Dell Power Supply (MH596) Teardown

This general guide will thoroughly explain how to deconstruct a power-supply made by DELL.

Written By: Owen Preece

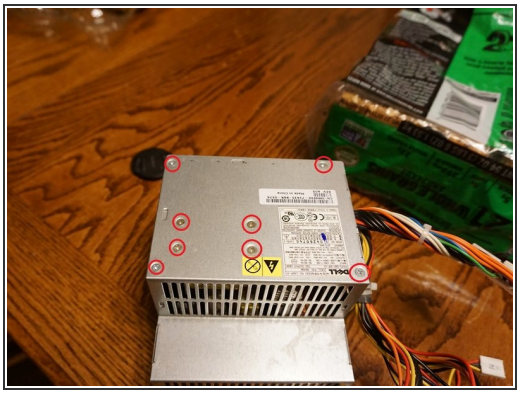
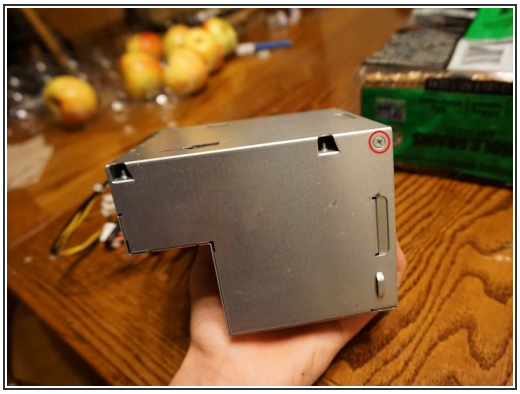
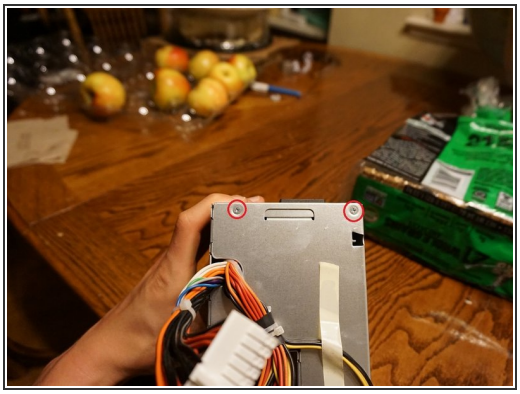
INTRODUCTION

Make sure you have disconnected the power supply and removed it from the computer, letting it sit for 1-5 minutes to ensure release of charge, start this process with a medium sized screwdriver.

TOOLS:

- Socket Set (1)

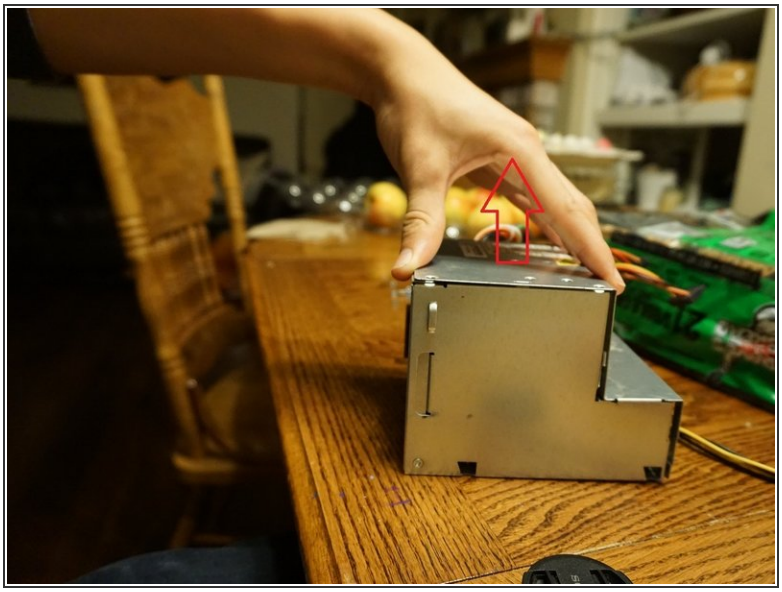
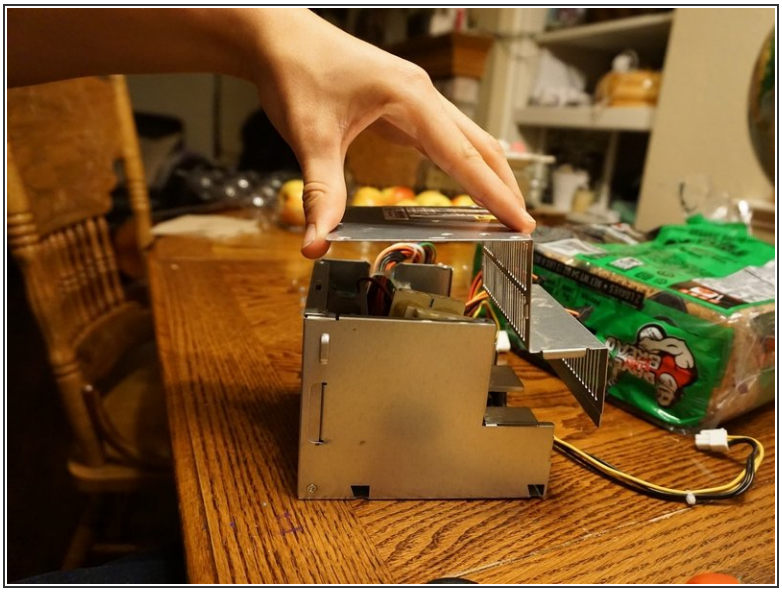
Step 1 — Dell Power Supply (MH596) Teardown

- Remove the outside case screws as seen in all 3 photos with a medium sized screwdriver checking for NO wiggle room

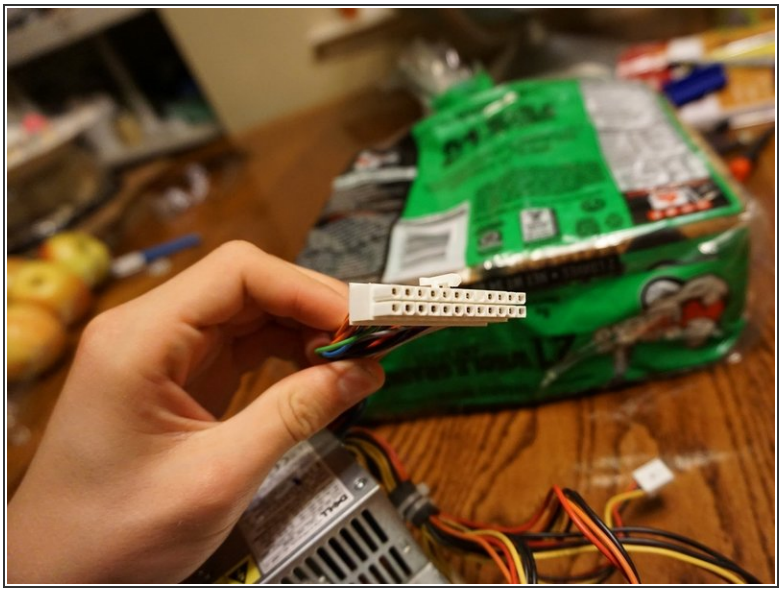
⚠ Unplug and leave unplugged for 1-5 minutes to ensure discharge and safety when disassembling(though you don't really need to let it sit)

Step 2

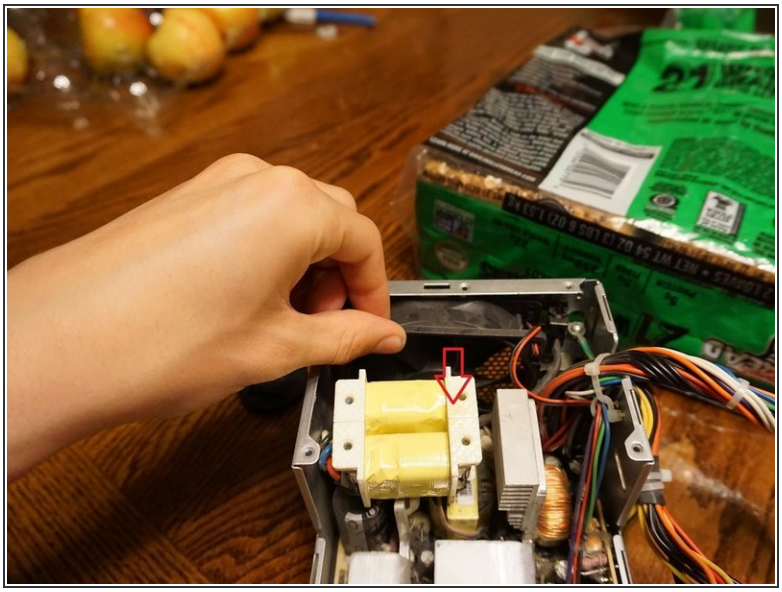
- Here you can now remove the top of the power supply case

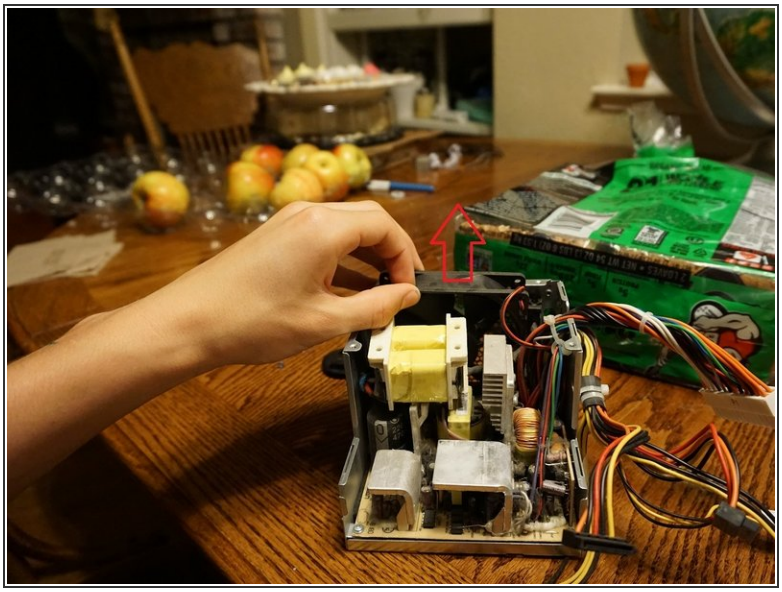
Step 3



- The port on the first picture is actually the power port of your computer
- the power supply uses connections going into the computer to redirect and resist the electricity to allow the computer to perform it's tasks

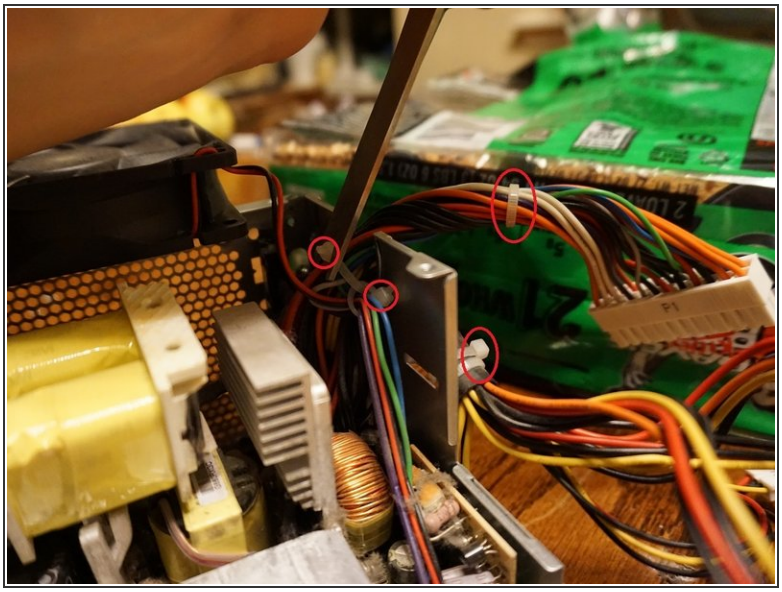
Step 4

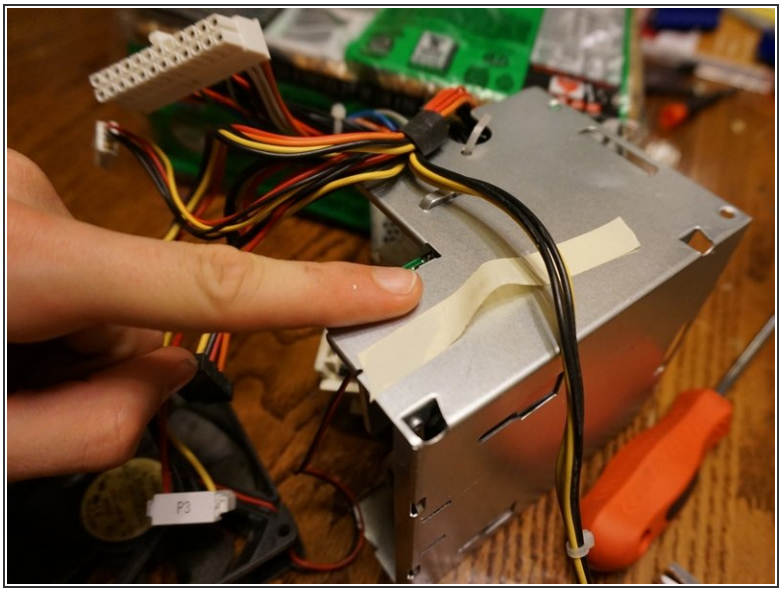




- To remove the fan ween it forward and pull up with the frame facing towards you like a staircase

Step 5





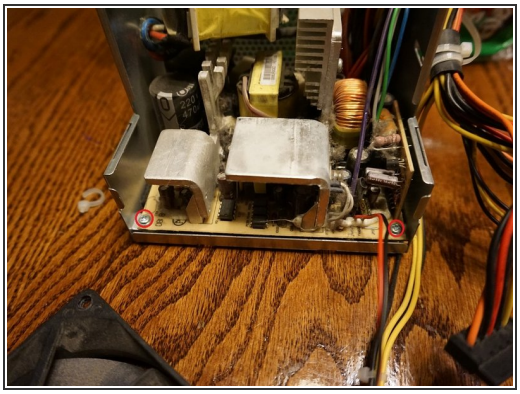
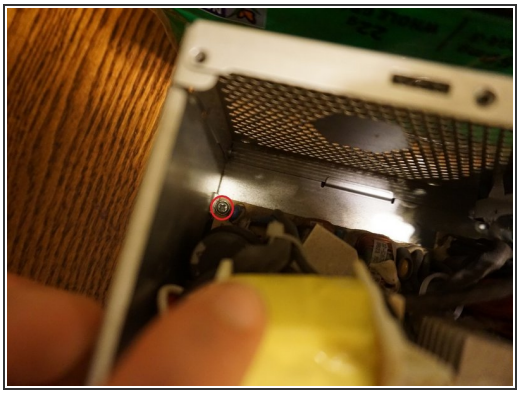
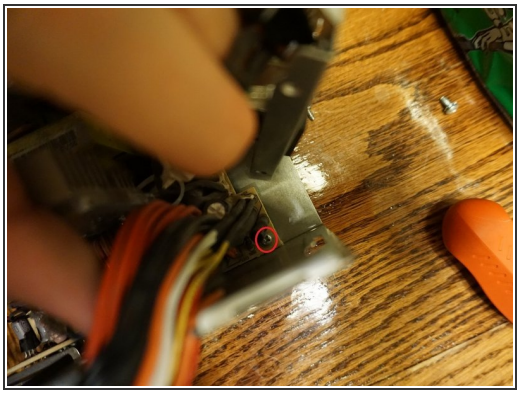
- To free the cables up remove all tape and zip-ties to further removal

⚠ This will not help your situation if you are trying to fix the power supply

Step 6

- Remove a screw on the back end(with the stair pattern facing towards you) to free the back panel(partially)

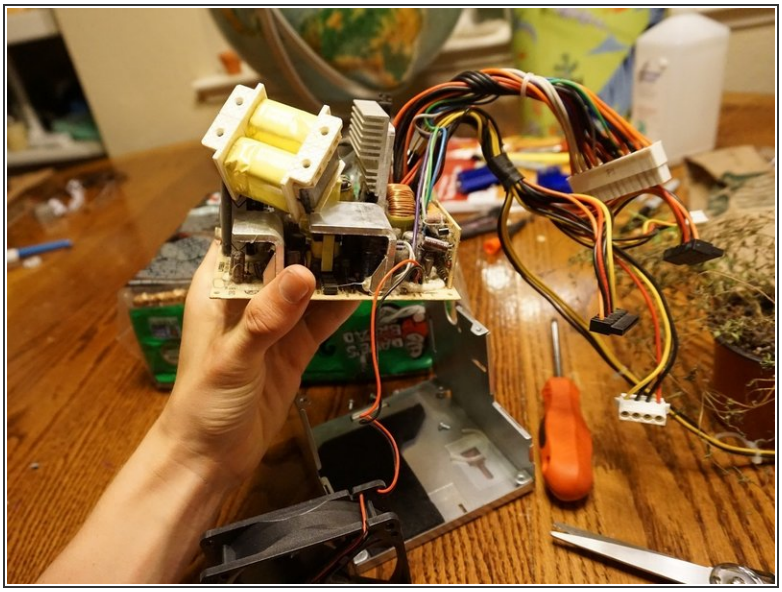
Step 7

- Remove all four screw surrounding the circuit board in charge of dispersing and changing the power

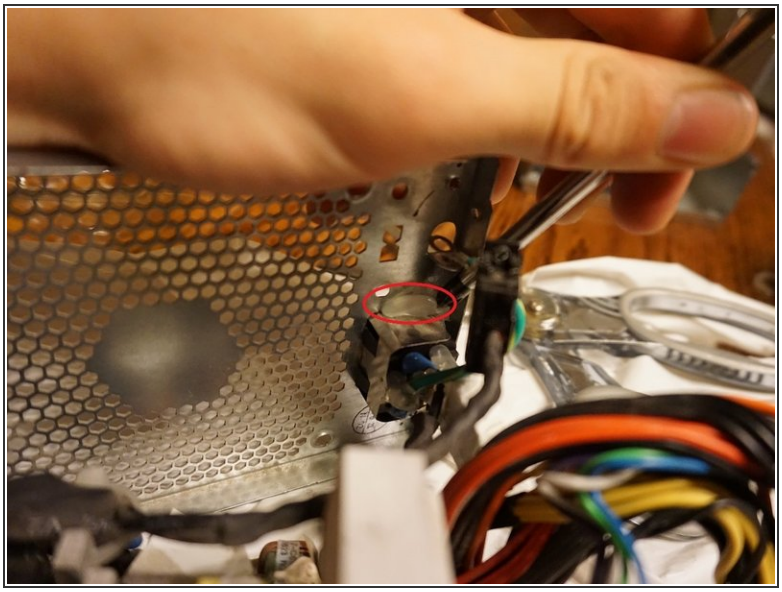
⚠ The top right screw is really annoying, ensure you have clipped all zip-ties and the proceed to drive yourself insane

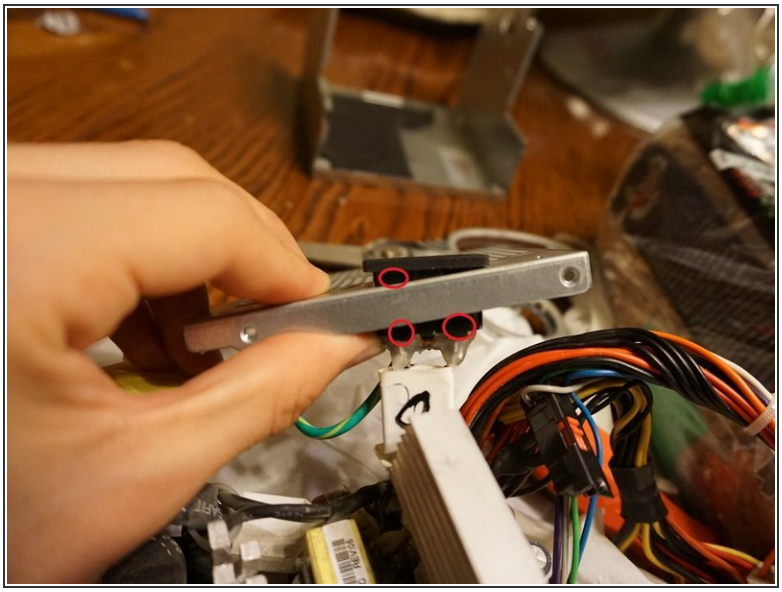
Step 8




- Gently move the board on a yaw axis(horizontal)
- Place it on a buffer that will stop you board from scratching whatever it's on top of

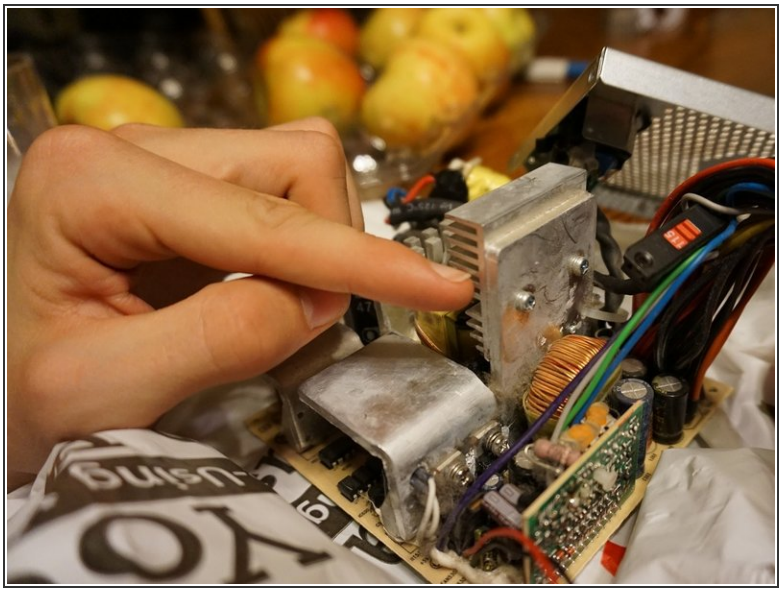
Step 9

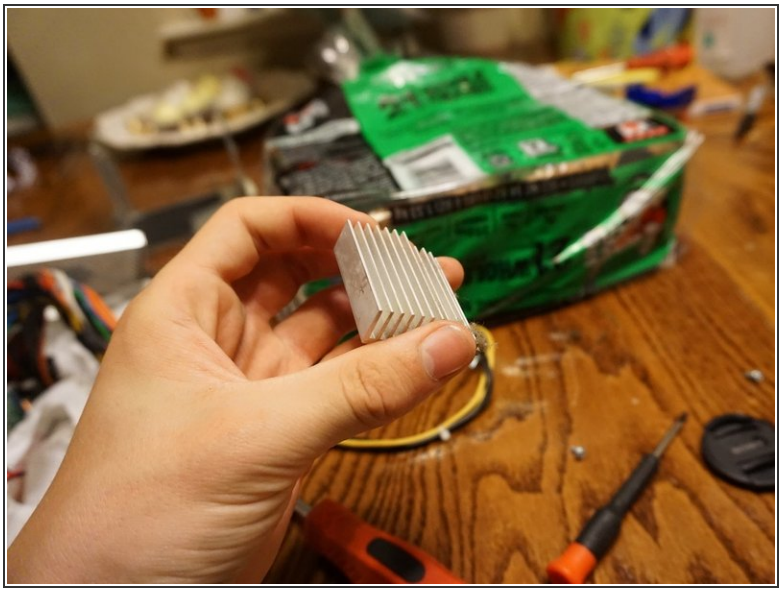




- Remove glue surrounding the port that would be visible outside your computer(it is hot glue so it should be easy)
- There are clips to pull the metal back and the black plastic through to help remove the black plastic, though I do not cover this it should never be necessary

Step 10

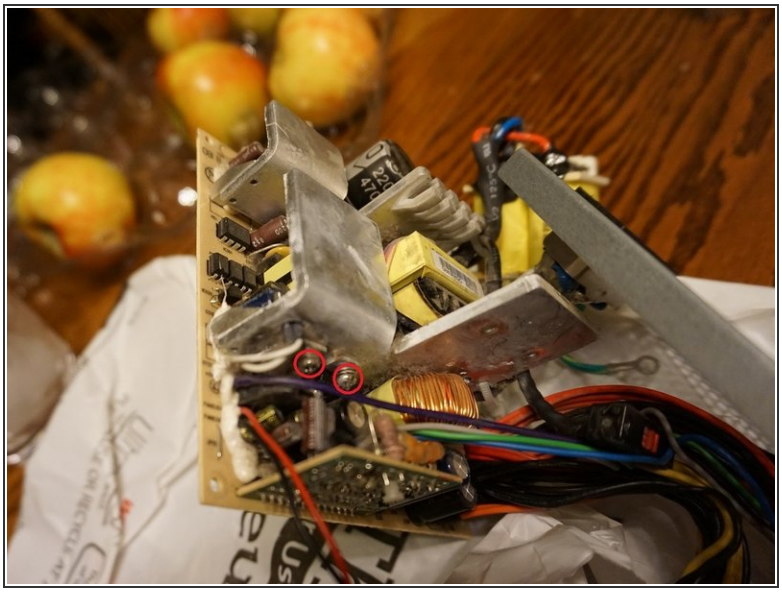




- To remove the heat sink simply detach the two back screws with a medium sized screwdriver

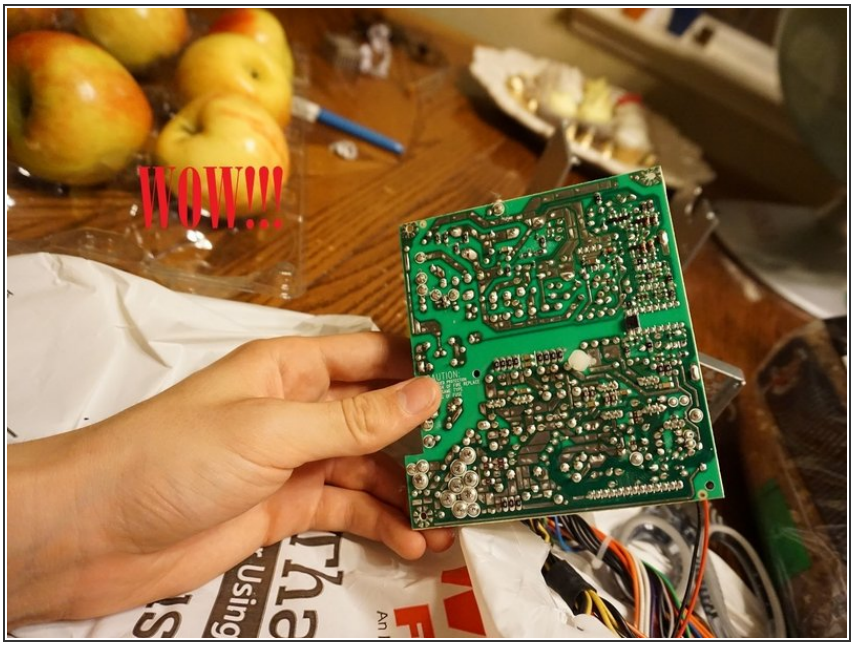
Heat sinks are used to disperse heat, as they have a large surface area to pawn the heat off to the air around it

Step 11



- These two screws can be removed using a small socket wrench
- The bolt can be removed by something as simple as pliers(2nd picture)

Step 12



- After all this work of disassembling this as far as you could go you surely have seen the magnificence of how crucial proper power is to a computer and everything around us, from you to what your reading on right now, we all have one thing in common: we need energy

