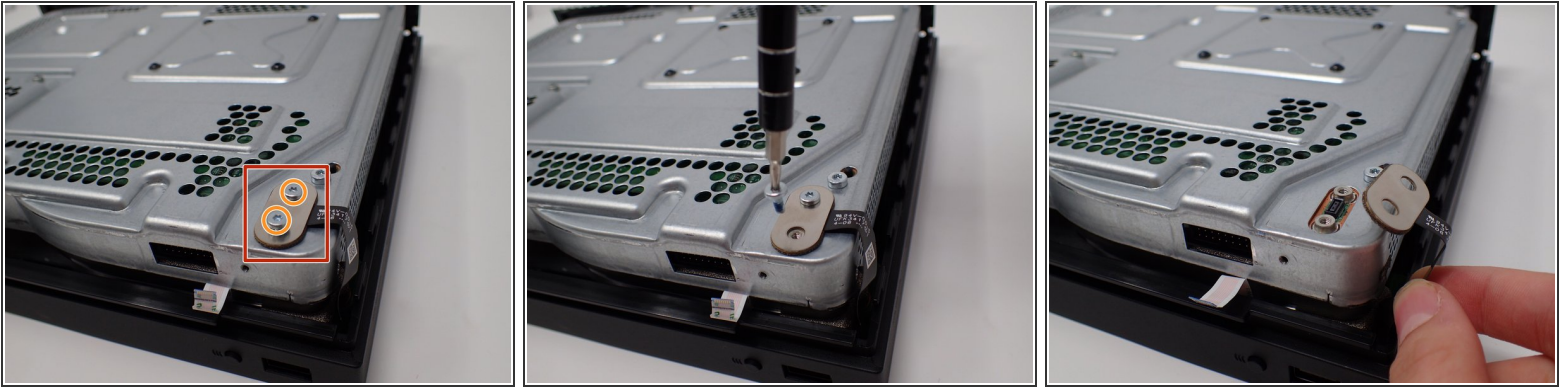
 Be mindful of the connector, as it is fragile.


Step 6



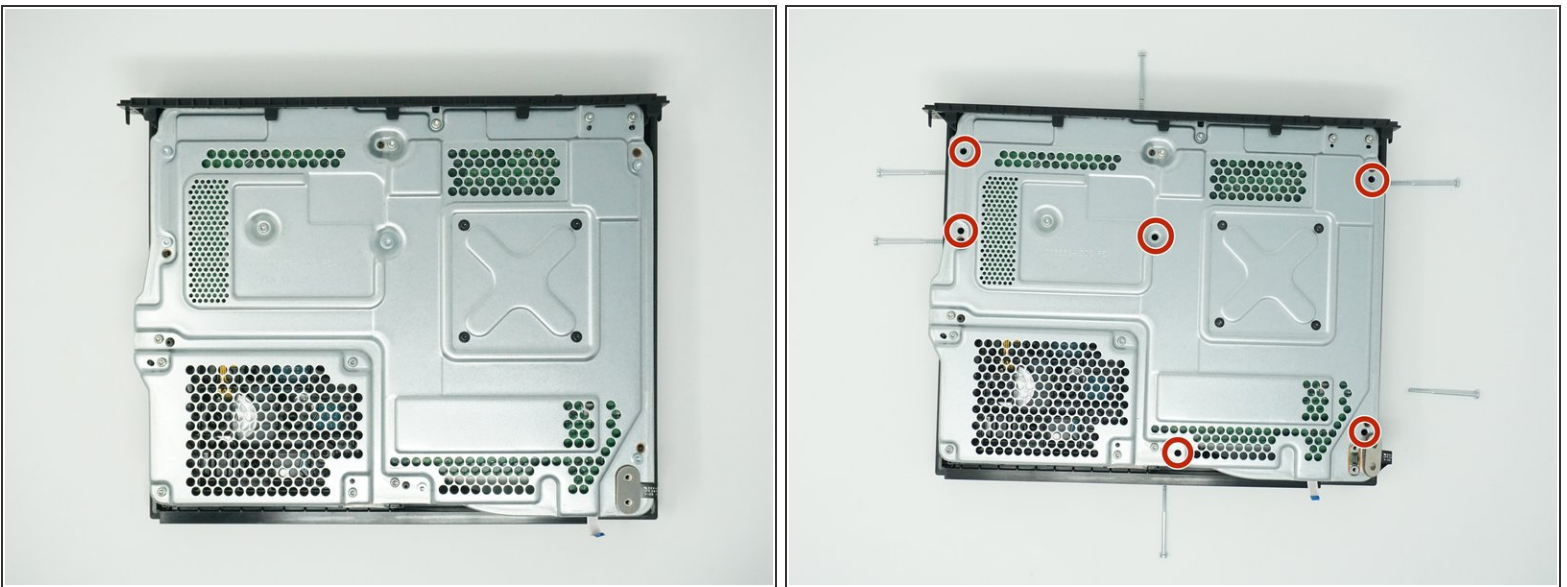
- Pull the upper edge of the white clip down, and then remove the white connector from the dislocated panel using precision tweezers.
- ⓘ Do not force the connector out, as it is fragile. Wiggling may be necessary.

Step 7



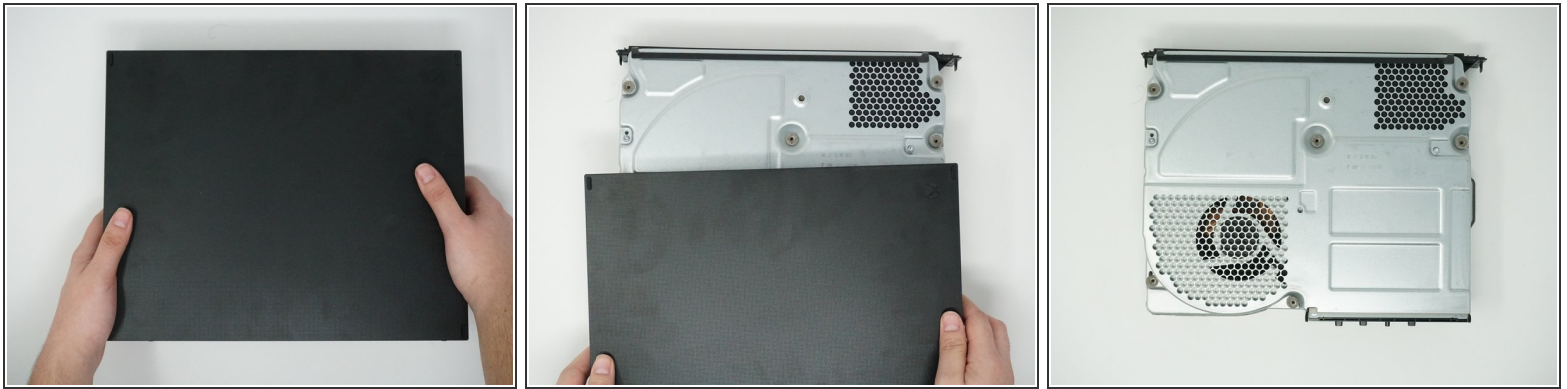
- On the top of the device in the corner directly above the white connector, there is an oval plate held in place by two screws.
- Remove both of these 7mm screws with a Torx T9 screwdriver.
- Lift the detached plate off to the side.
-  The plate is still connected to the device.

Step 8



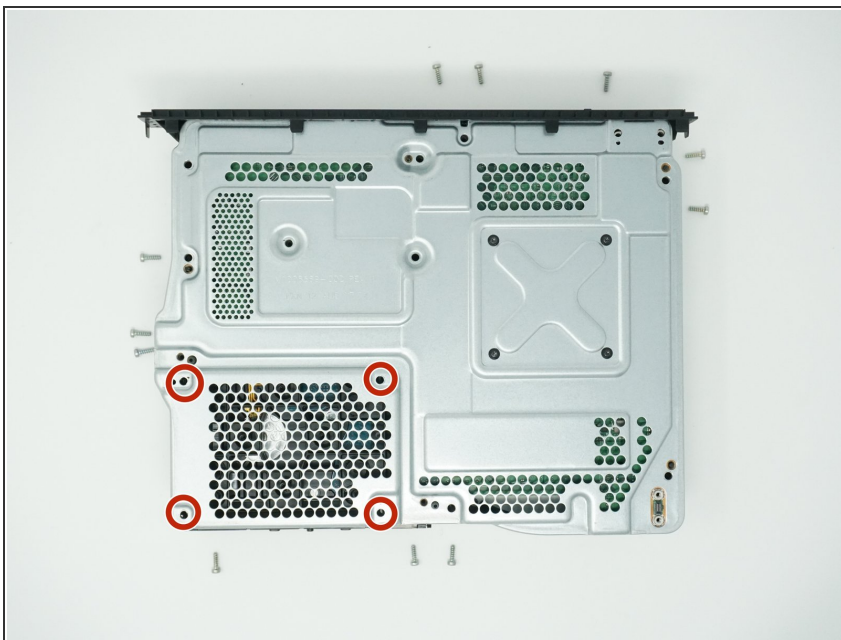
- Use a Torx T9 screwdriver to remove the six 47mm long screws, which attach the bottom side of the outer case.

Step 9



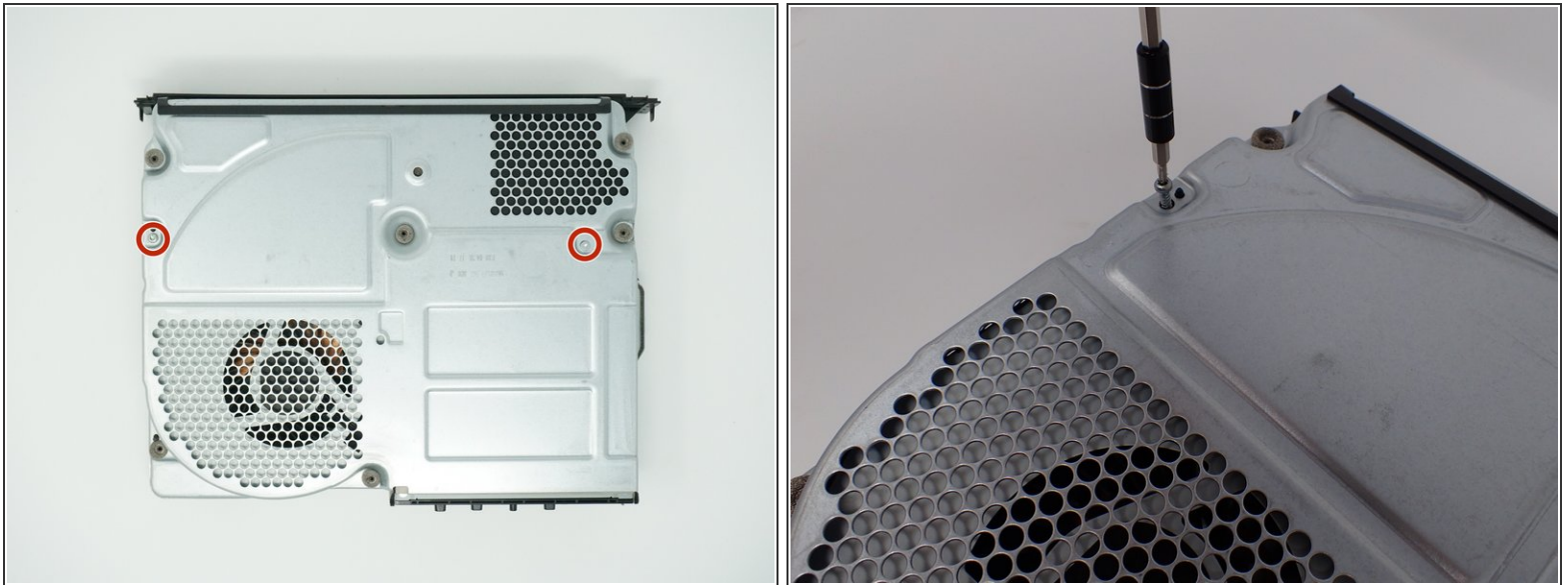
- Turn the Xbox over, so that the bottom of the case is on top.
- Lift the bottom of the case off of the Xbox by pulling it up and toward you.

Step 10 — BD-ROM Drive



- Flip over the device again, so that the top is facing upwards.
- Remove the 4 smaller 11mm screws in the lower left corner on the metal casing using a Torx T9 screwdriver.

Step 11



- Flip over the device again, so that the bottom is facing upwards.
- Using a Torx T10 screwdriver, remove the two screws located on opposite sides of the metal casing. One is near the fan vent, and the other is near the power supply vent.
- ⓘ The left screw is 11mm and the right screw is 7.5 mm.

Step 12



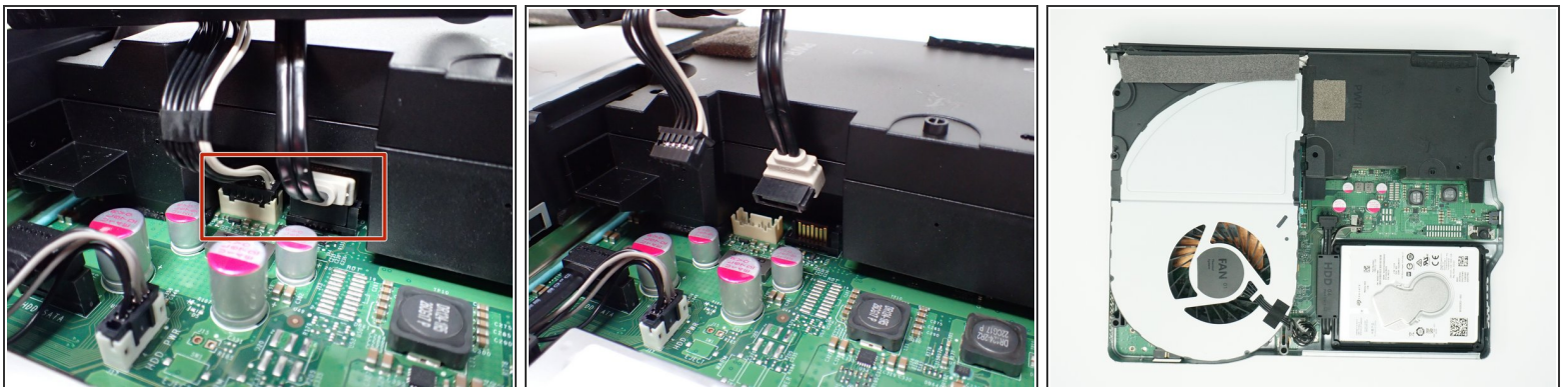
- Remove the metal casing by pulling it upward, revealing the interior components of the device.

Step 13



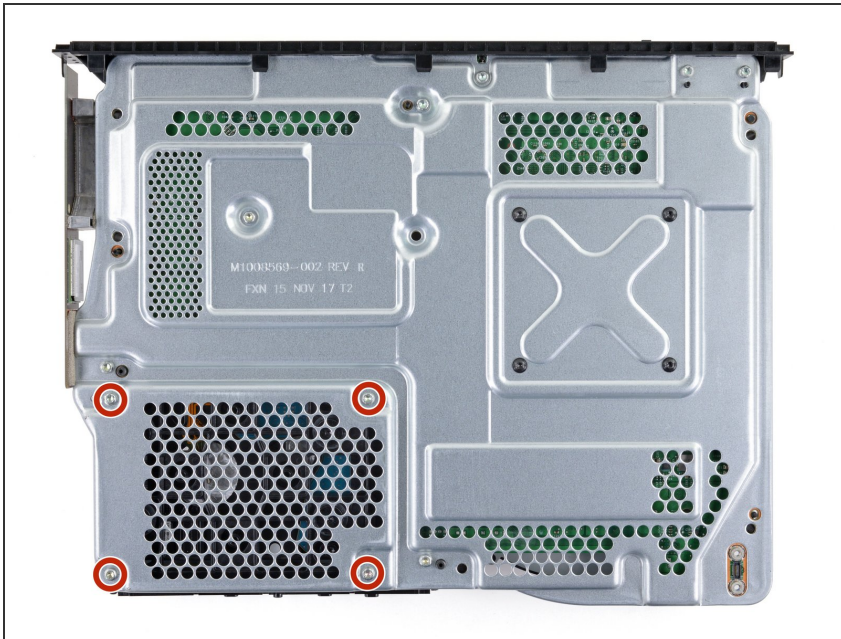
- Lift and rotate the BD drive to reveal the wires that connect it to the motherboard.

Step 14



- Using your fingers, gently unplug the two sets of wires connecting the drive to the motherboard.
 - Alternatively, you can disconnect the wires from the drive-side sockets. This is much easier if you have not removed the power supply.
- The BD drive should now be completely detached from the rest of the device, and it can be set aside.

Step 15 — Remove the screws holding the hard drive to the case



- Flip the console over.

⚠ The disc drive is only attached to the motherboard by two cable connectors. Hold the disc drive when flipping the console over to avoid damaging it.

- Use a T10 Torx screwdriver to remove the four 11.4 mm screws securing the hard drive to the upper metal case.

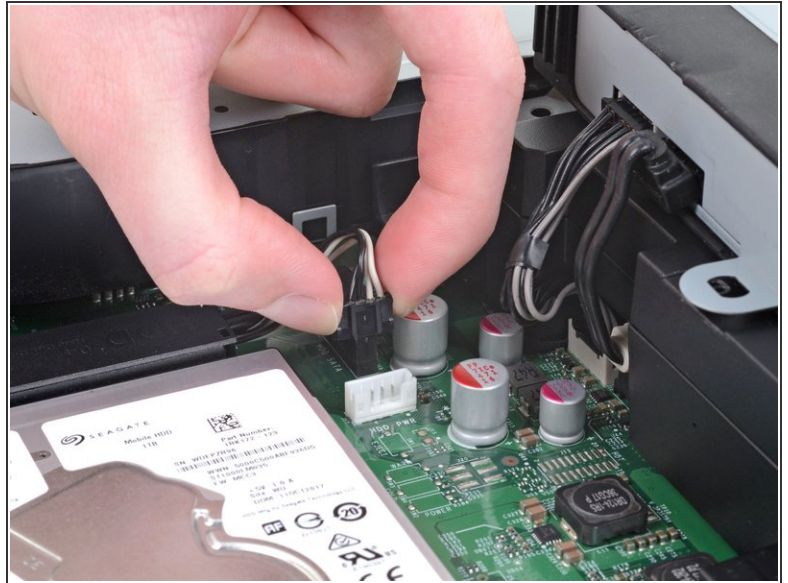
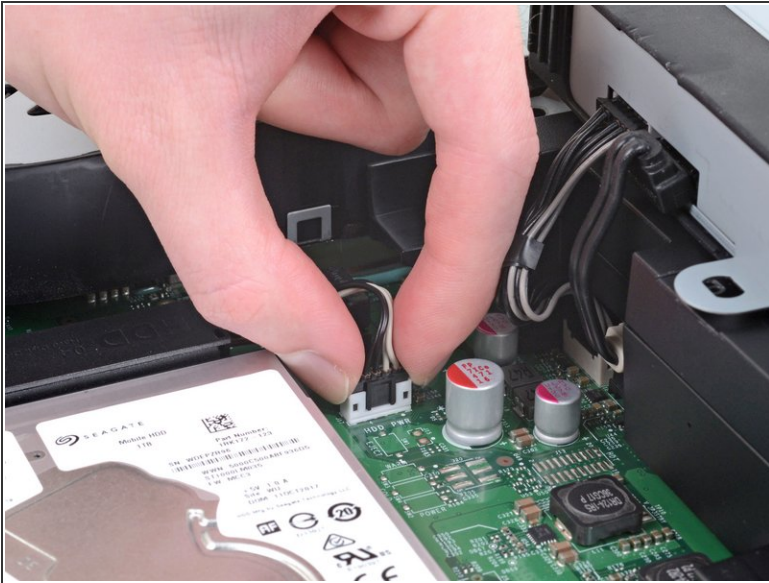
Step 16 — Move the disc drive



- Flip the console back over, keeping in mind the disc drive is loose.
- Lift the disc drive up so that its metal tab is unhooked from the power supply.
- Flip the disc drive over and place it on the power supply. The disc drive should end up facing the opposite direction it started in.

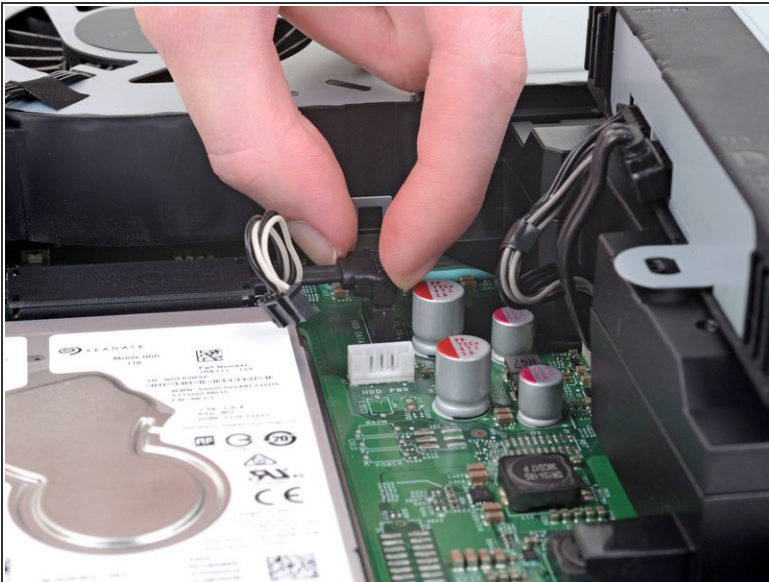
⚠ The disc drive is plugged into the motherboard. Avoid pulling and bending the cables more than necessary to prevent damage.

Step 17 — Unplug the bundled cable connector



- Unplug the bundled cable connector connecting the hard drive to the motherboard by pulling directly upward.

Step 18 — Unplug the SATA cable



- Unplug the SATA cable connecting the hard drive to the motherboard by pulling directly upward.

Step 19 — Remove the hard drive



- Lift the hard drive assembly up out of the upper metal case.

⚠ When moving the hard drive, hold it by the sides to prevent damage.

Step 20 — Remove the mounting bracket



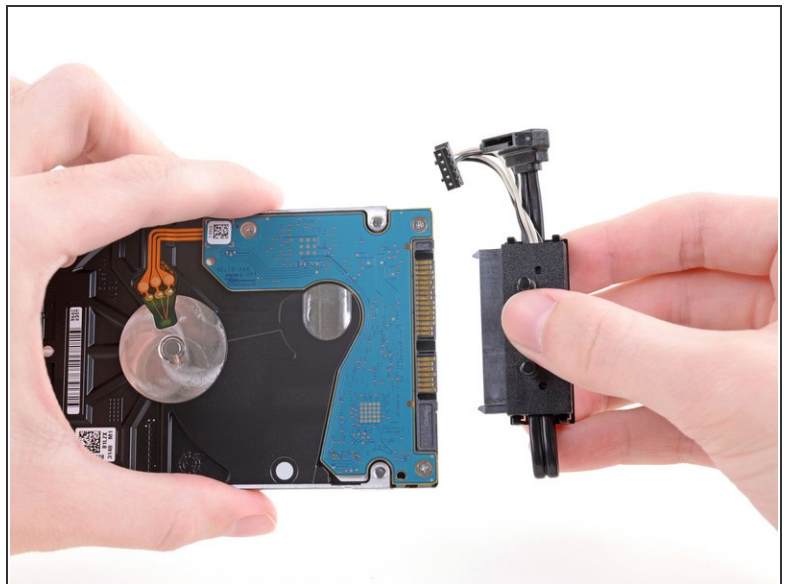
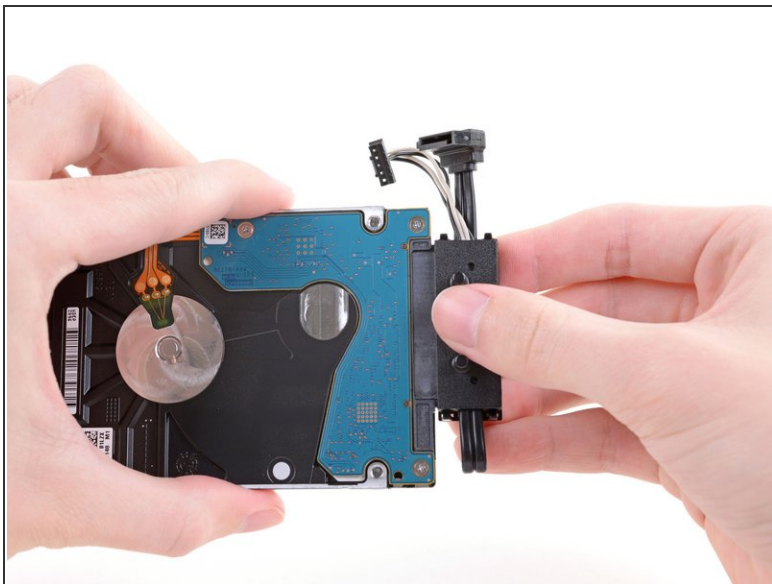
- Flip the hard drive over so that the plastic mounting bracket is facing upward.
- Use a T10 Torx screwdriver to remove the four 8.6 mm screws attaching the hard drive to the mounting bracket.

Step 21



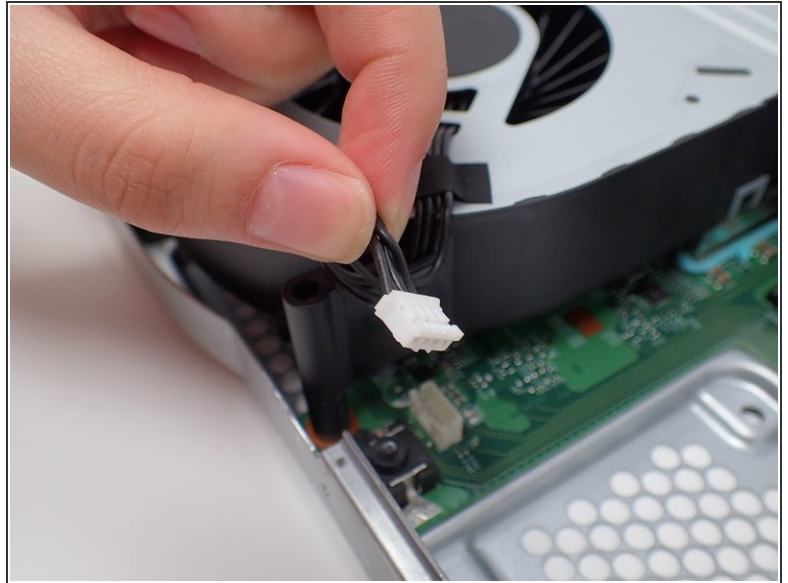
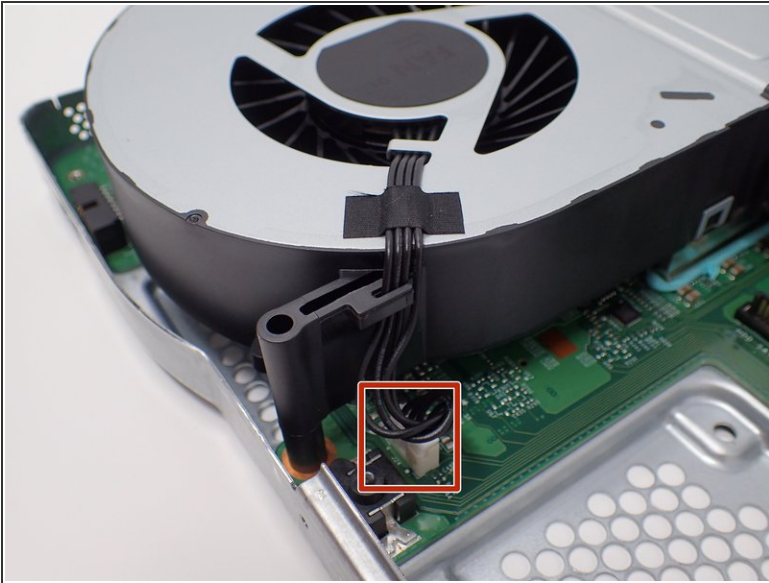
- Lift the mounting bracket off the hard drive.

Step 22 — Unplug the hard drive connector



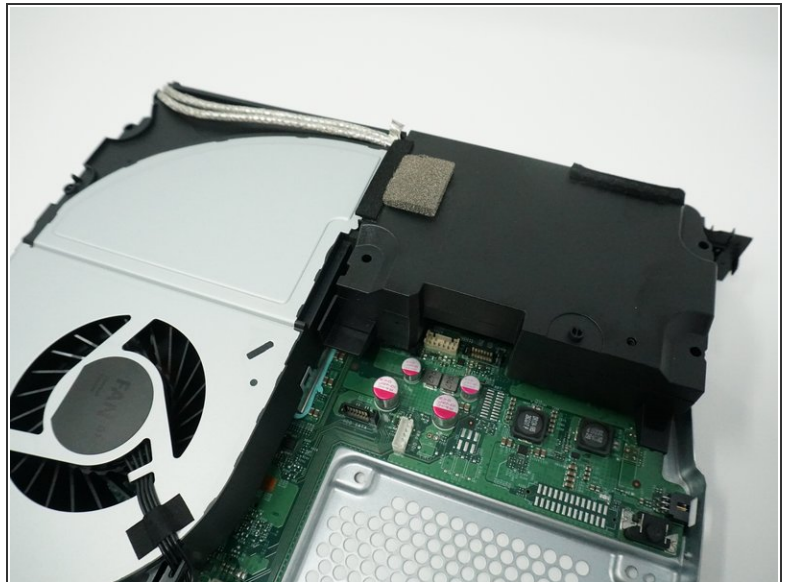
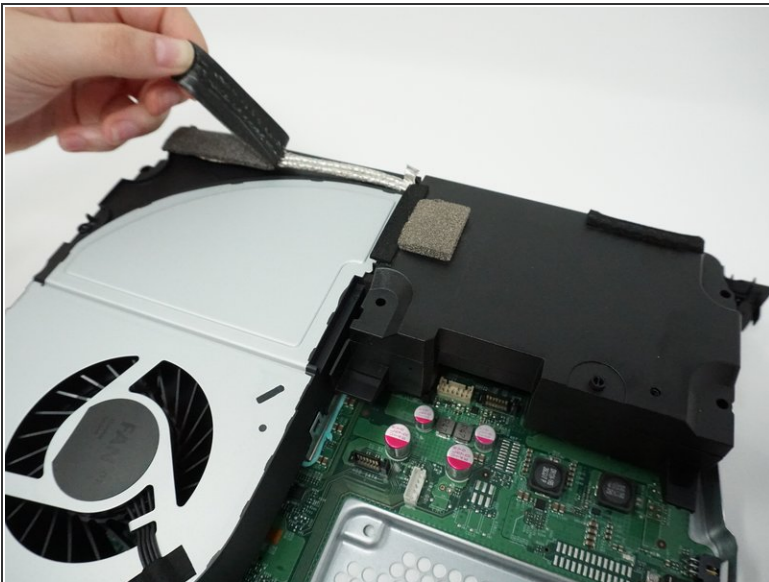
- Unplug the hard drive connector from the hard drive by pulling parallel to the length of the drive.

Step 23 — Fan



- Disconnect the plastic wire connector from the motherboard.

Step 24



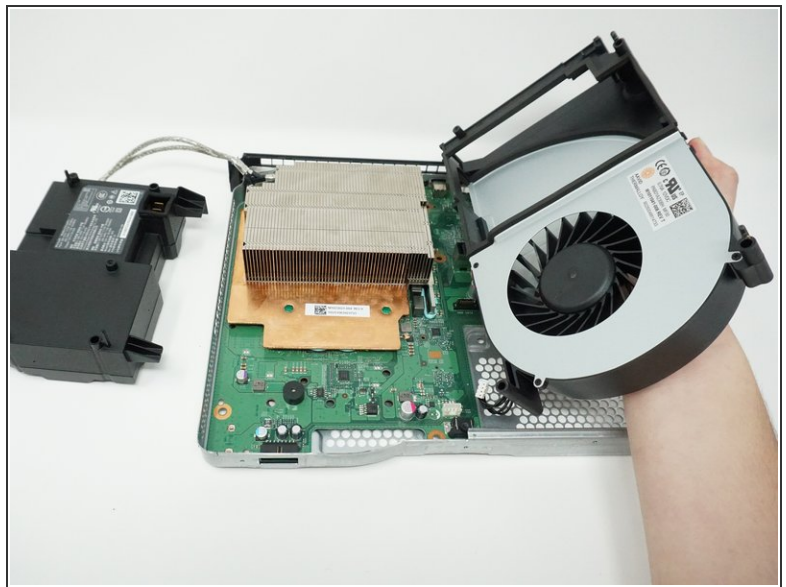
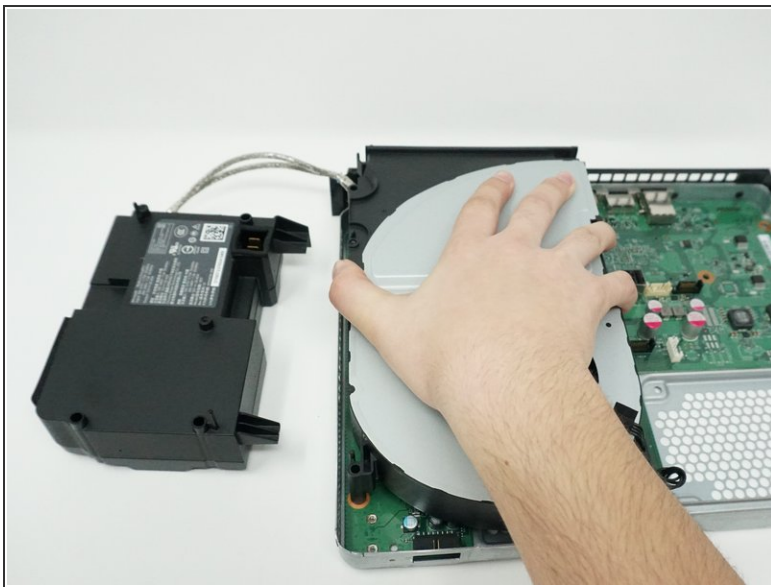
- Remove the piece of foam by gently peeling it off the cooling system.
- ⓘ After the foam has been removed, its adhesive may not work as well.

Step 25



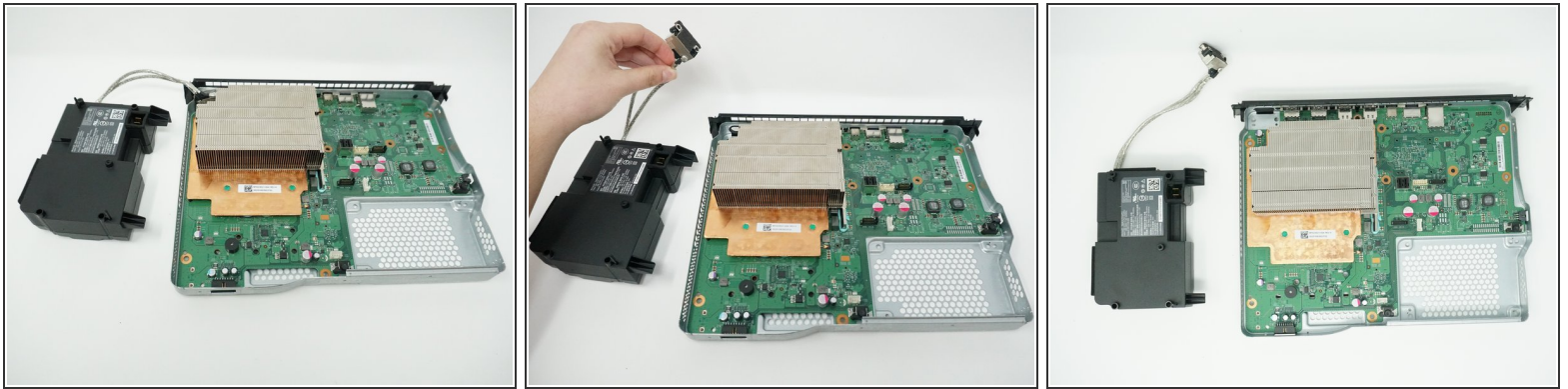
- Remove the power supply by lifting it off the motherboard, while leaving its cord attached.
- Set the power supply outside of the case so that the cord is no longer over the cooling system.

Step 26



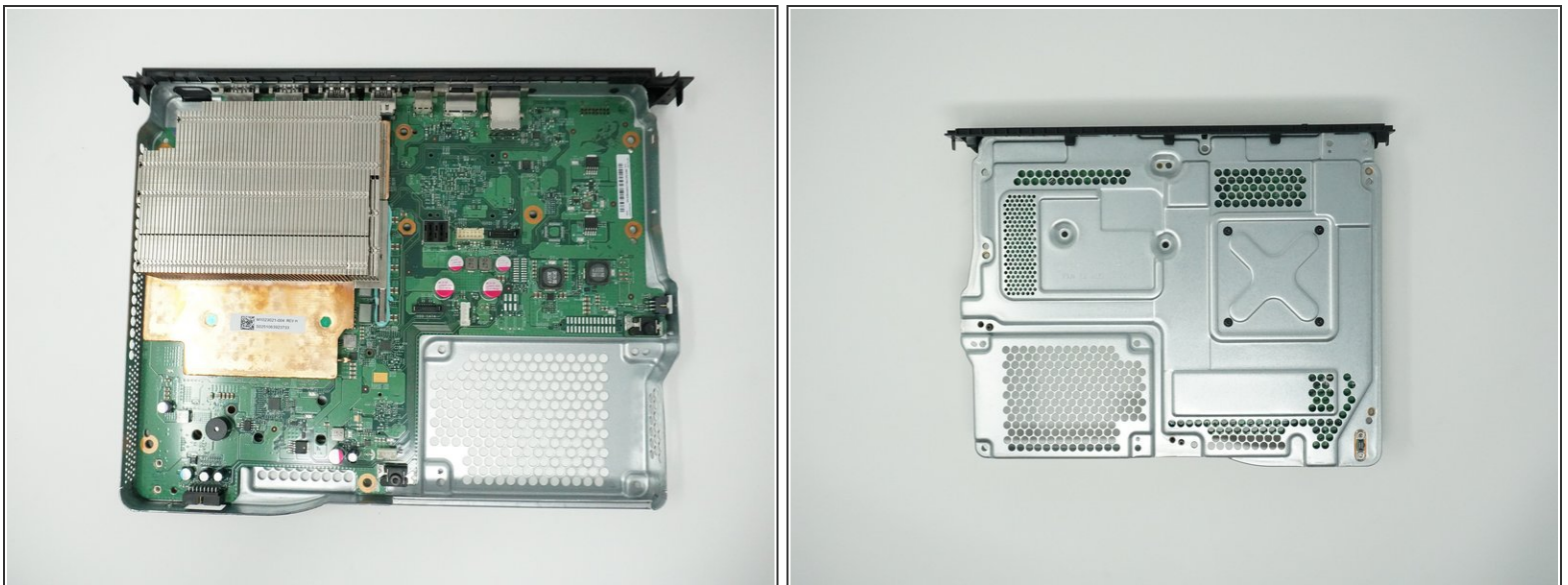
- Remove the cooling system by lifting it vertically off of the motherboard.

Step 27 — Power Supply



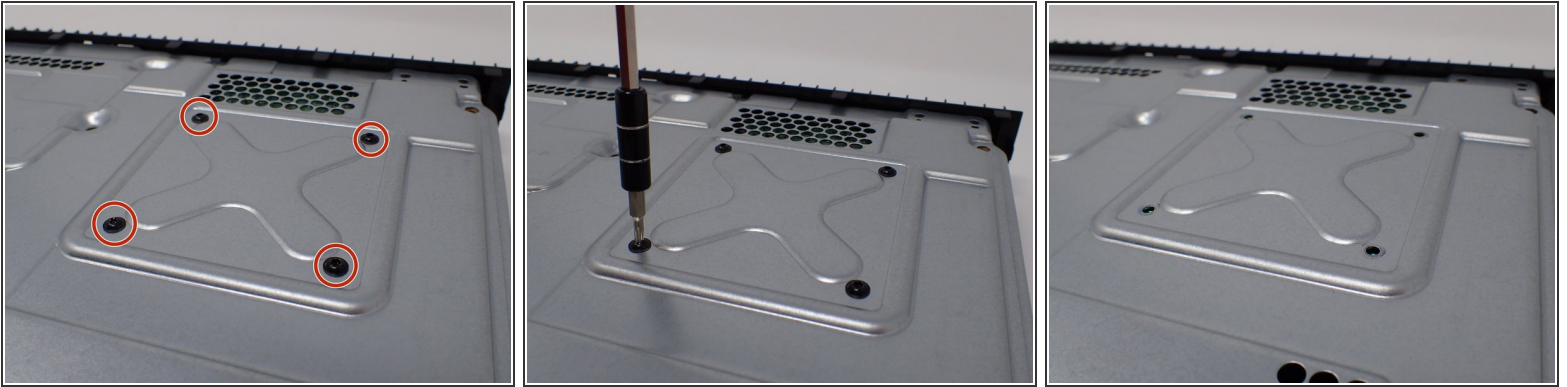
- Lift the metal piece connected to the cord out of the case.

Step 28 — Heat Sink



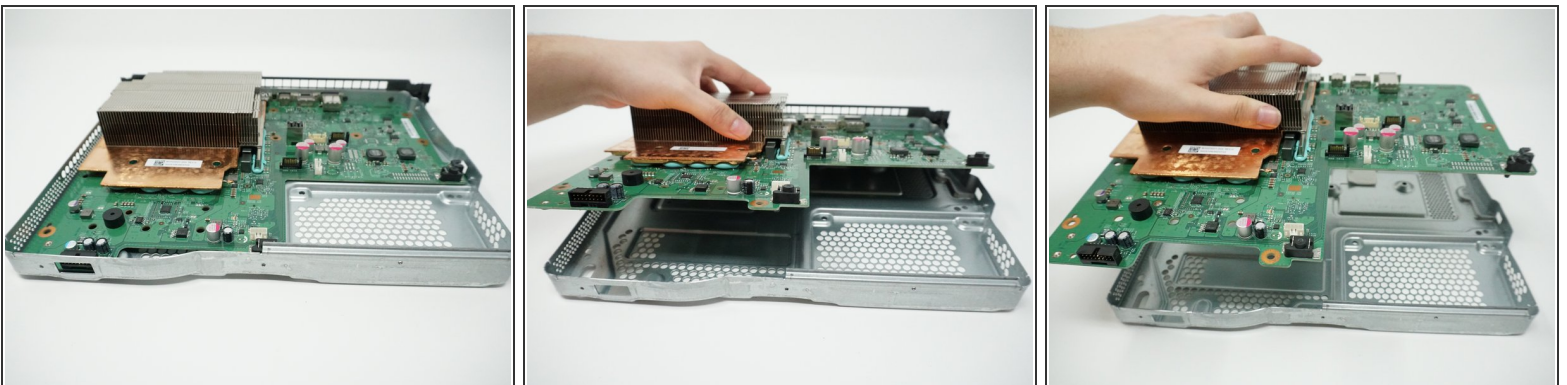
- Flip the device over, so the bottom of the metal casing is facing up.

Step 29



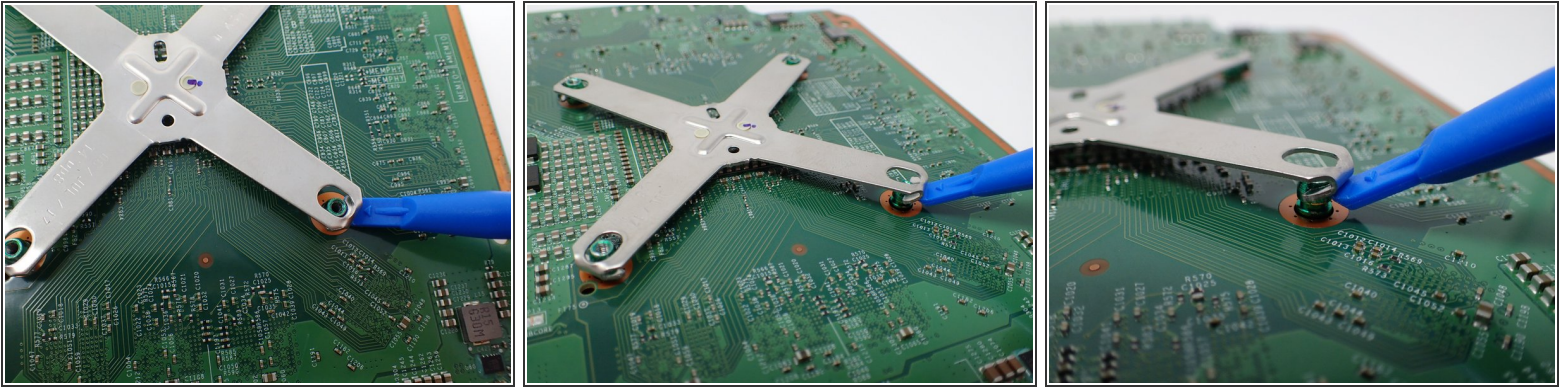
- Using a T9 Torx screwdriver, remove the four 9mm screws that are holding the heat sink to the outer metal casing.

Step 30



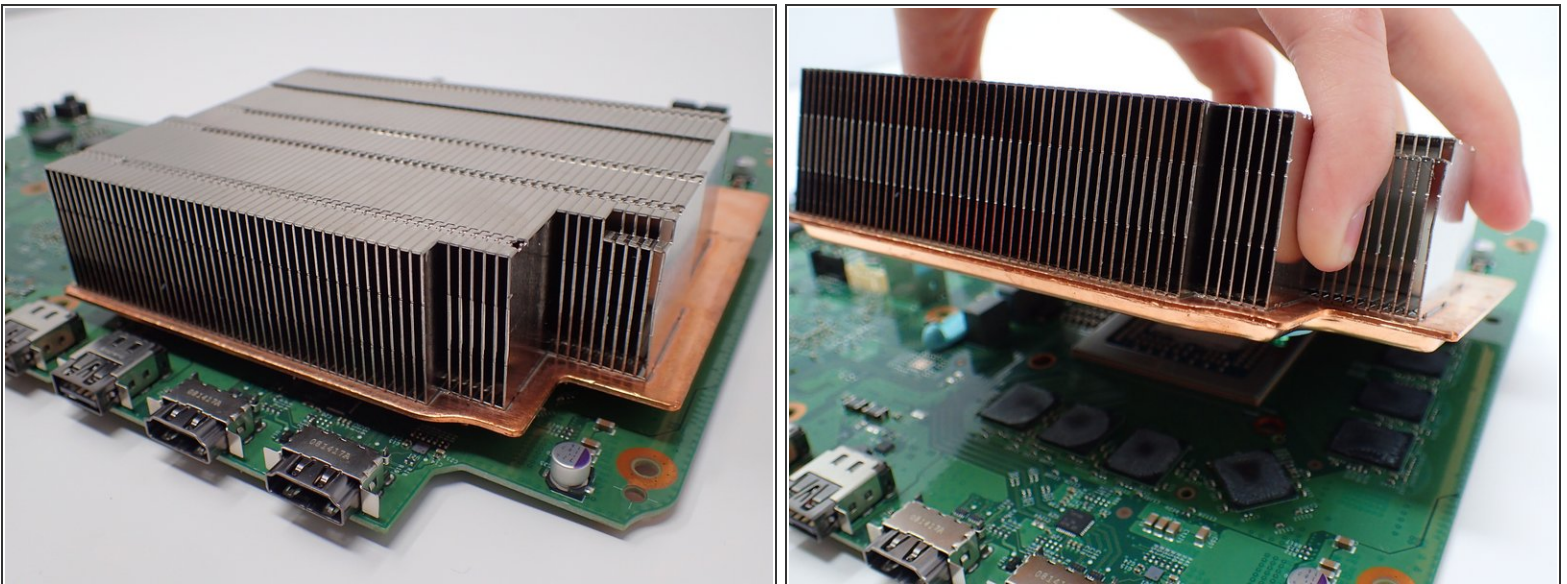
- Flip over the device again, so that the metal casing is on the bottom.
- Lift the motherboard vertically to remove it from the casing.

Step 31



- Flip the motherboard over.
 - Using a plastic opening tool, pry the corners of the x-shaped metal piece so that they each detach from the motherboard.
- ⚠ Be sure to pry each metal corner up slowly to avoid damaging the motherboard.
- ⚠ It is not recommended to use screwdriver/other metal tools not meant to pry things open. Use an opening tool or spudger.

Step 32



- Lift the heat sink to detach it from the motherboard.

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