Sega Dreamcast Logic Board Replacement
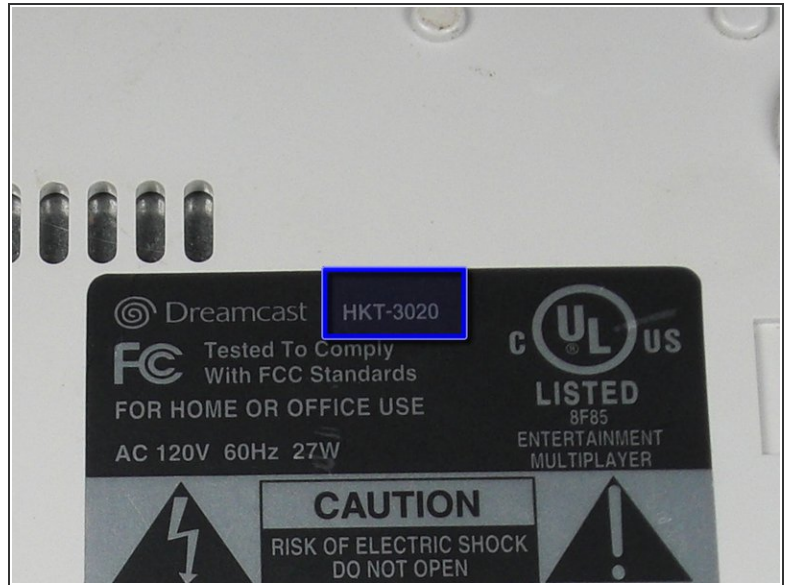
Written By: wkwong

INTRODUCTION

A guide to remove the Logic Board from the Sega Dreamcast.

🔧 TOOLS:

- Anti-Static Wrist Strap (1)
- Phillips #00 Screwdriver (1)
- Phillips #2 Screwdriver (1)

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Step 1 — Expansion Bay

⚠️ Verify that the console is disconnected from the AC outlet before you begin.

● **Flip the console** over on its back.

● **Take note of your model number**, in case replacement parts are needed.

Step 2

● **Remove the expansion bay** by applying pressure to the small clip on the expansion bay while prying it away from the console.

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Step 3 — Top Cover

- **Locate and remove all four black 12mm Phillips #02 screws** from the underside of the console.

- (i) Note: Remove the expansion bay to locate the fourth screw

Step 4

- ⚠ Internal components can be loose. Be careful that they do not fall out when removing the cover.

- Turn the console right side up.

- **Remove the top cover** by gently lifting the upper portion of the console.

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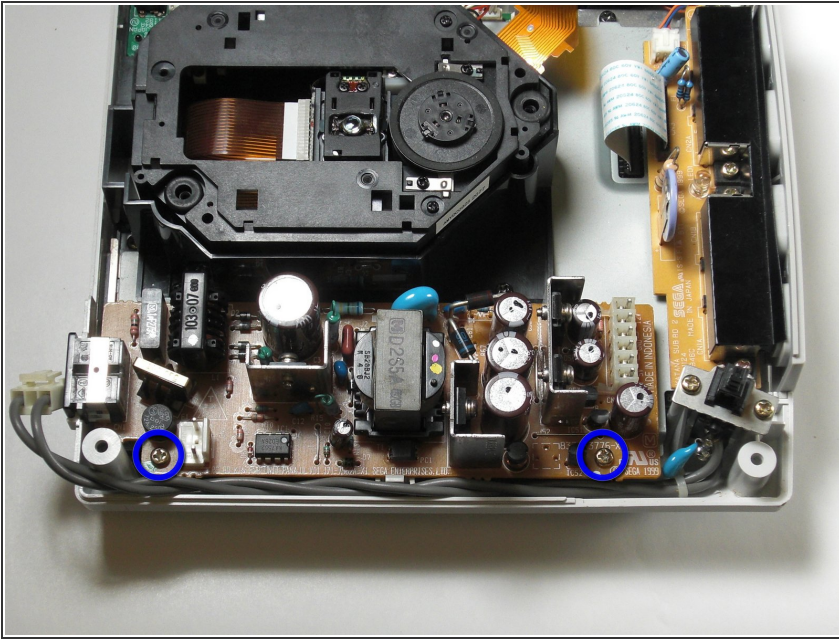
Step 5 — Power Block (Power Supply)
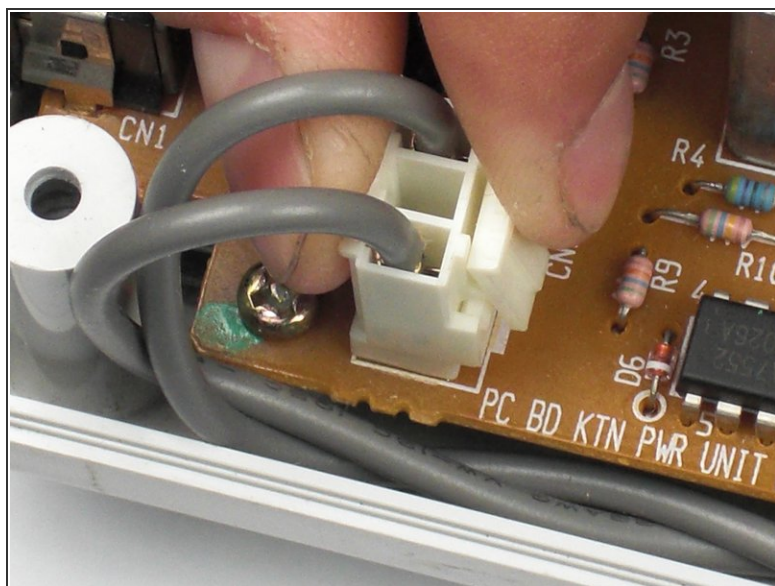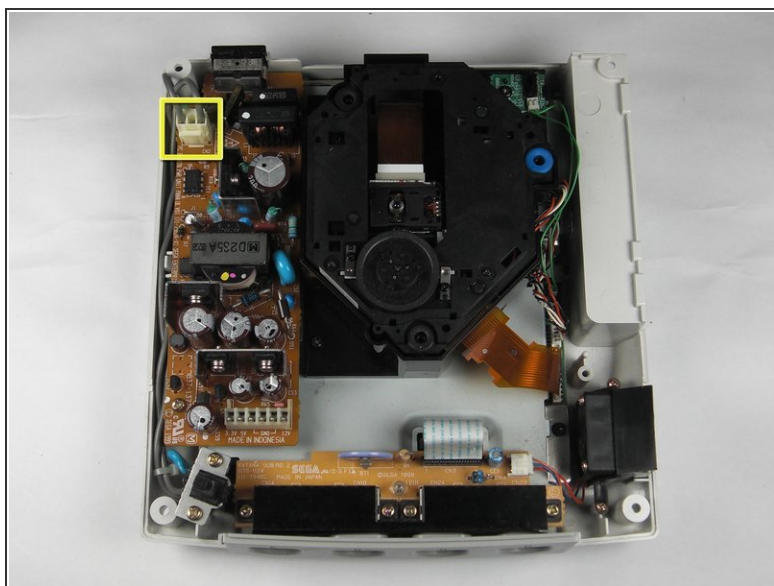
⚠️ **Verify that the console is disconnected from the AC outlet before you begin. If you have just powered off the system, give the capacitors a few minutes to discharge before you begin working.**

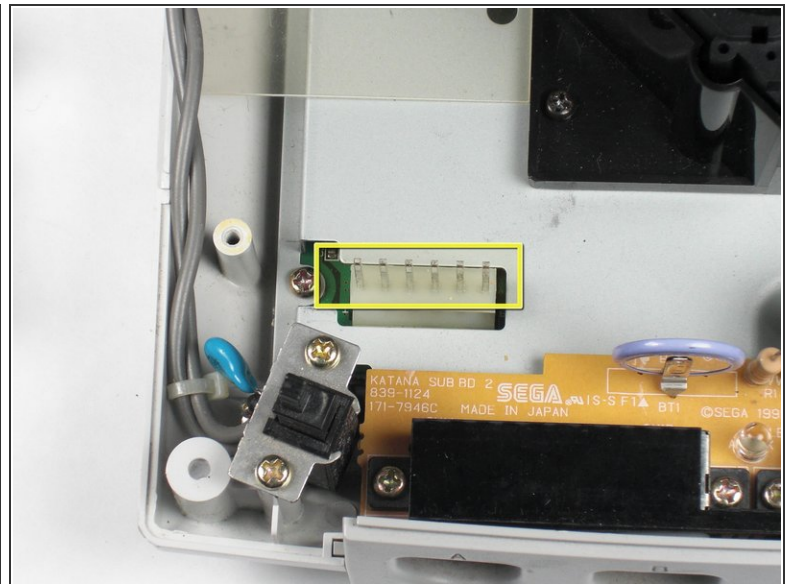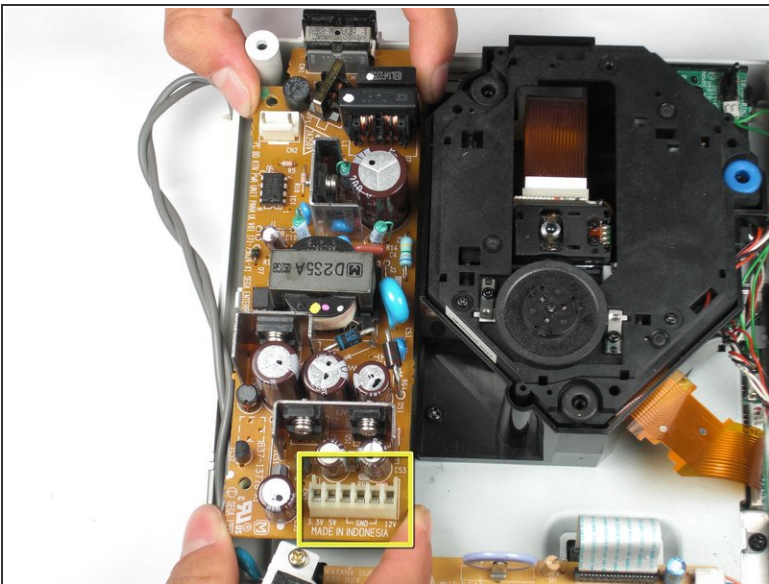- **Remove the white female pin header** by clamping the clip and pulling it up gently from the power board.
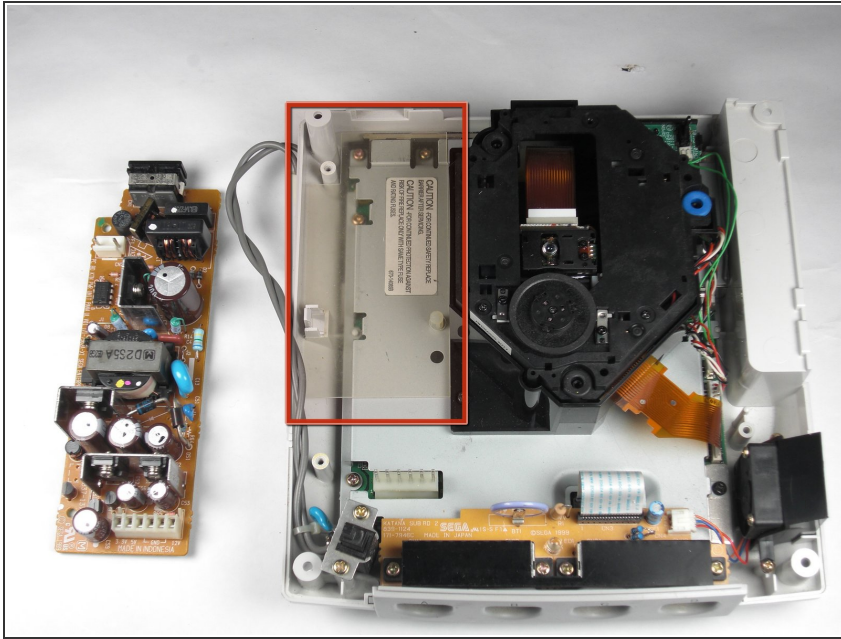
Step 6

- **Remove the two 10mm Philips #02 screws** that are fastened to the power block.

Step 7

- **Do not bend the male pin header** between the mounted head when you remove the power supply from the chassis.

- **Remove the power board** by using both hands to gently lift the power board away from the console.

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Step 8

- **Remove the clear plastic film** that is tucked between the power supply and the chassis.
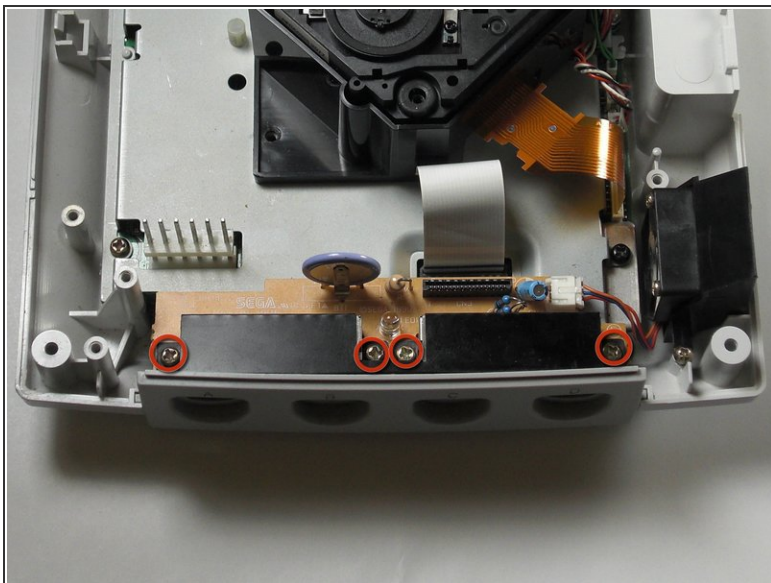
Step 9 — Controller Port
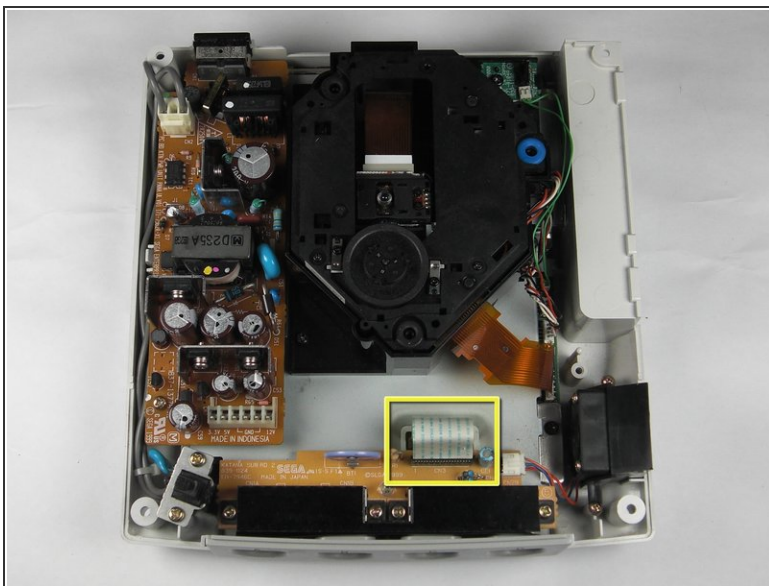
⚠️ Be gentle with the white controller cable as it can be a bit fragile.

- **Disconnect the white controller cable** by gently pulling the the cable while wiggling it back and forth until it detaches from the controller board.
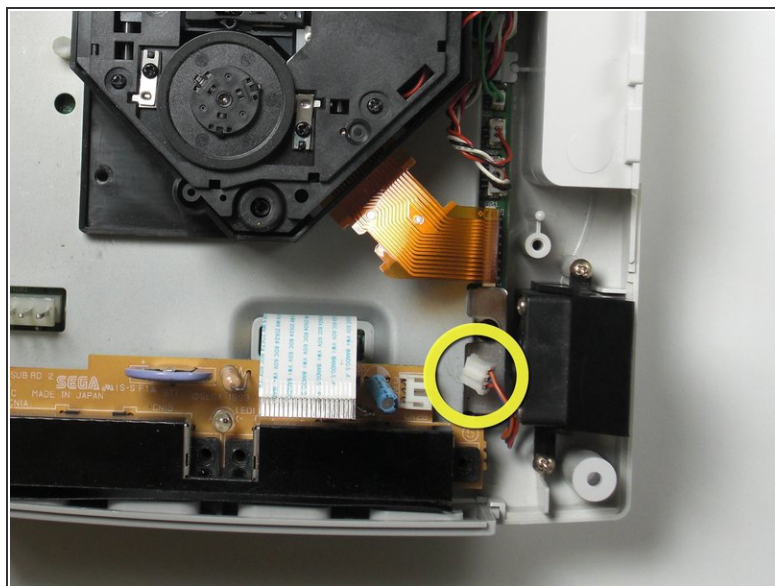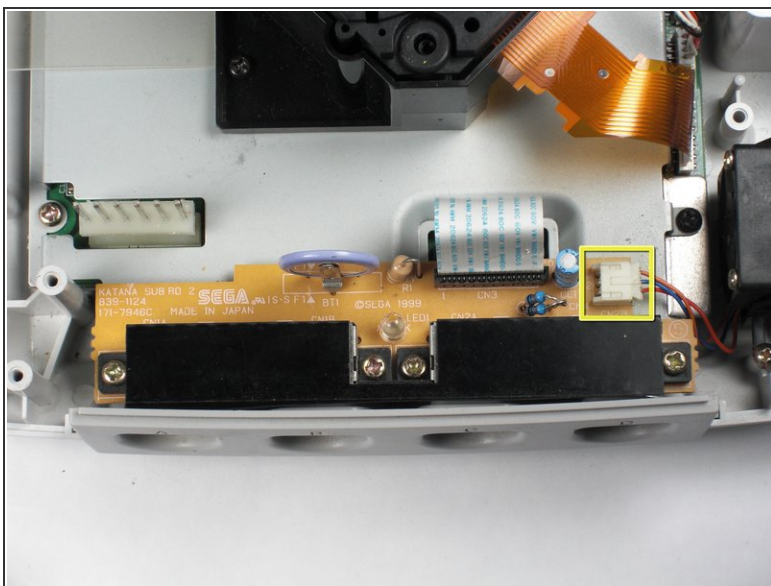
Step 10
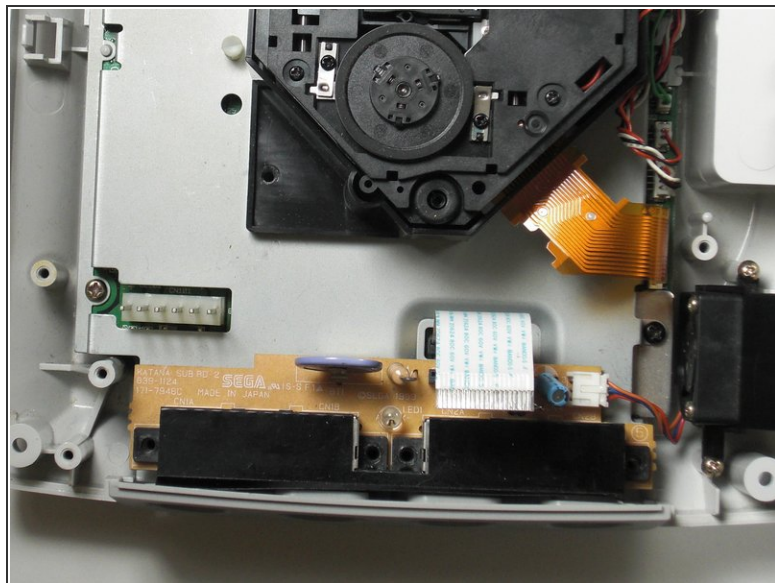
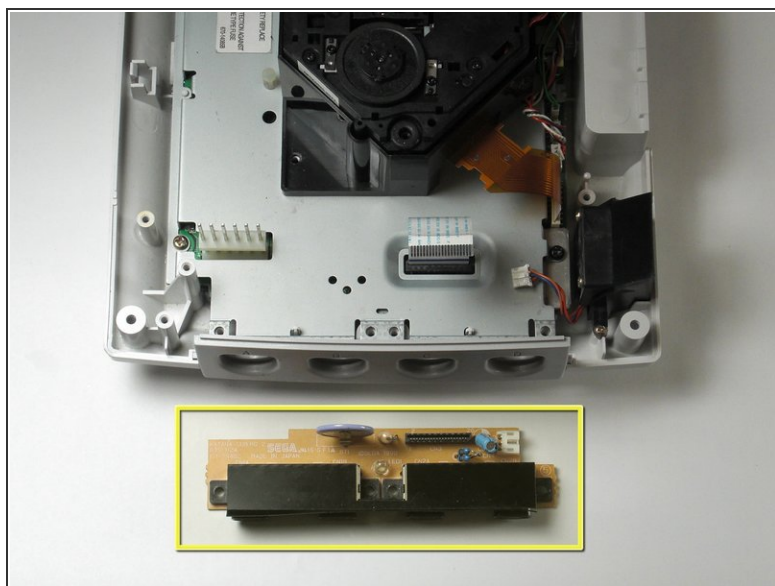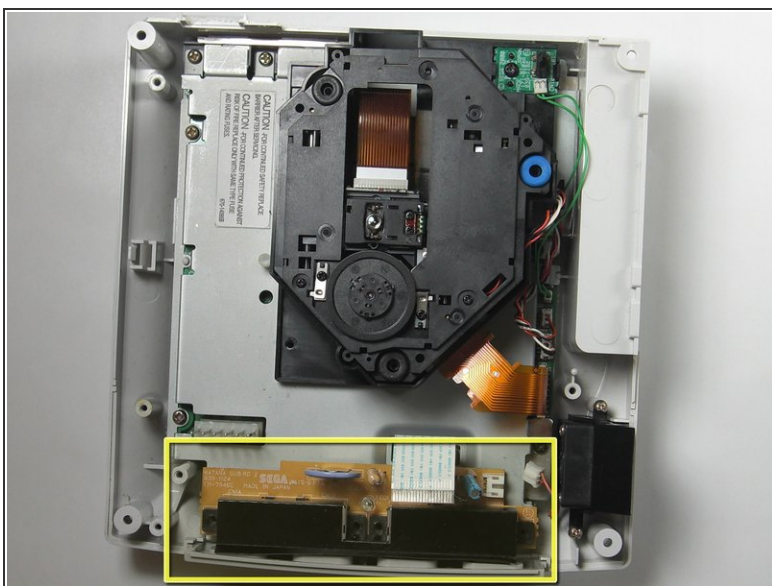- **Remove the four 14mm Philips #02 screws** located on the controller board.

Step 11

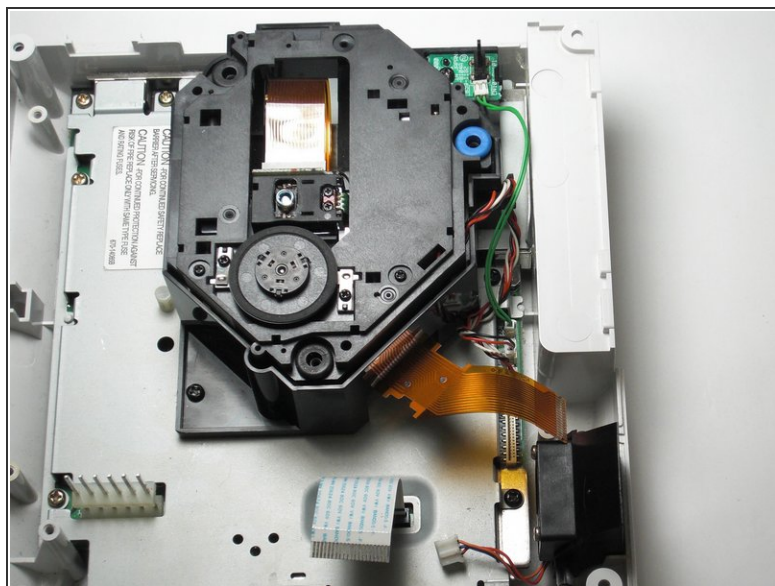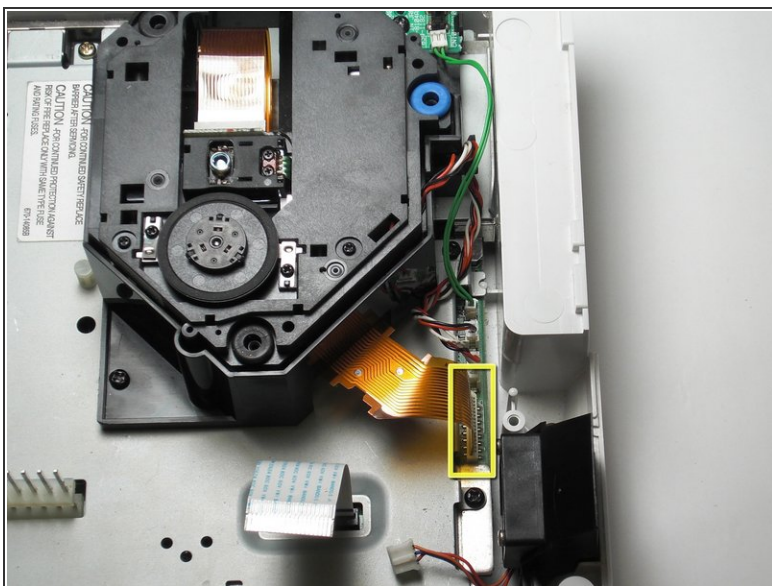- **Disconnect the white fan header** from the controller port.
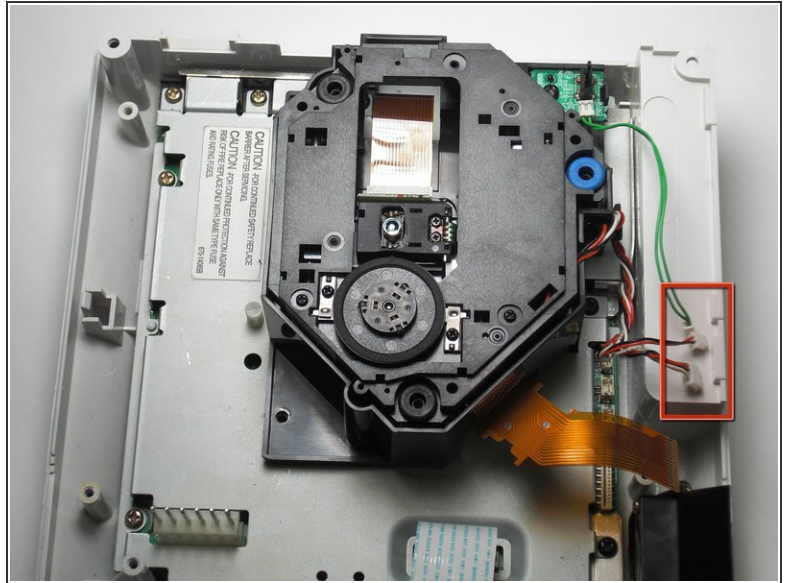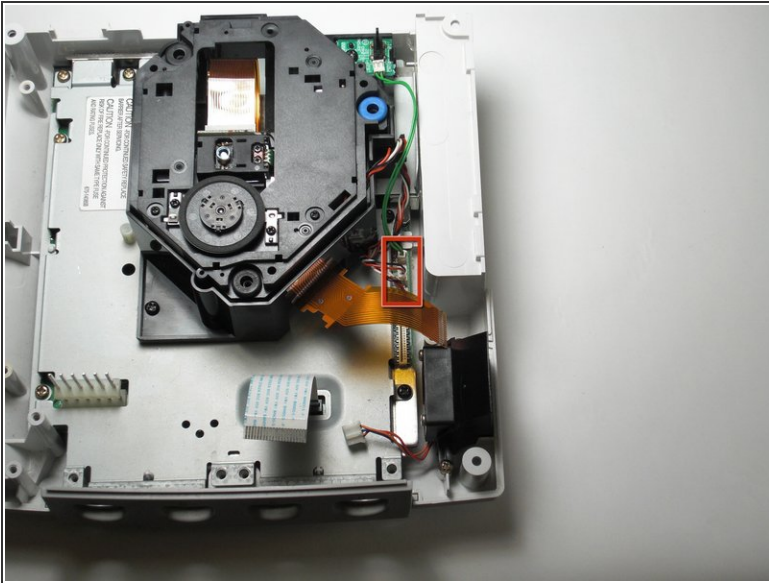
Step 12

- **Remove the controller board** by lifting it up from the controller port.

Step 13 — GD-ROM

- **Detach the orange cable** by giving it a gentle pull while wiggling the cable back and forth until it loosens from the logic board.
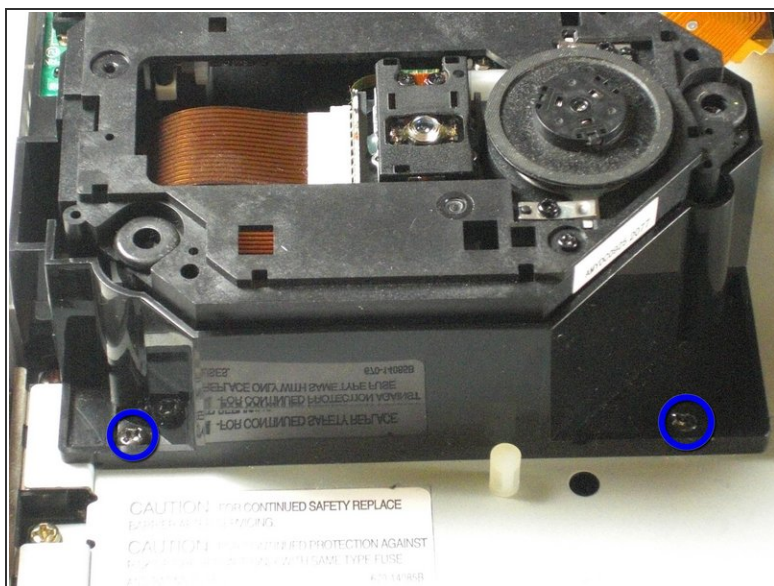
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Step 14

- ● **Detach the cables** by gently pulling the three GD-ROM cables to remove them from the logic board.
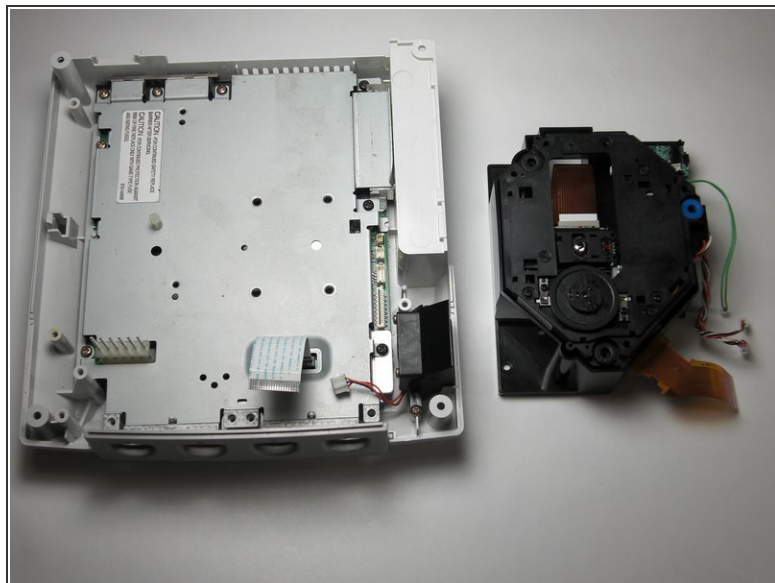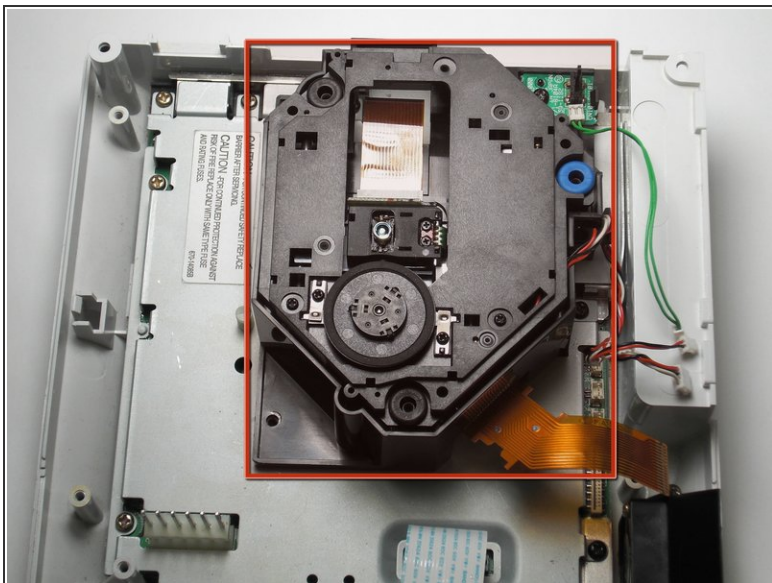
Step 15

- **Remove the two black 12mm Philips #02 screws** located on the left side of the GD-ROM bracket.

- (i) The console is rotated 90 degrees counter-clockwise in the first photo. The second photo depicts the normal position.

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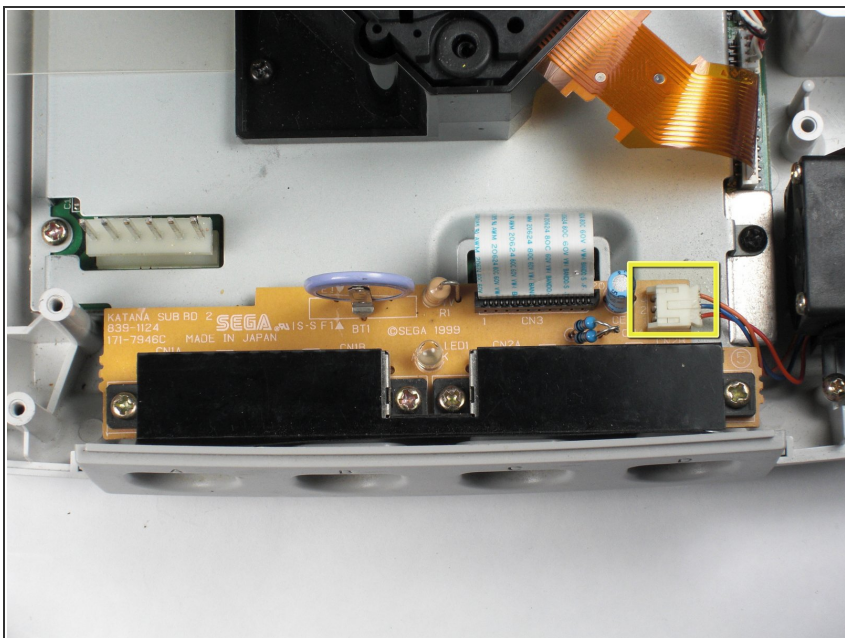
Step 16

⚠️ When lifting the GD-ROM, be careful that the top half of the casing does not detached from its base.

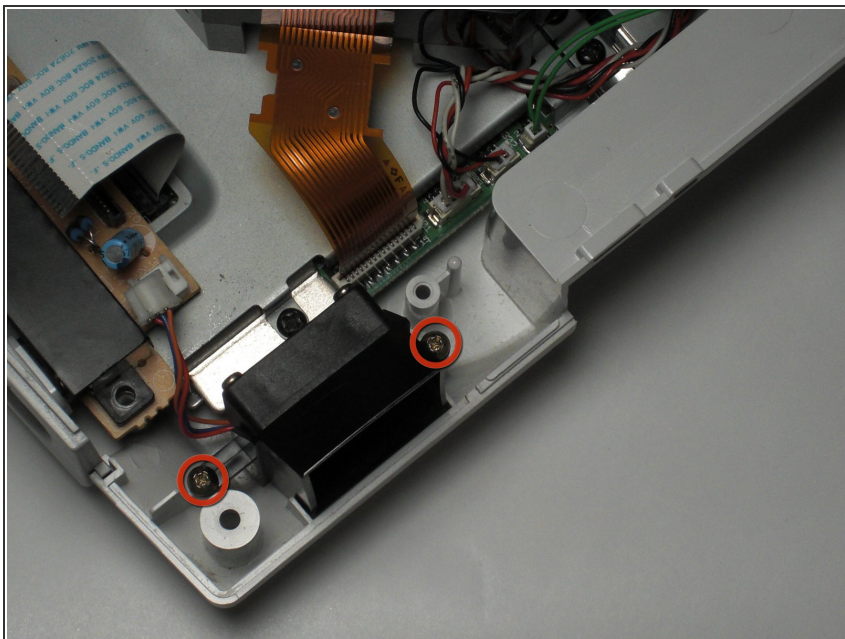● **Remove the GD-ROM** by gently lifting it from its base.

Step 17 — Fan

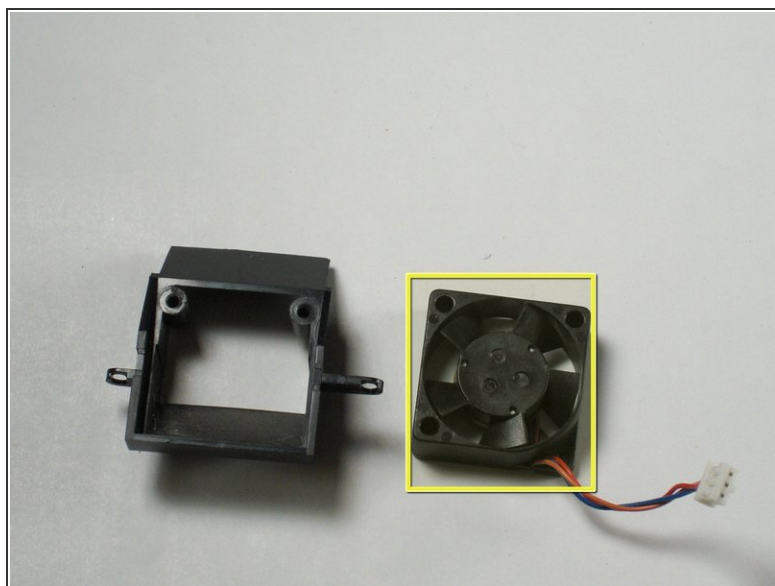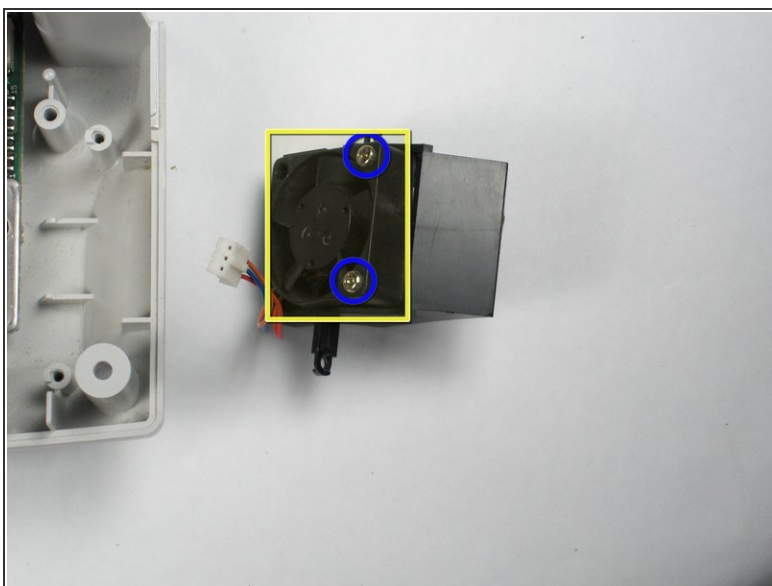● **Remove the white fan header** by gently pulling it away from from the controller port.

ⓘ The white fan header may already be detached if you have completed the Controller Port Disassembly Guide.

Step 18

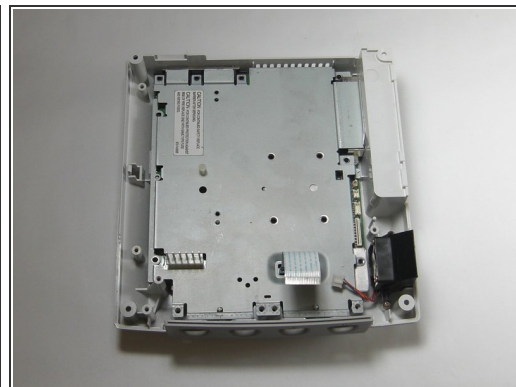- ● **Remove the two 8.5mm Philips #00 screws** from the fan bracket.
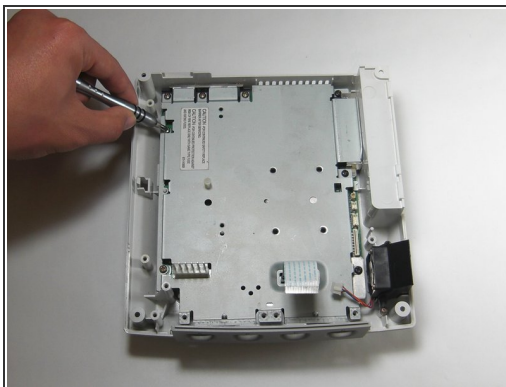
Step 19

- ● **Remove the two 17.5mm Philips #00 screws** from the fan bracket.
- ● **Remove the fan** from the bracket.

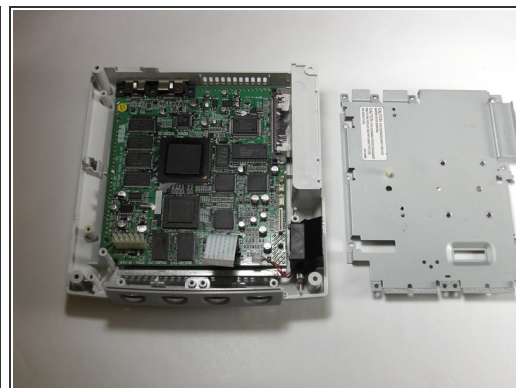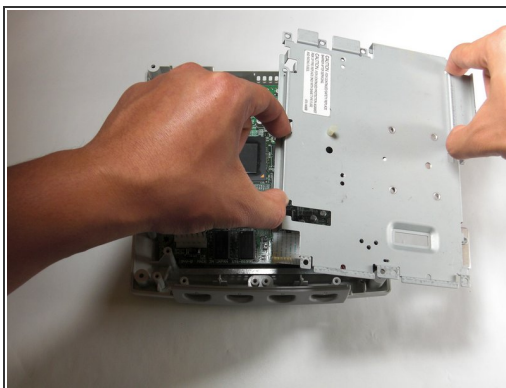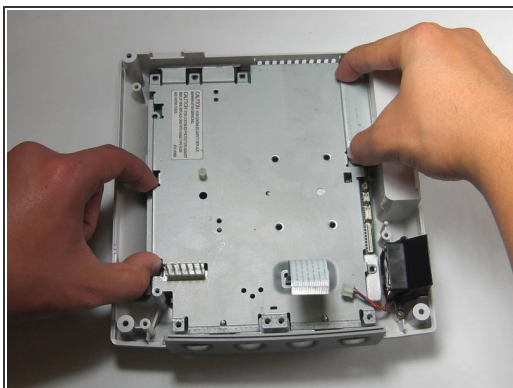This document was generated on 2020-11-25 12:25:41 PM (MST).

Step 20 — Logic Board

- Remove the five 10mm Philips #02 screws from left side of the logic board cover.

- Remove the three black 12mm Philips #02 screws from the right side of the logic board cover.
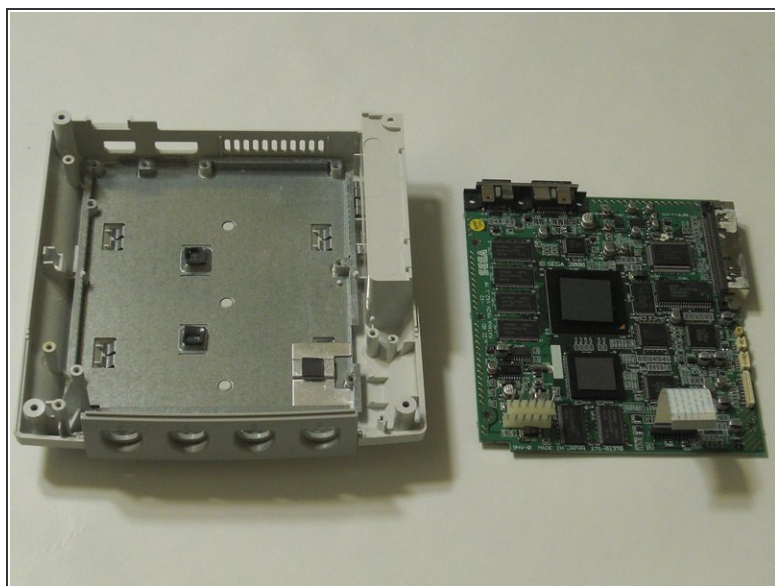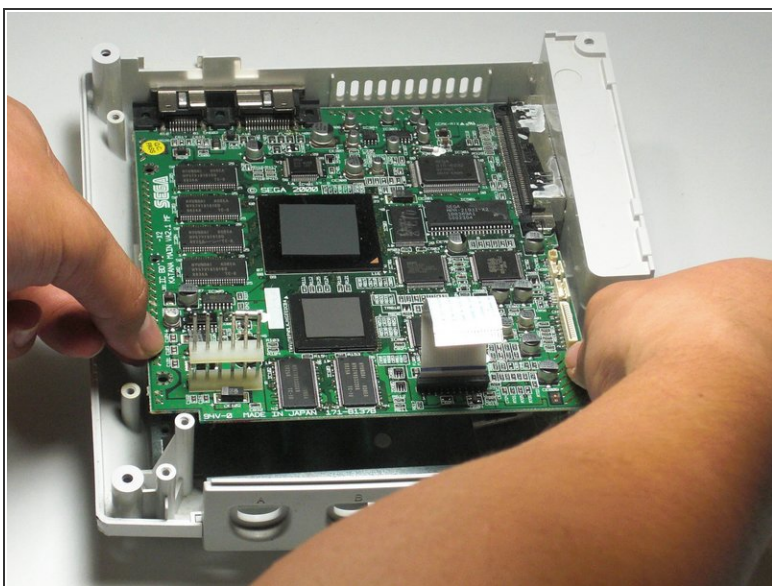
Step 21

- Lift the metal cover from the console.

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Step 22

⚠ Before handing the logic board, you may want to use a grounding strap to protect the device from static charge. If you do not have a grounding strip, you may ground yourself by touching a large metallic object.

● **Remove the logic board** and set the logic board on an anti-static surface.

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

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