



PlayStation 2 Teardown

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INTRODUCTION

First, I would like to apologize for my poor English, I am from Brazil, but I love this site, especially because I have loved to disassemble electronic things since I was a kid. My mother always freaks out, but I always assemble everything back. Sometimes I even fix some things.

I'm writing this teardown to try to win the PSP GO or the PS3 slim, so please look with care, it was made with care. (editor's note: WOOOOW This article is outdated. I hope you won your PSP GO or PS3 Slim.

In this teardown, I will show how to disassemble a Sony Playstation 2. I was already planning to disassemble it to clean it and fix a small issue.

Later in the repair guide, I will show how to fix a small problem I had. I sent it to a technician because the rumble effect was no longer working. He says that there was a problem in the motherboard and he needs to change it entirely, but the model is a SCPH 39001. It's an old model. In fact, it was one of the first in the market. He says that the price to fix it was expensive and that it's better to buy a PS2 Slim to replace mine. I remember when I bought my PS2. It cost more than R\$800, almost US\$400. I decided to stay with it anyway, and despite the problem, I even bought an ethernet adapter to continue playing it.

Later, talking with some friends, I found out that there is a fuse that controls the rumble effect and all that I needed to do was change it. I found out that the fuses in the mainboard are very small and fixed in the main board. It's almost impossible to change them. The same friend gave me a tip that I can use a glass fuse and take the internal wire to use in the main board. I decided to try it and it works perfectly.

So, let's start the teardown. Enjoy!

TOOLS:

6-in-1 Screwdriver (1)

Phillips #0 Screwdriver (1)

Tweezers (1)

Small crosshead Screwdriver (1)

Flathead 3/32" or 2.5 mm Screwdriver (1)

Step 1 — PlayStation 2 Teardown



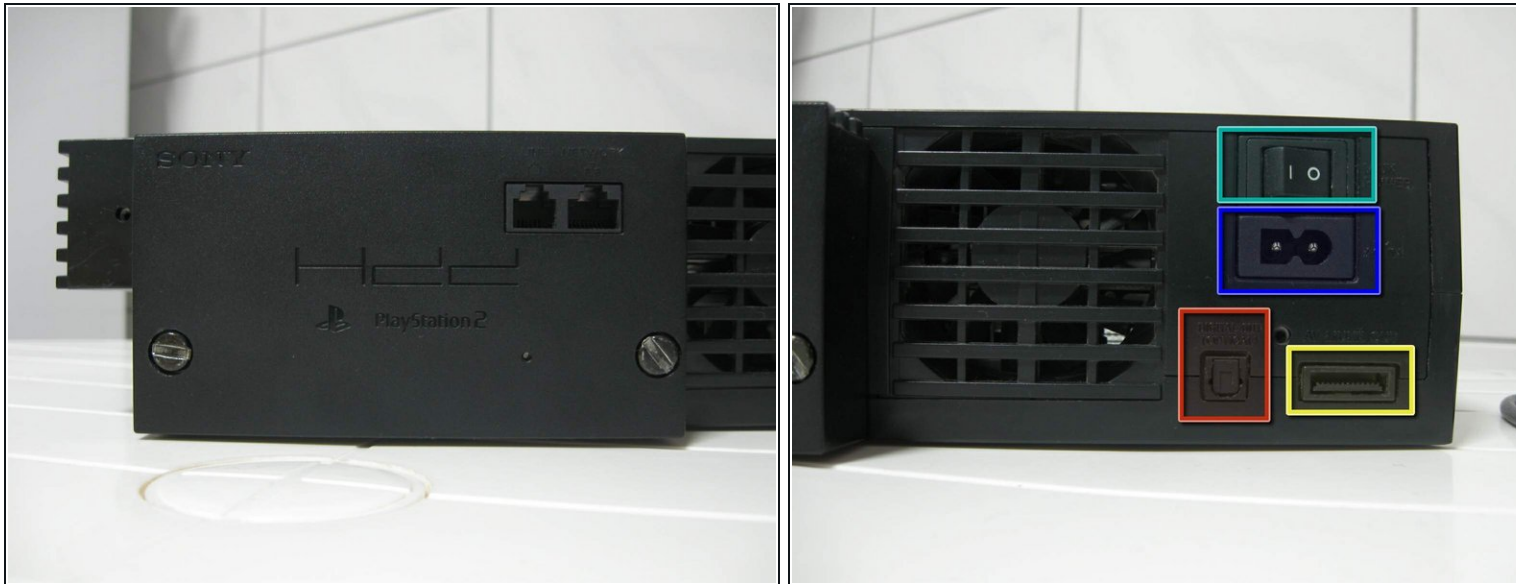
- Here we have the system console fully assembled.
- The USB Ports.
- The S400 ports
- The Optical Drive
- The reset button
- The eject button

Step 2



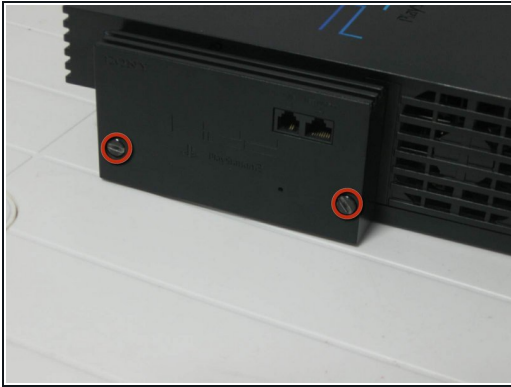
- These are the only tools that we will need. 4 screwdrivers and a tweezer.
- In the next photo we can see the console, the joystick, the wires and a memory card.

Step 3



- In the Back, in this case we have a Ethernet adapter, to play online and to use with a Hdd.
- And the cooler,
- The power switch
- The AC in.
- The Av out
- And the digital output (optical)

Step 4



- Lets start the teardown. At first we use a Flathead screwdriver to remove the ethernet adapter.
- Remove these 2 screws with a Flathead screwdriver.
- And is quite simple to pull.

Step 5



- This is the expansion bay, where the hard drive goes.

Step 6



- Turn the console upside down.
- Using a small Flathead screwdriver, remove the screw protections. In this model, we have 8 of them.

Step 7



- Under the protection, surprise! a screw!
- Remove all eight (8) screws with your Philips "0" screwdriver.
- Yes, hard work!

Step 8



- Put the console in the normal horizontal position, and pull the top cover from back to front.

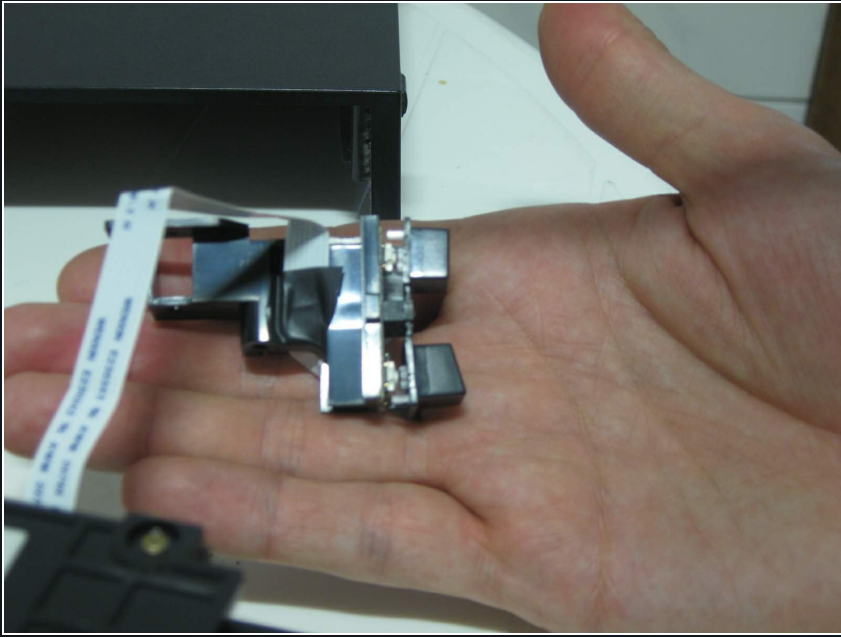
Step 9



⚠ This model has a flat cable to the reset and eject button. Take extreme caution to not destroy it.

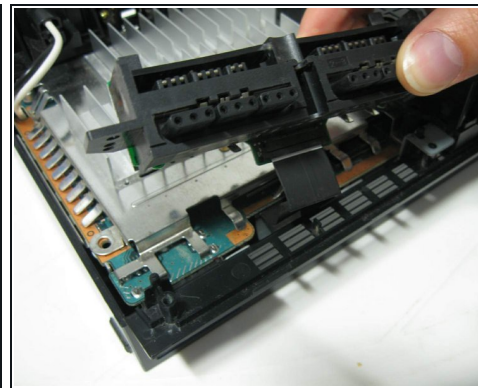
- Remove the button structure just pulling with a small Flathead screwdriver.

Step 10



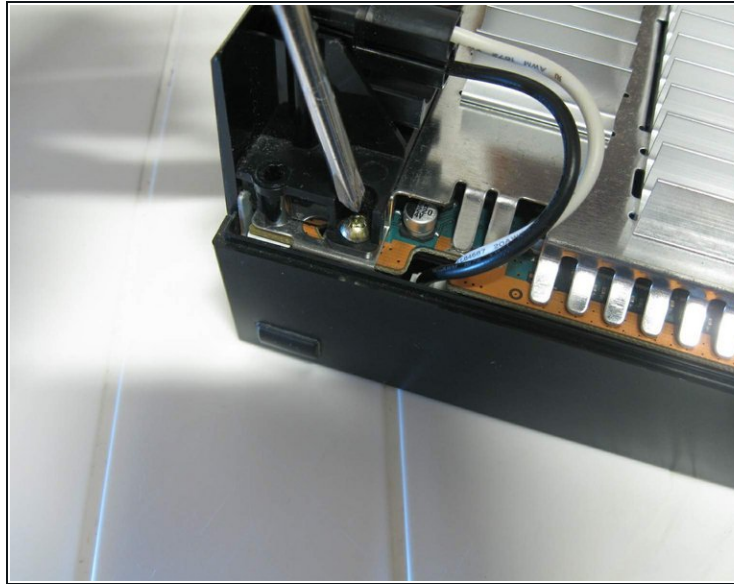
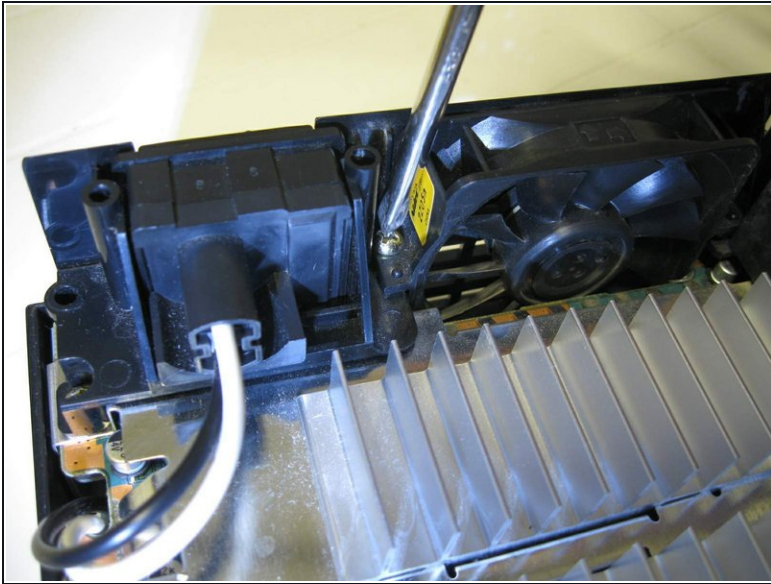
- The button structure comes out of the case. It has some tape to prevent a new destruction. Yes, I already destroyed this flat cable.

Step 11



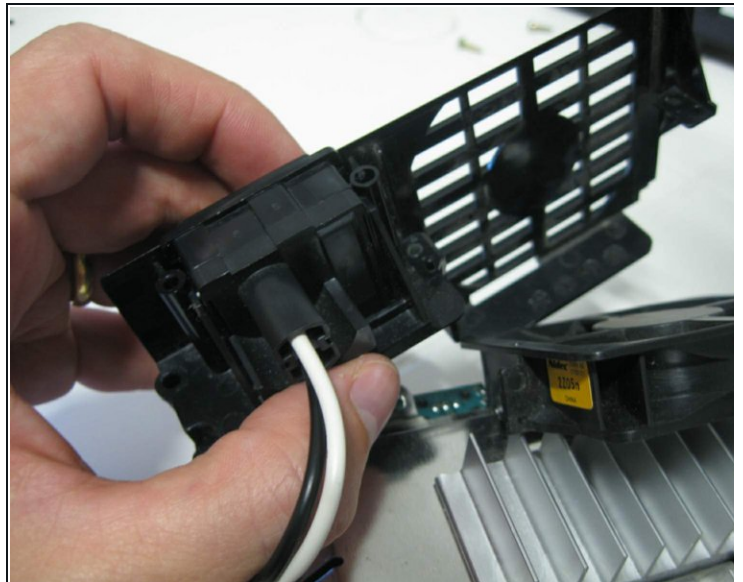
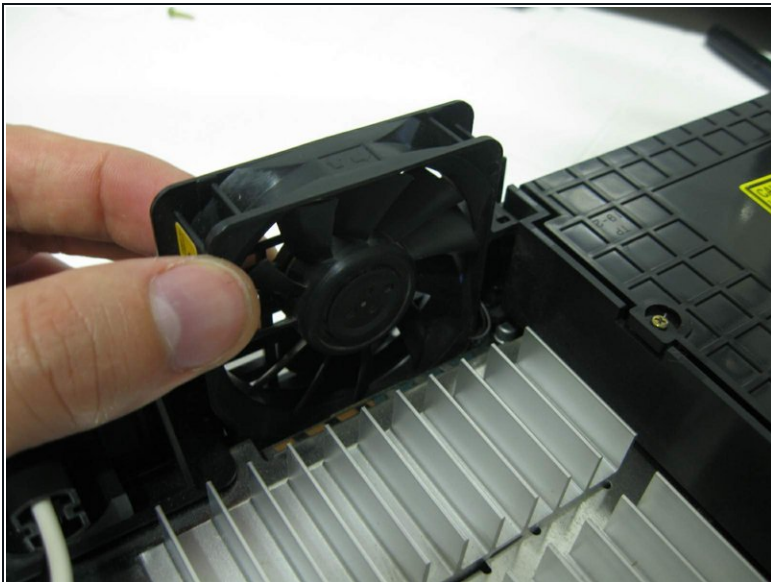
- Remove the two screws with a Philips "0" screwdriver to detach the controller port.

Step 12



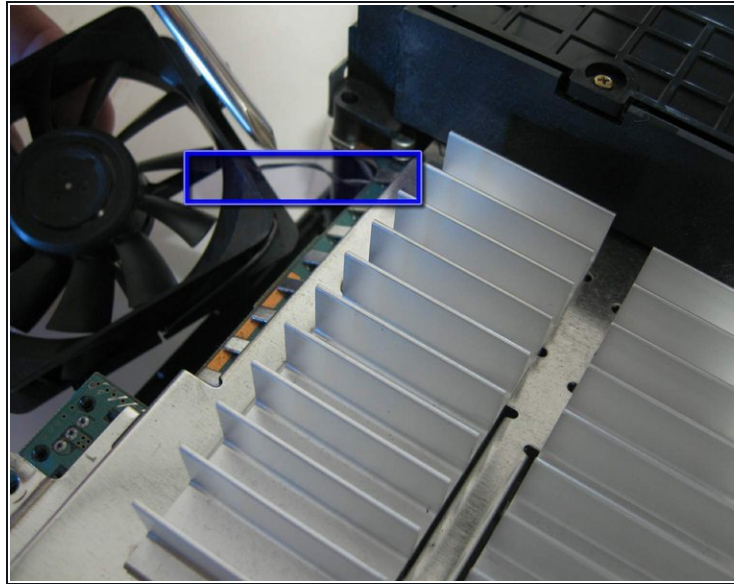
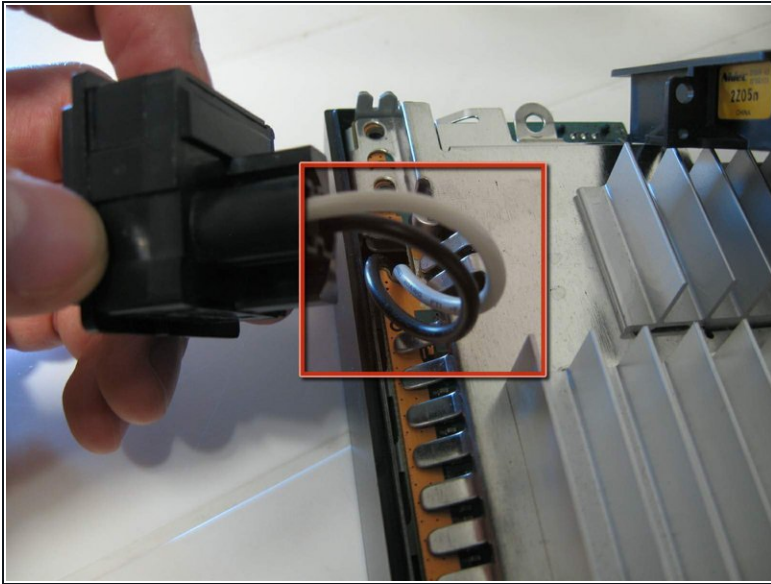
- Here we remove the screws from the cooler and the main power switch

Step 13



- Pull the fan up carefully so you don't break the wire.
- Pull up the fan mount.

Step 14



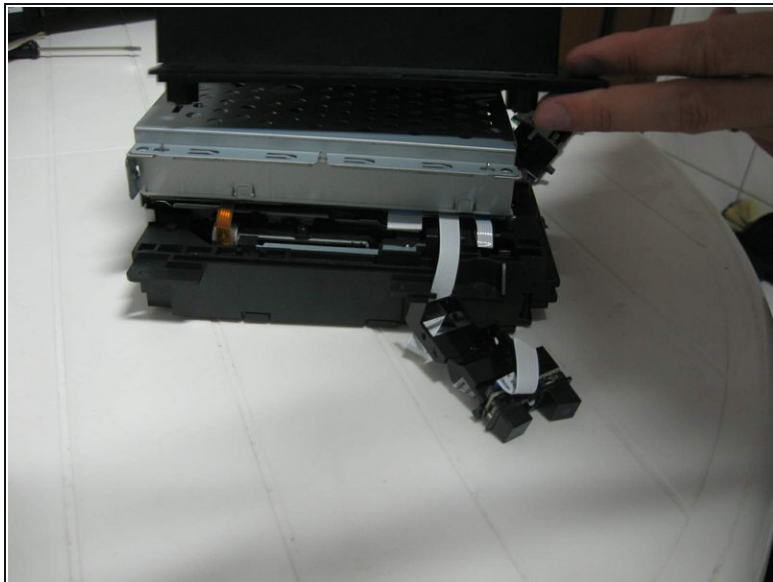
- The power cable go to inside the case. Is better let to remove in a further step.
- The fan wire also go to inside the case. Take extreme care to not destroy it.

Step 15



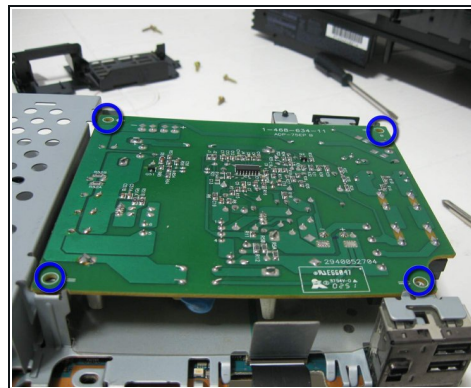
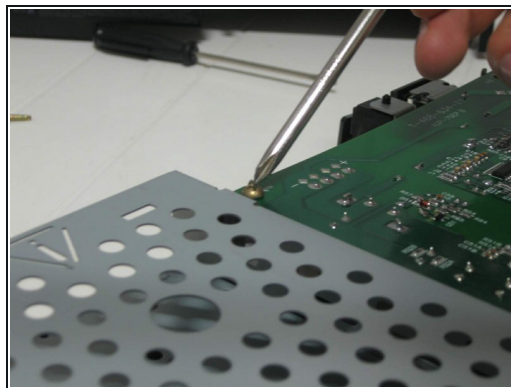
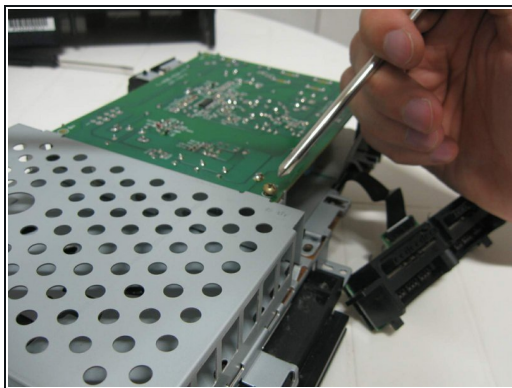
⚠ Lets turn the console upside down again, with caution because the pieces are locked, and just in the next step we can remove them.

Step 16



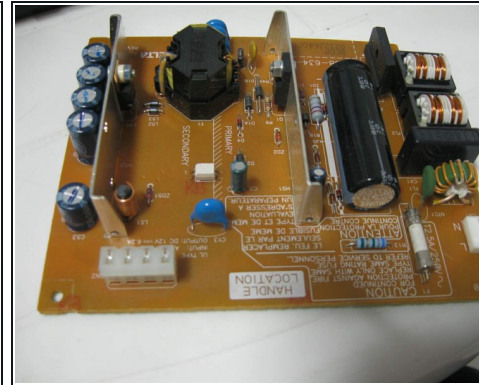
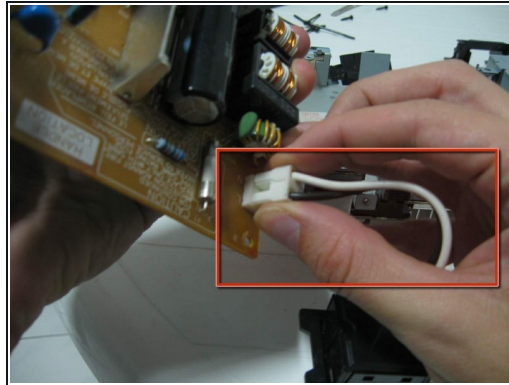
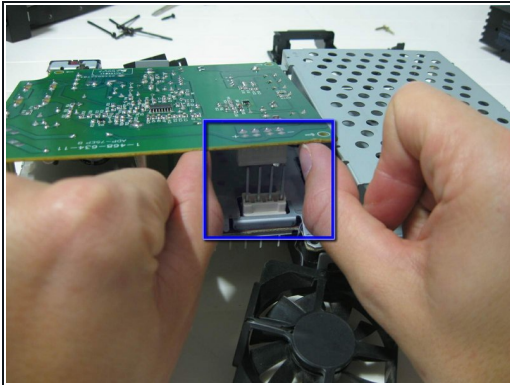
- Lets remove the bottom case.

Step 17



- This is the power source board. remove the 4 screws where I marked in blue.

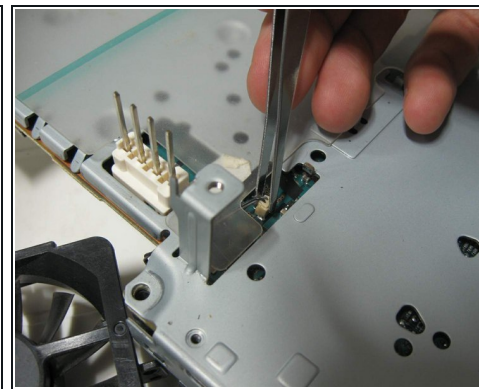
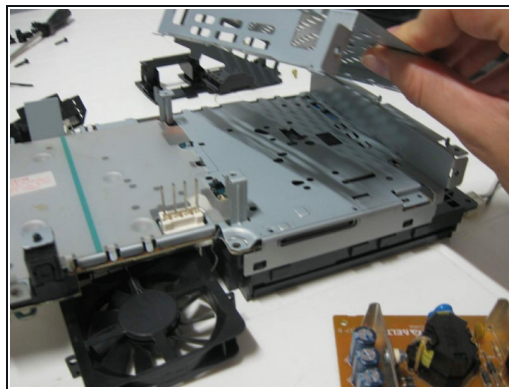
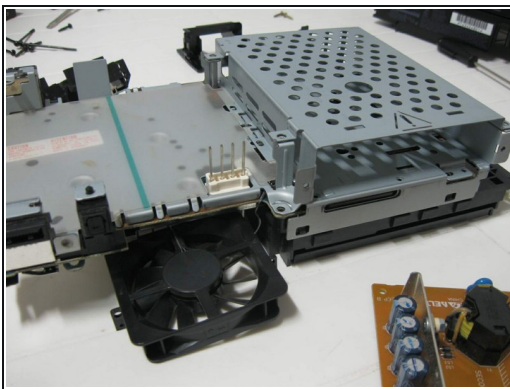
Step 18



- Looking from the back, pull up the board, releasing from the pins of the main board.
- Finally you can remove the power switch.
- And this is the power source board.

⚠ When working on the power supply, be very careful not to touch the capacitor leads or any exposed solder joints on the back of the power supply. Only handle the board by the edges.

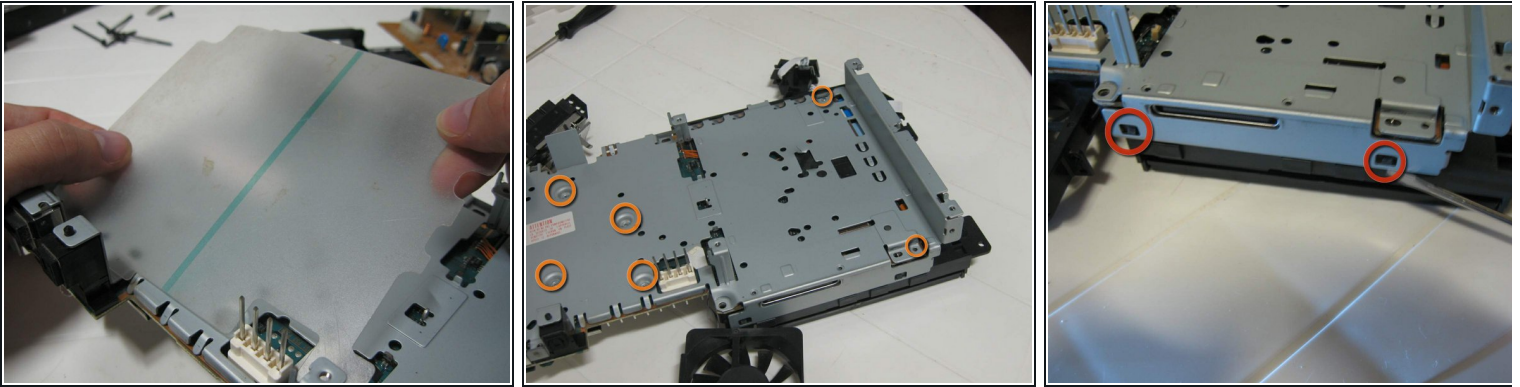
Step 19



- Now we remove the expansion bay grid.

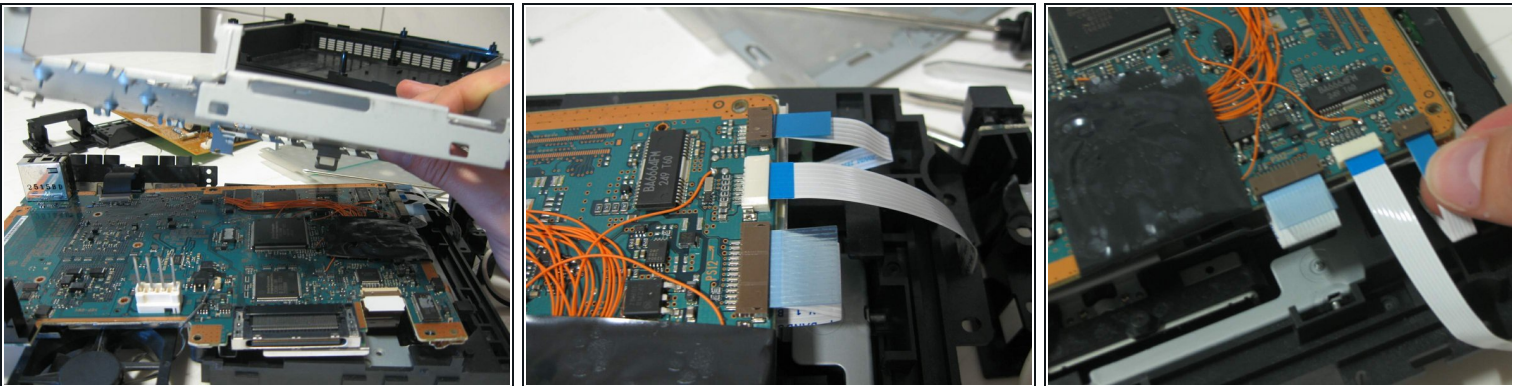
⚠ And now is the time to remove the fan wire from the main board, using a precision tweezer. But.. I can't, it is simply stuck. I already removed this earlier, but now is harder, so I will try later, in the end of the teardown.

Step 20



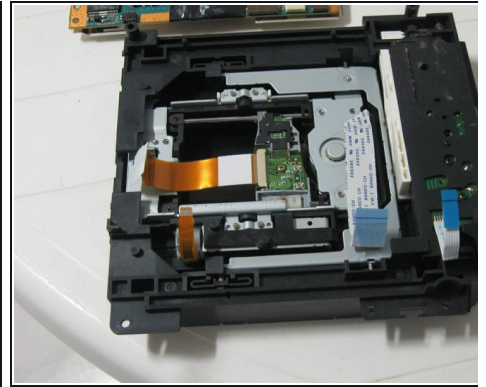
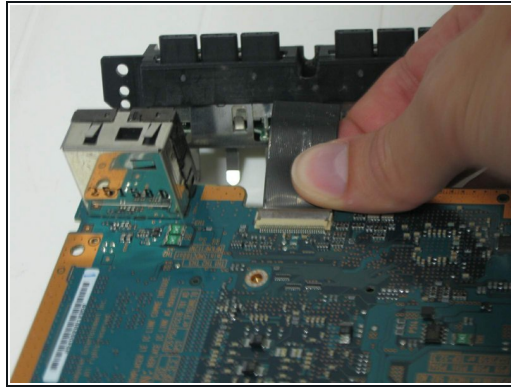
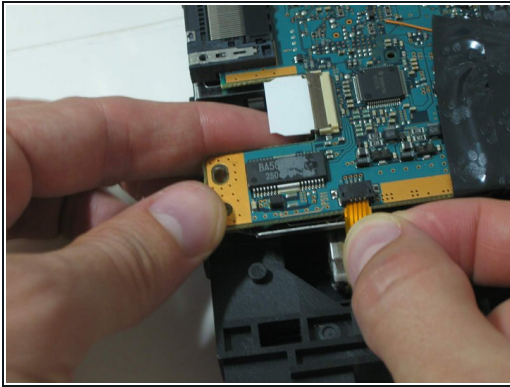
- Remove the isolation cover from the metal case.
- Remove the small screws using a thin crosshead screwdriver.
- And release the metal case from the DVD player, as indicated, using a small flat screwdriver

Step 21



- Now you can remove the metal case and find the main board.
- Look, the flat cables! Now is the time to remove them. Be gentle please.

Step 22



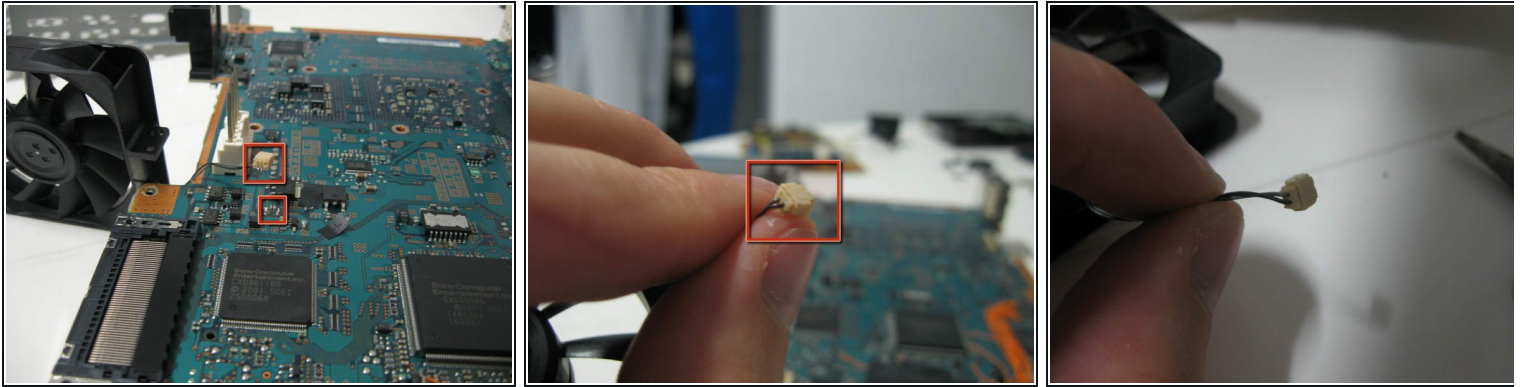
- There are 2 more and the DVD player is free.

Step 23



- Now you can turn upside down again, and remove the metal protection.
- This is the other side of the main board.

Step 24



- Well, the try to remove the cooler wire was a total failure.
- The plug is made to deattach, but it is old. The plug had turned into one piece, and broke the soldering.
- Well, I'll find a way to fix it. I always do =)

Step 25



- This is the end of the teardown.
- From top, from the left: Ethernet adapter, Ps2 case, Hdd, Cooler, Cooler grid, bottom metal cover protection, screws protectors, screws, Controller board, Power swtich, Power source board, Plastic cover to isolate the power source board, top metal cover, DVD Drive, Expansion Bay cover, main board, reset/eject structure.