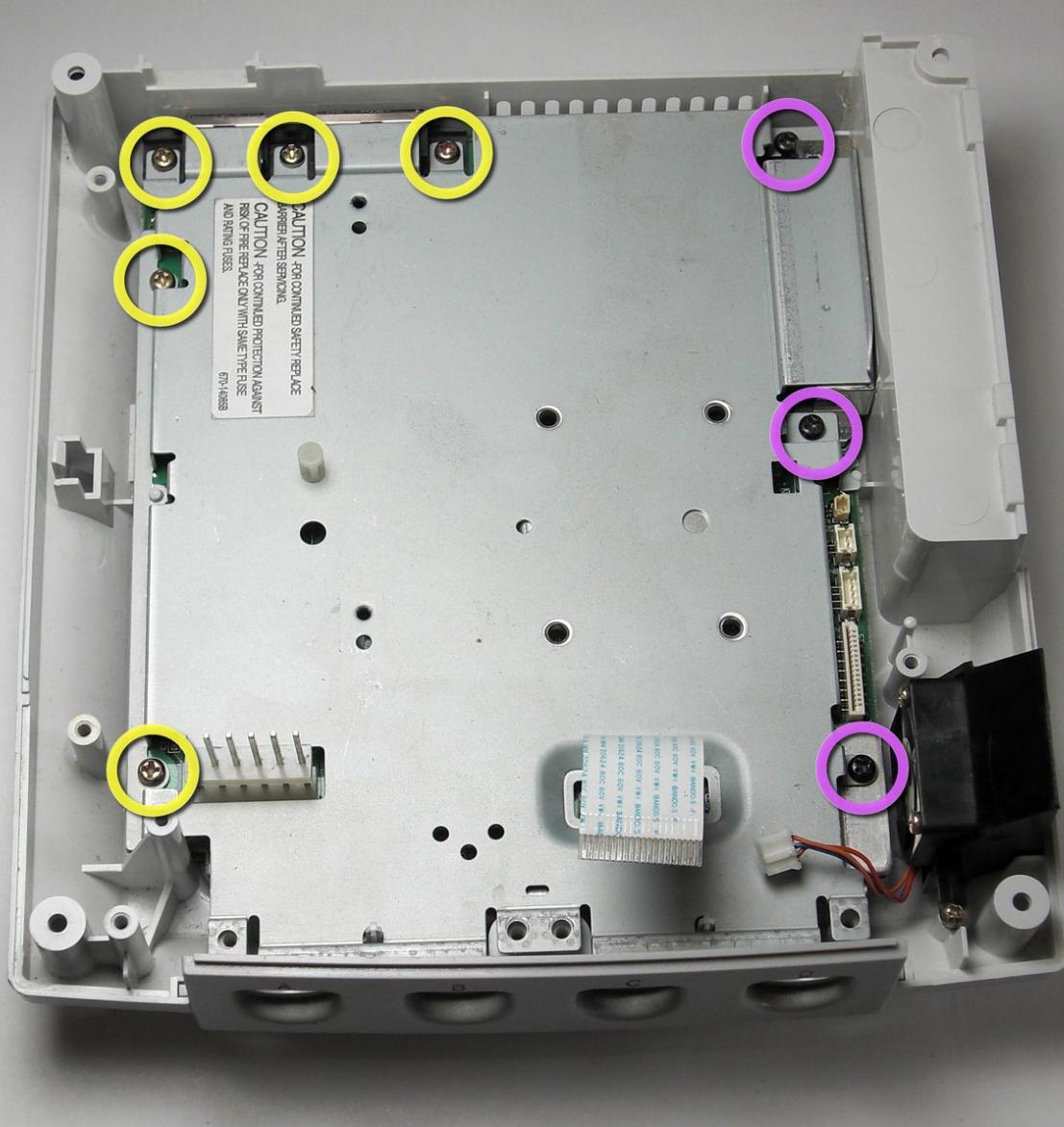




# Sega Dreamcast Logic Board Replacement

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## 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)

## 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.

## Step 3 — Top Cover



- Locate and remove all four black 12mm Phillips #02 screws from the underside of the console.
- Note: Remove the expansion bay to locate the fourth screw*

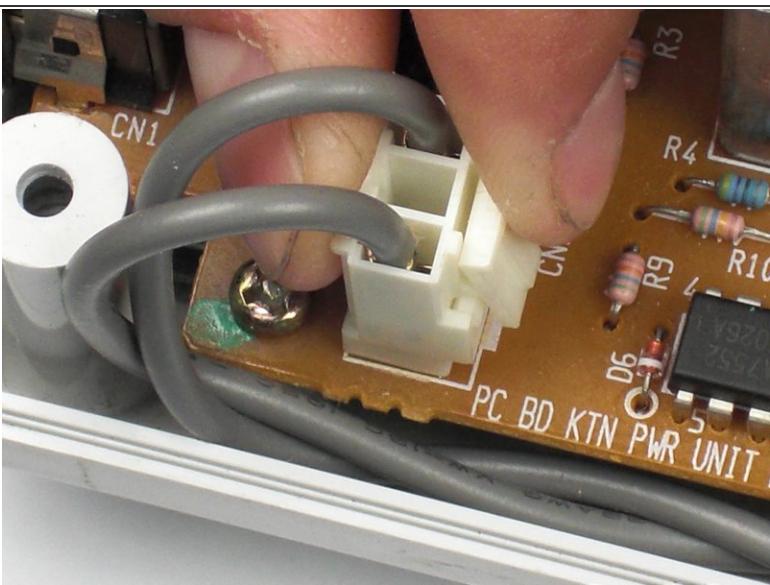
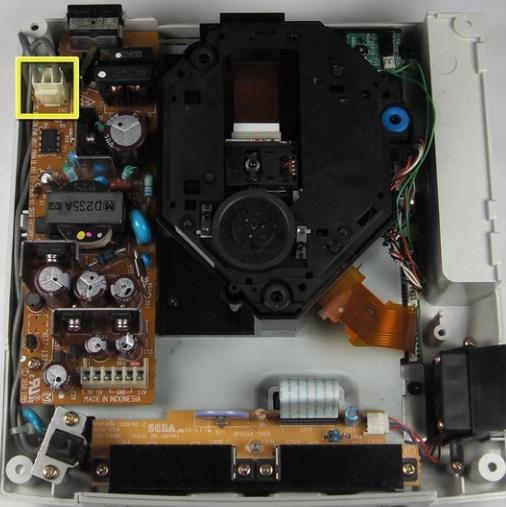
## Step 4



**⚠** 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.

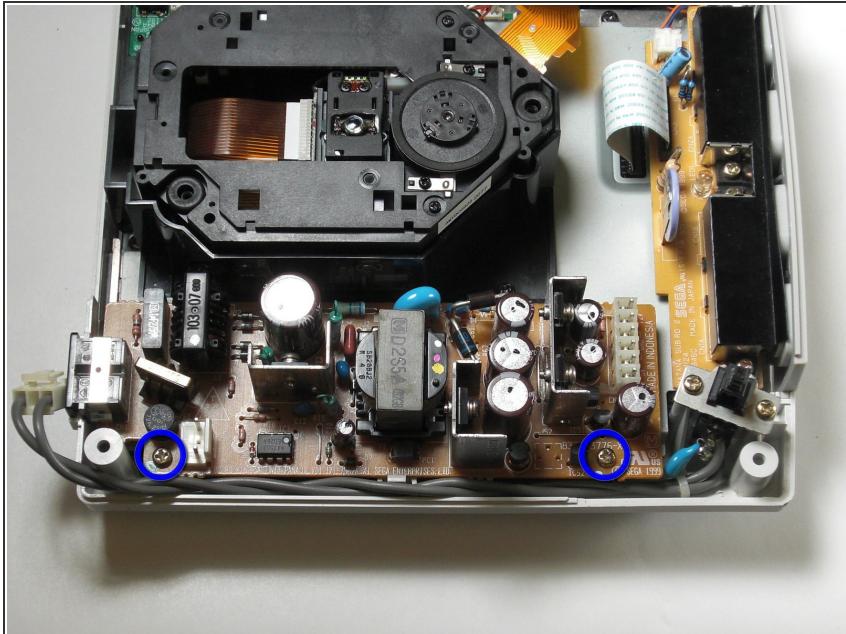
## Step 5 — Power Block (Power Supply)



**⚠ 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.**

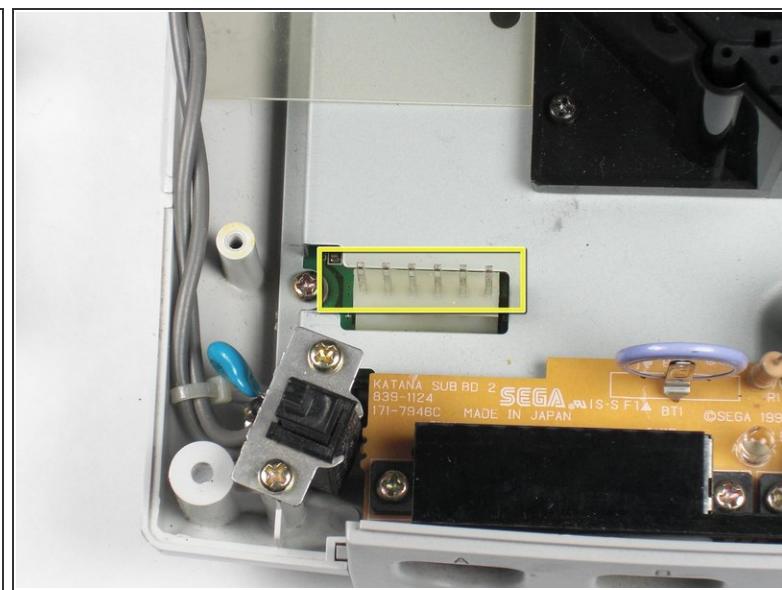
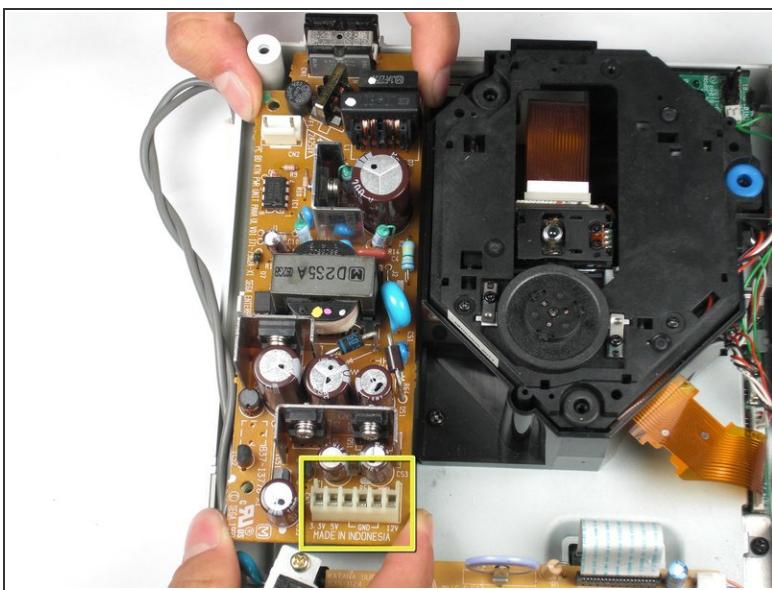
- Remove the white female pin header** by clamping the clip and pulling it up gently from the power board.

## Step 6



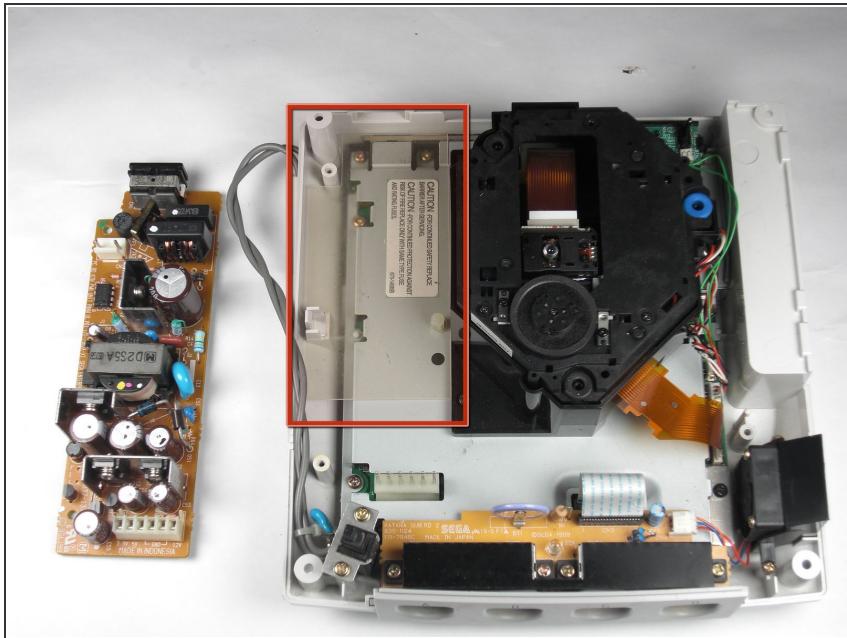
- Remove the two 10mm Philips #02 screws that are fastened to the power block.

## Step 7



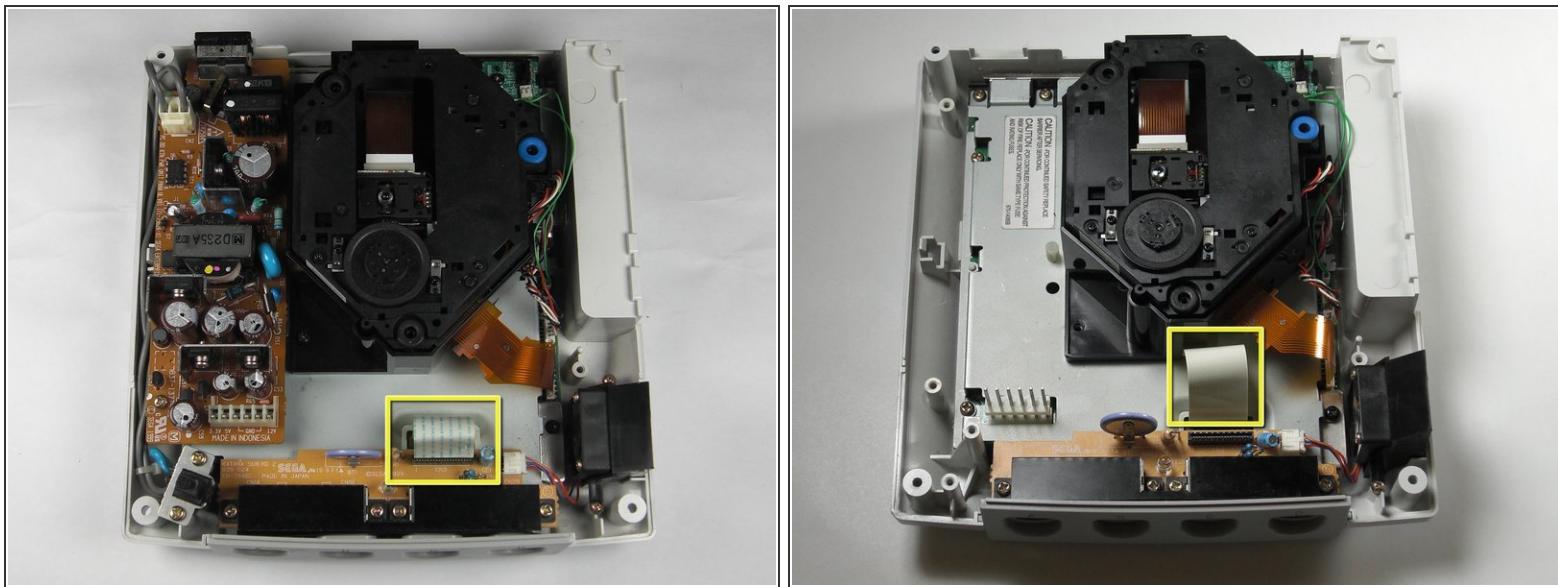
- Do not bend the male pin header between the mounted head when you remove the power supply from the chassis.
- Remove the power board by using both hands to gently lift the power board away from the console.

## Step 8



- Remove the clear plastic film that is tucked between the power supply and the chassis.

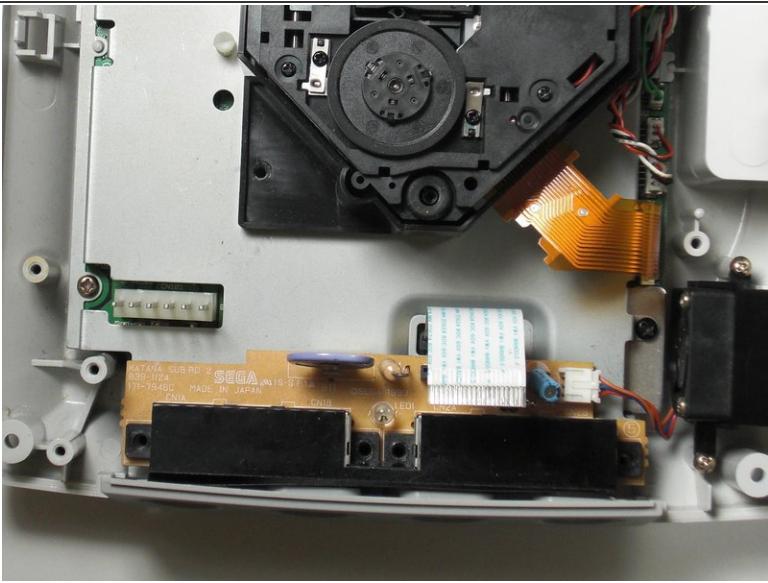
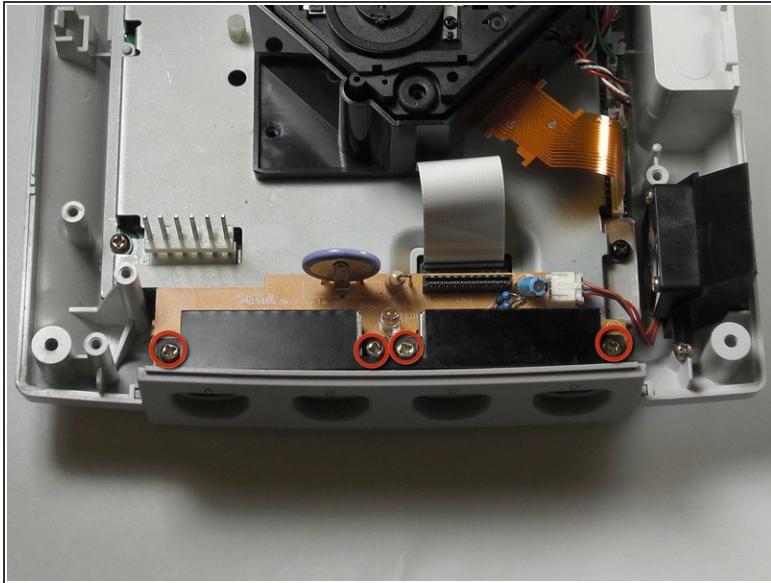
## Step 9 — Controller Port



⚠ Be gentle with the white controller cable as it can be a bit fragile.

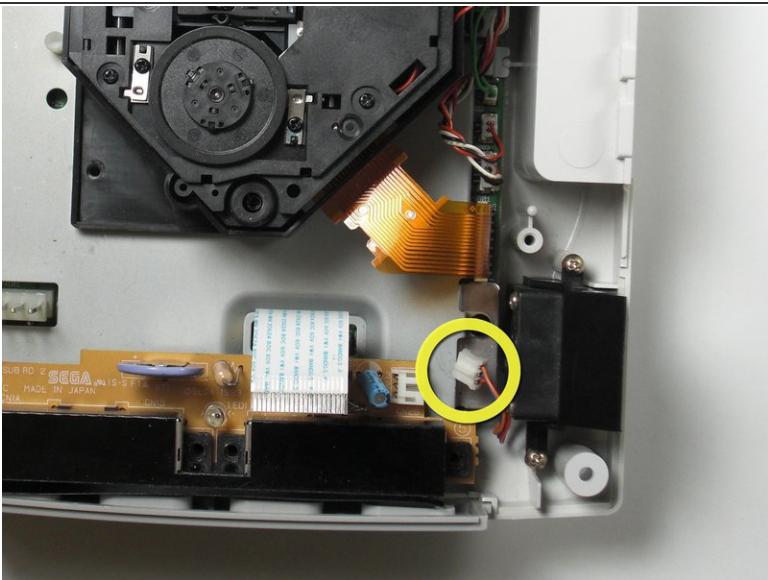
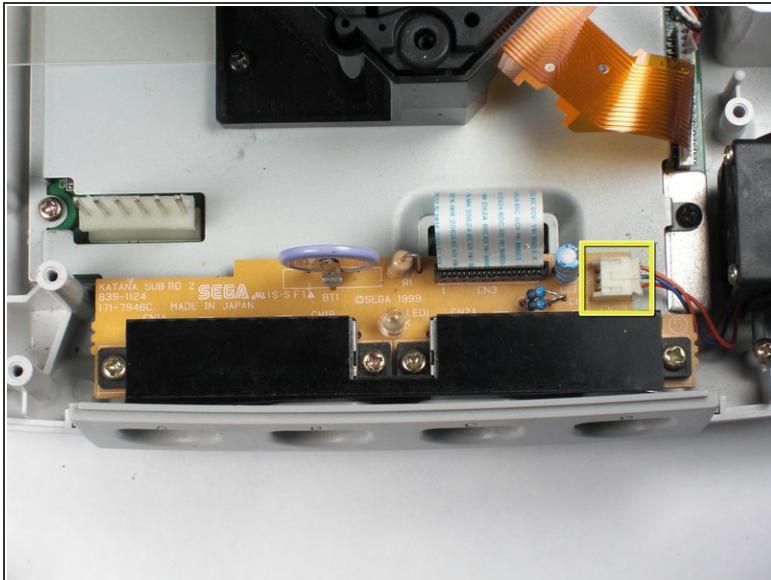
- **Disconnect the white controller cable** by gently pulling the the cable while wiggling it back and forth until it detaches from the controller board.

## Step 10



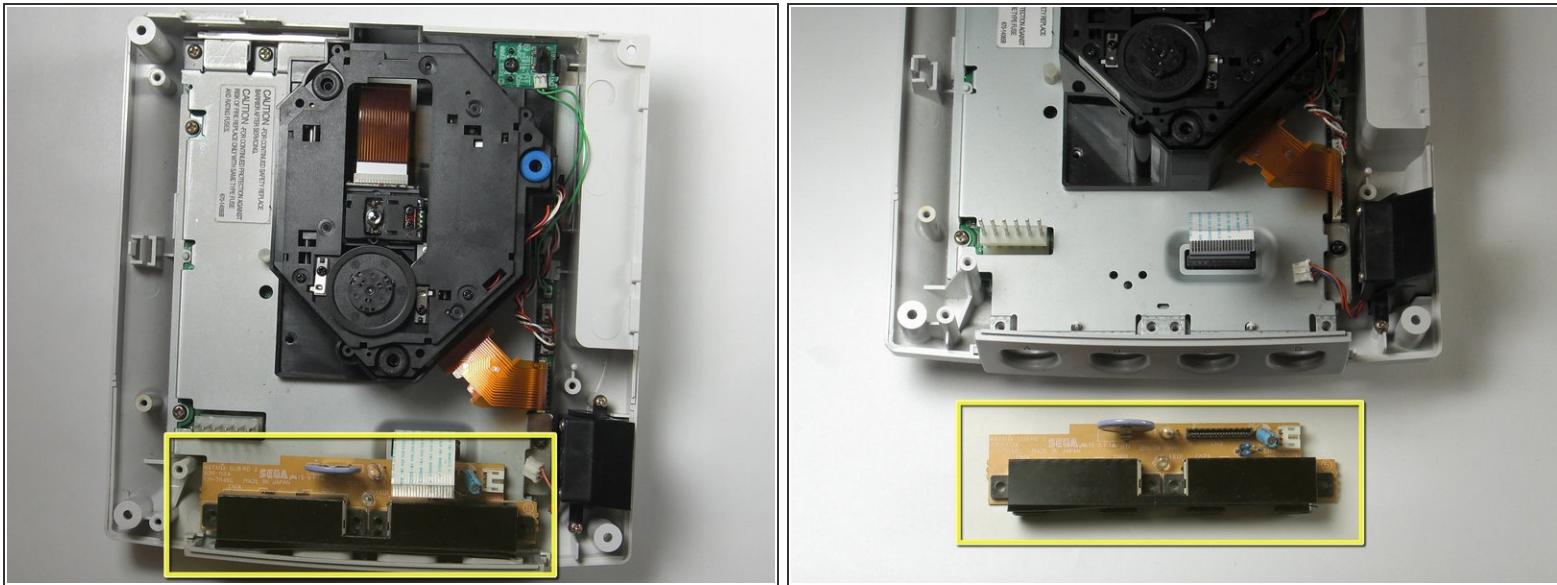
- Remove the four 14mm Philips #02 screws located on the controller board.

## Step 11



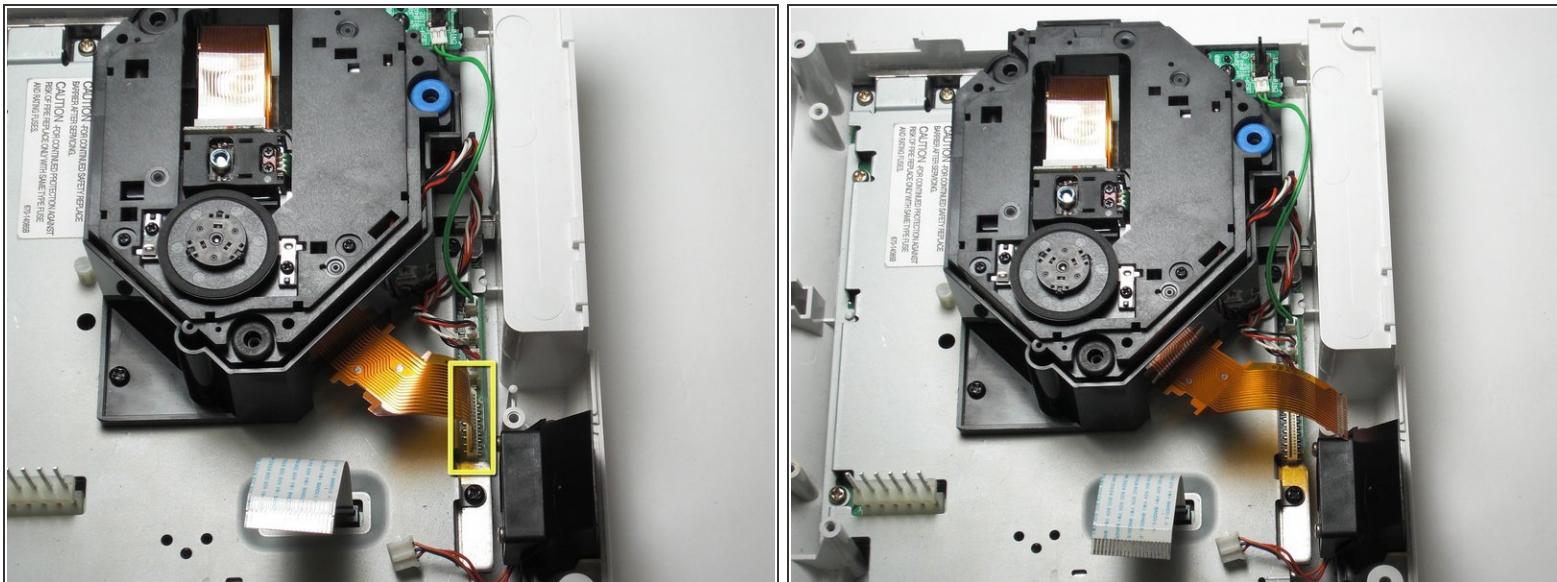
- Disconnect the white fan header from the controller port.

## Step 12



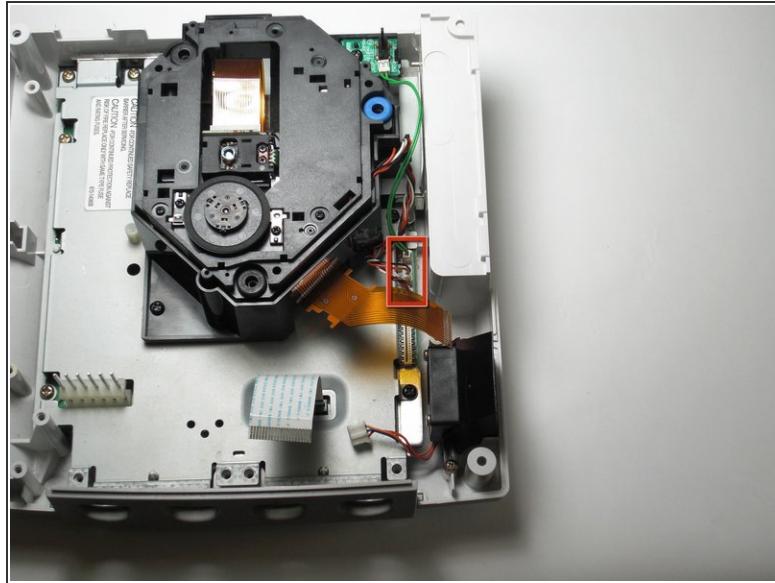
- Remove the controller board by lifting it up from the controller port.

## Step 13 — GD-ROM



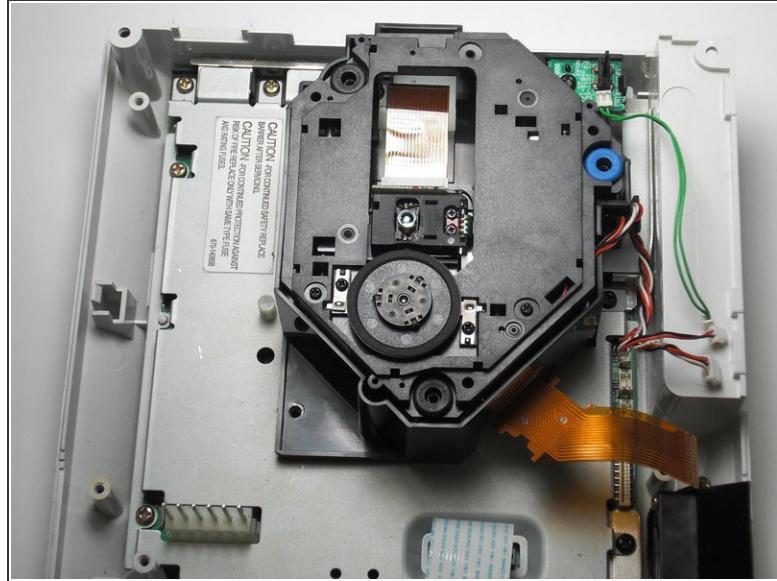
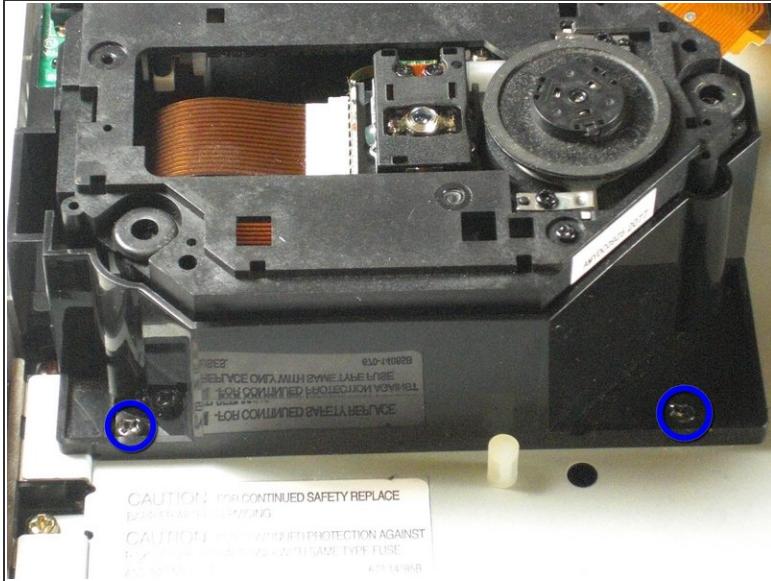
- Detach the orange cable by giving it a gentle pull while wiggling the cable back and forth until it loosens from the logic board.

## Step 14



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

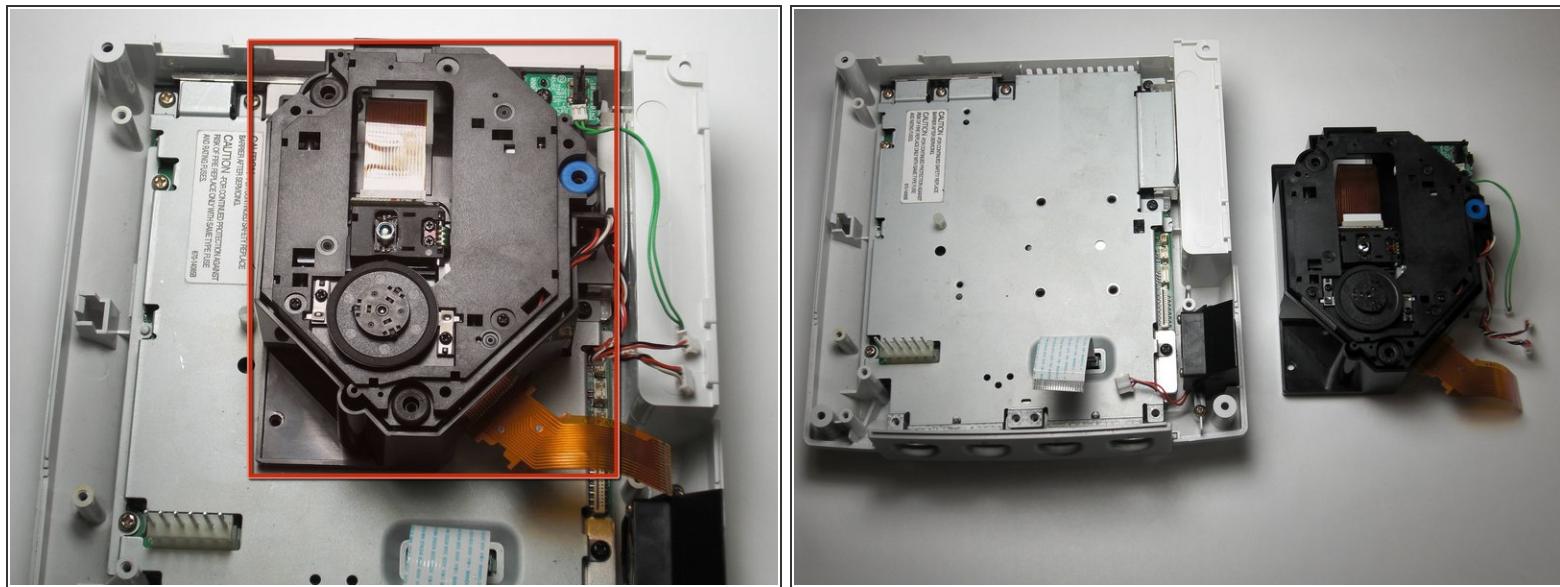
## Step 15



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

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

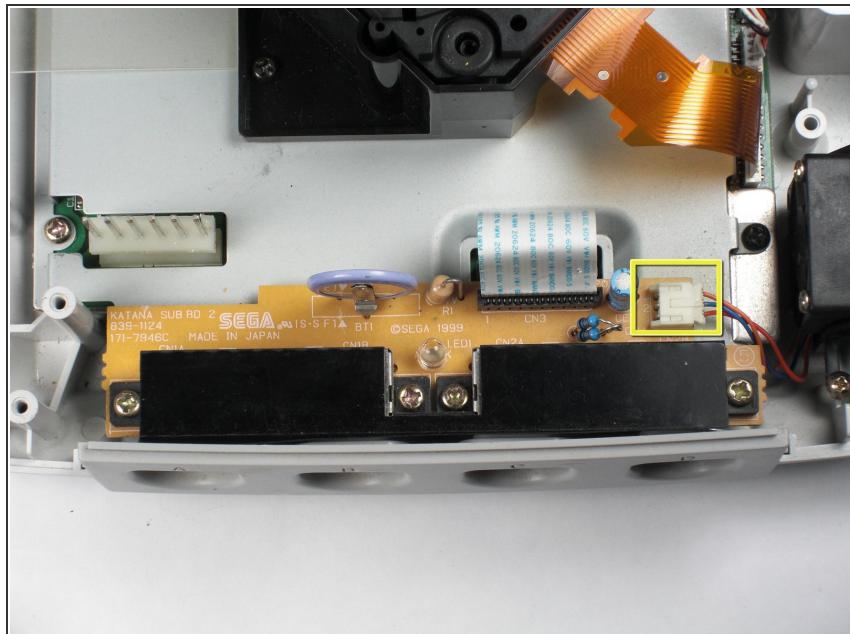
## Step 16



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

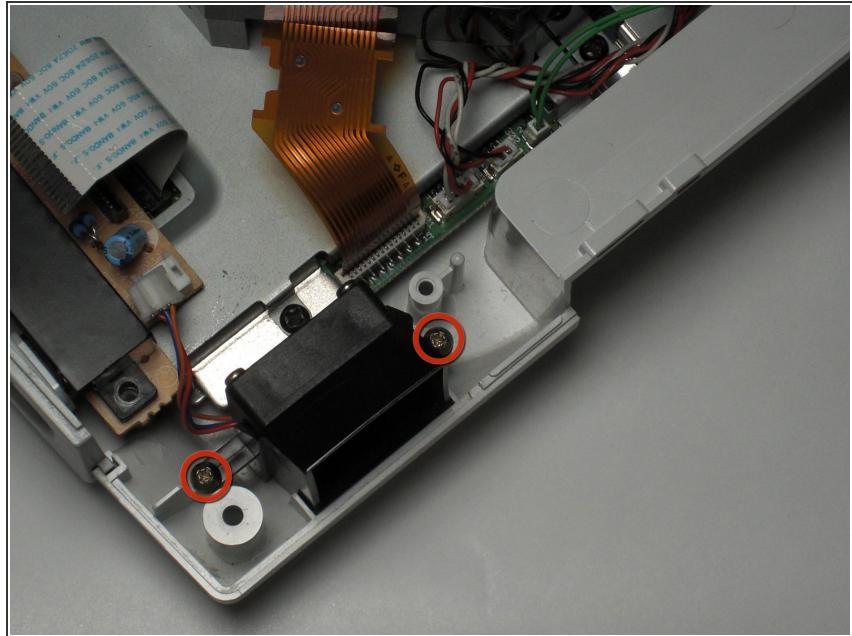
- **Remove the GD-ROM** by gently lifting it from its base.

## Step 17 — Fan



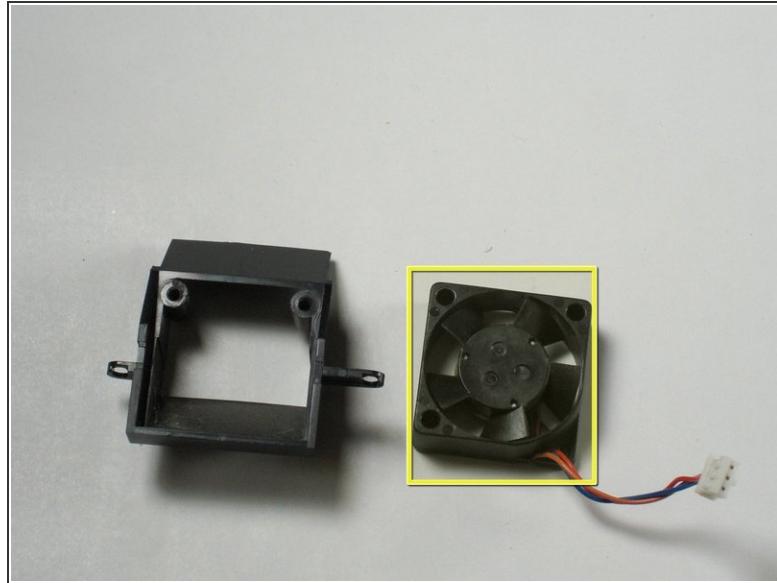
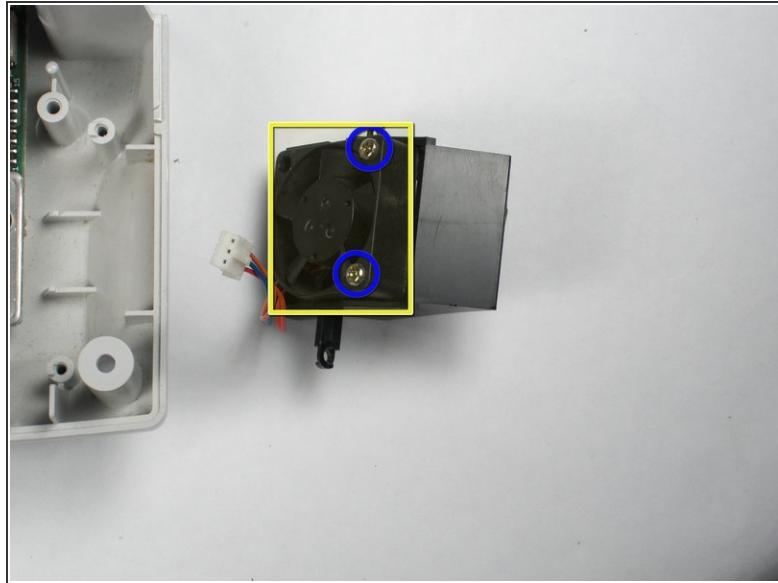
- **Remove the white fan header** by gently pulling it away from from the controller port.
- **i** The white fan header may already be detached if you have completed the Controller Port Disassembly Guide.

## Step 18



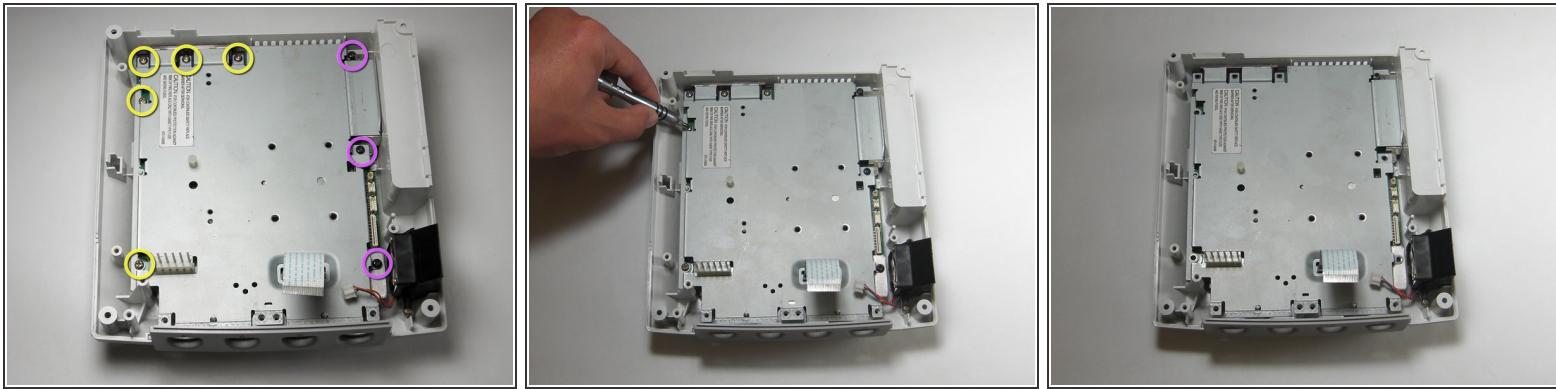
- Remove the two 8.5mm Philips #00 screws from the fan bracket.

## Step 19



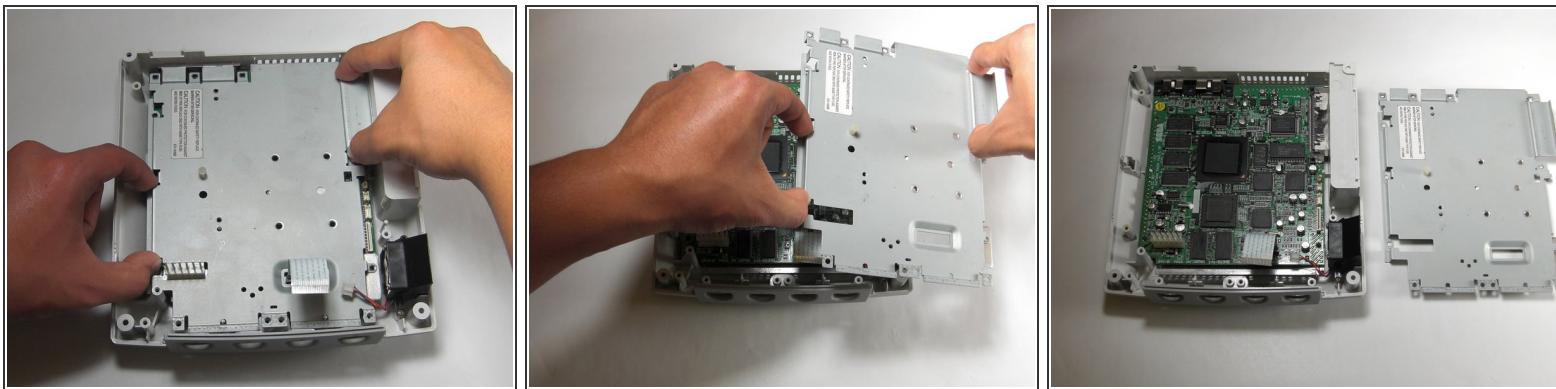
- Remove the two 17.5mm Philips #00 screws from the fan bracket.
- Remove the fan from the bracket.

## Step 20 — Logic Board



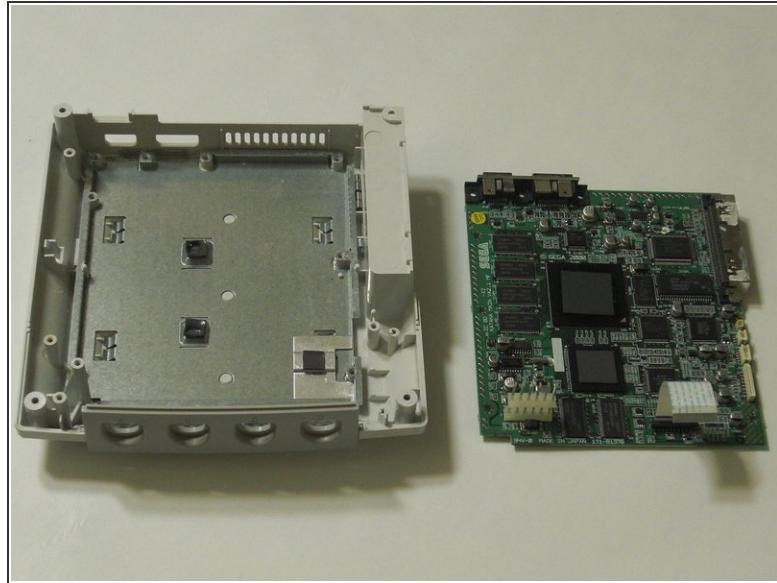
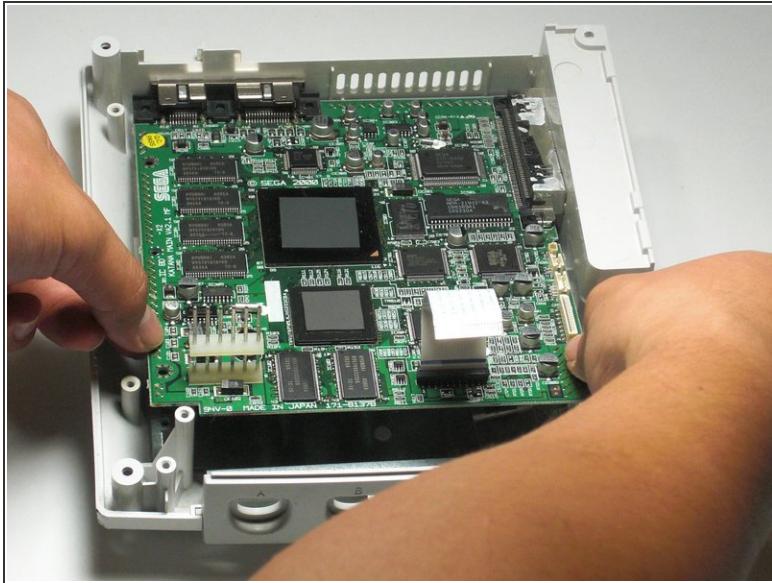
- Remove the five 10mm Philips #02 screws from left side of the logic board cover.
- Remove the three black 12mm Philips #02 screws from the right side of the logic board cover.

## Step 21



- Lift the metal cover from the console.

## 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.