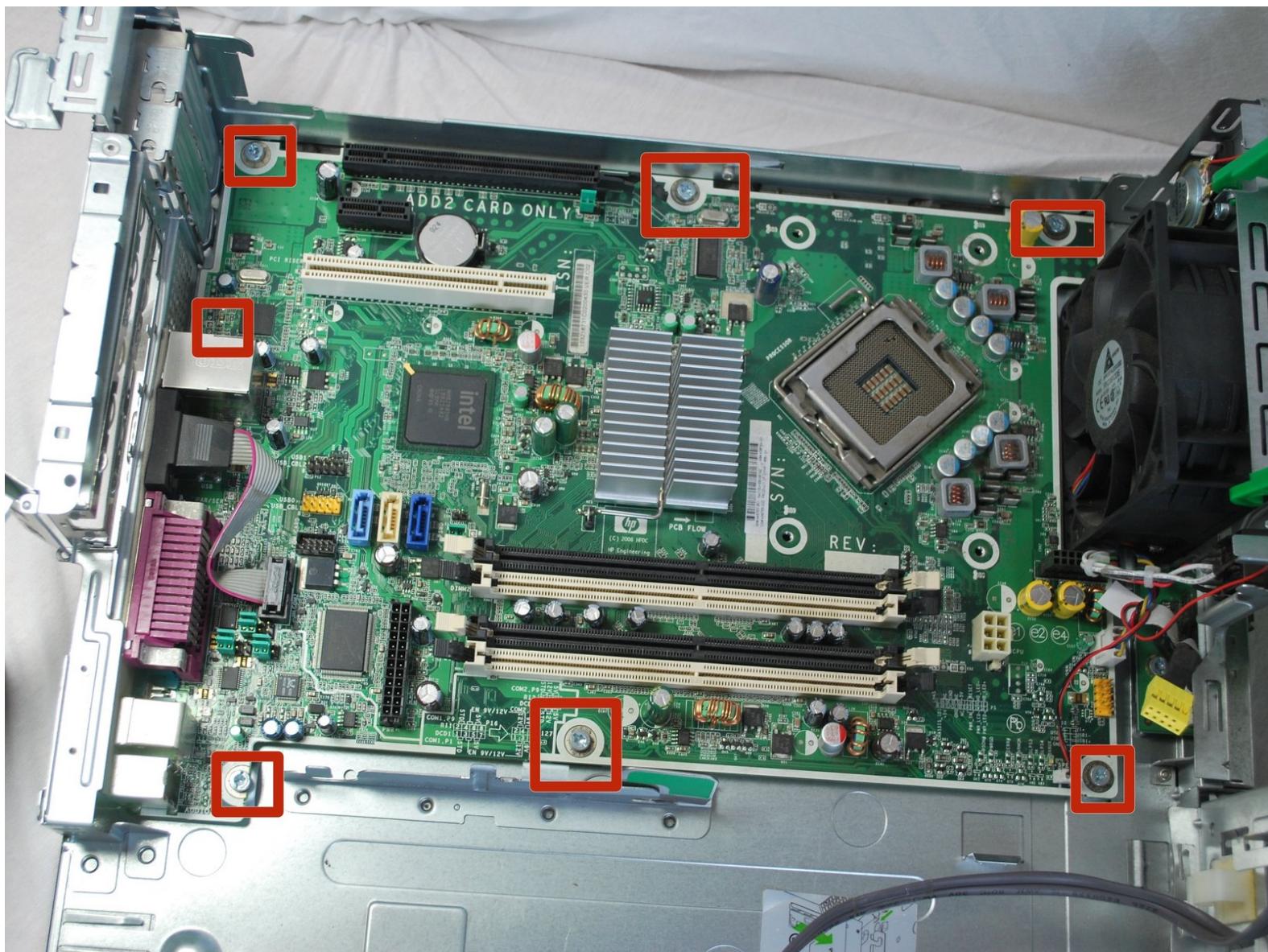




# HP rp5700 Repair Motherboard Replacement

Follow these steps to replace the motherboard for this device. When replacing the motherboard used caution when tightening the screws, be sure that they are not over-tighten as this can cause stress to the board itself.

Written By: Alyssa Briones



## INTRODUCTION

The motherboard is the component that connects all the parts of the computer together either through wire connections or direct integration on the the board itself.

### TOOLS:

- T15 Security Torx Screwdriver (1)

## Step 1 — Cover Removal



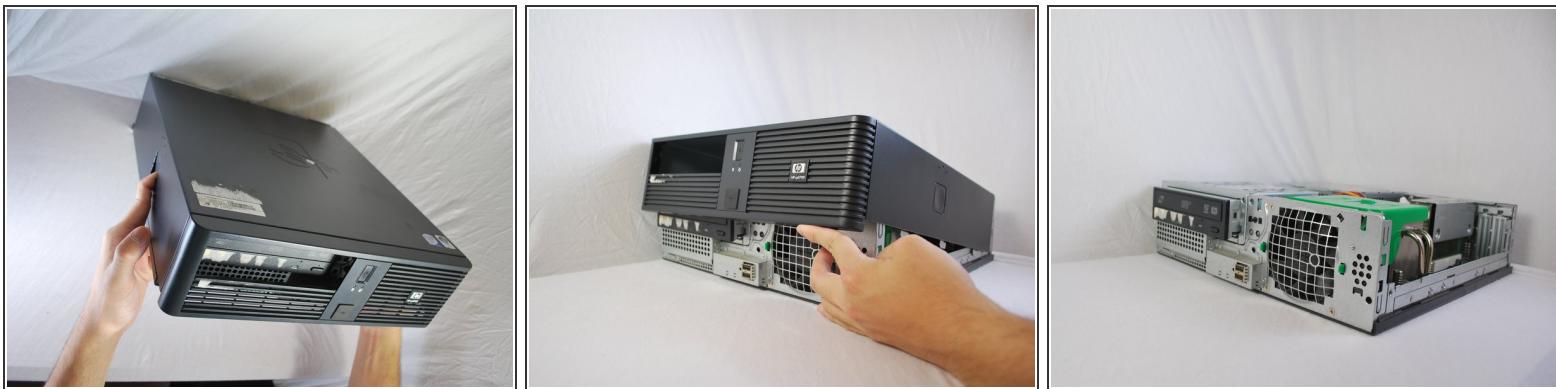
- Make sure the computer is unplugged.
- Be sure to touch any metal surface with your hand to discharge any static electricity that might have built up.
- Make sure all auxiliary cords are disconnected from the desktop. If not, remove them using your hands.
- Set the desktop down horizontally with the front side facing you.

## Step 2



- Hold the desktop with two hands by grasping both sides of the desktop.
- Press the buttons on both sides using your index fingers.

## Step 3



- Slide the top cover about an inch forward using your thumb to push it towards you.
- Make sure that the bottom is still secured by both hands.
- Lay the desktop back on the table and pull the case forward as far as it can go.
- Lift the cover up and off.

## Step 4 — Optical Disk Drive (CD Drive)



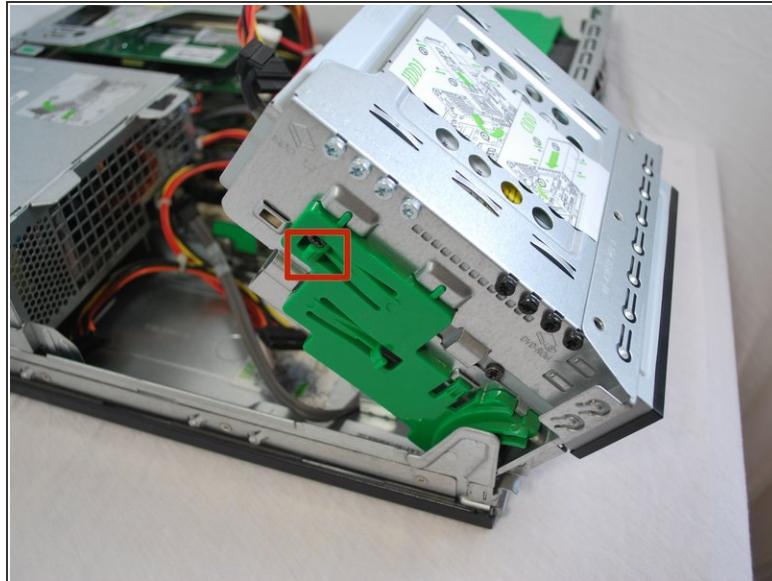
- Using your hand, grip the Optical Drive and lift it up into a 45 degree angle.

## Step 5



- Disconnect the power supply cord and the SATA cord using your hands to pull them out.

## Step 6



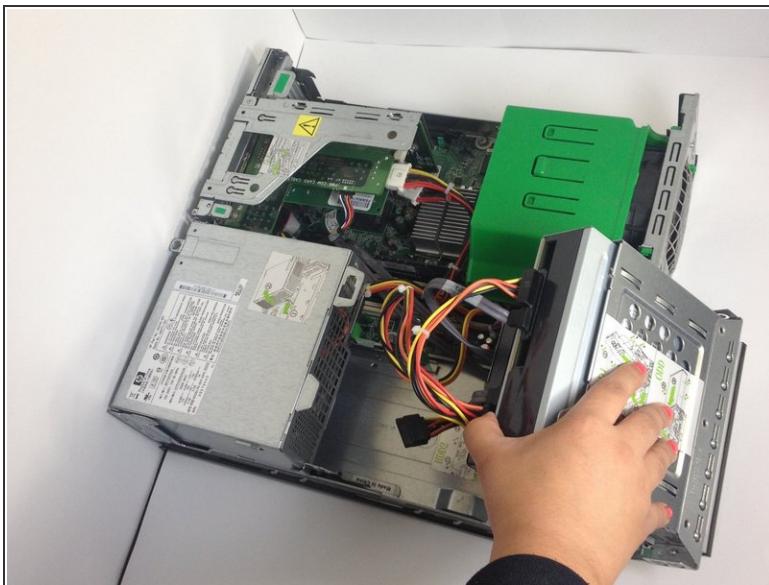
- Using your left index finger, lift the upper green tab found on the left side of the green piece.
- Using your opposite hand, use your fingers to push the back of the drive forward and slide it out away from the desktop.

## Step 7



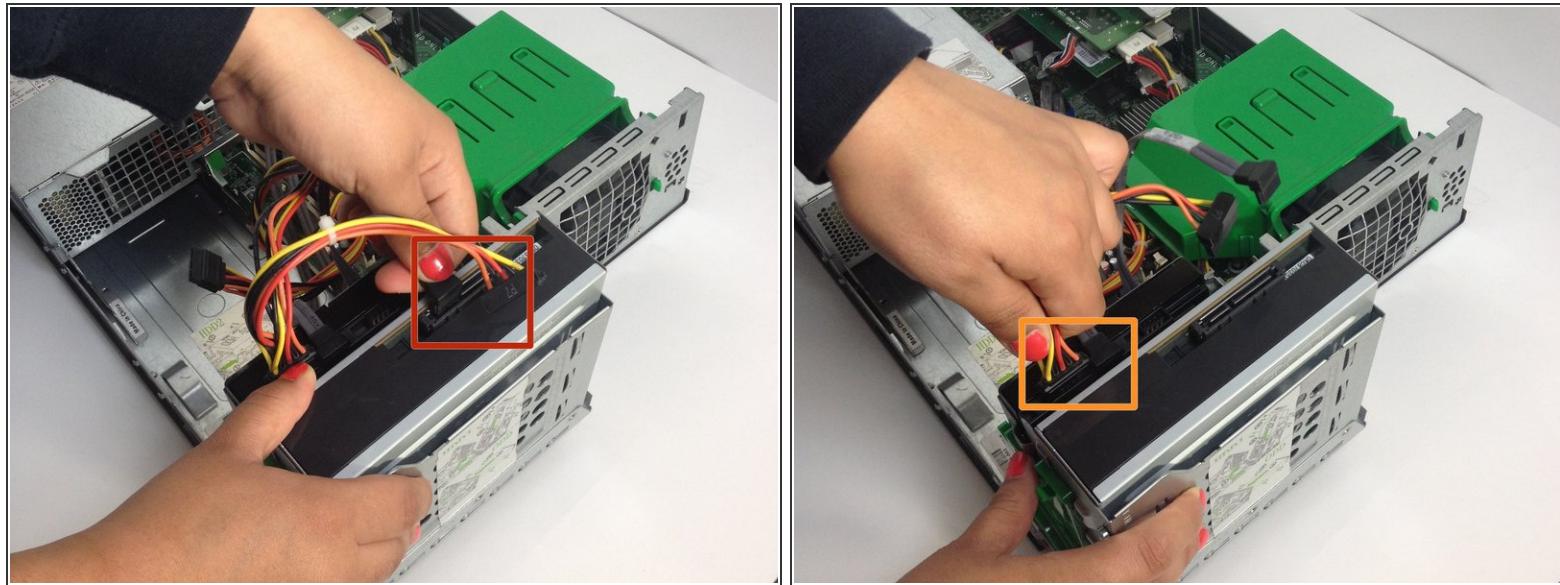
- Grasp the optical drive with your right or left hand and pull the drive out towards you.
- *(i)* It will help if you lay the device flat in order to remove the drive.

## Step 8 — Hard Drive



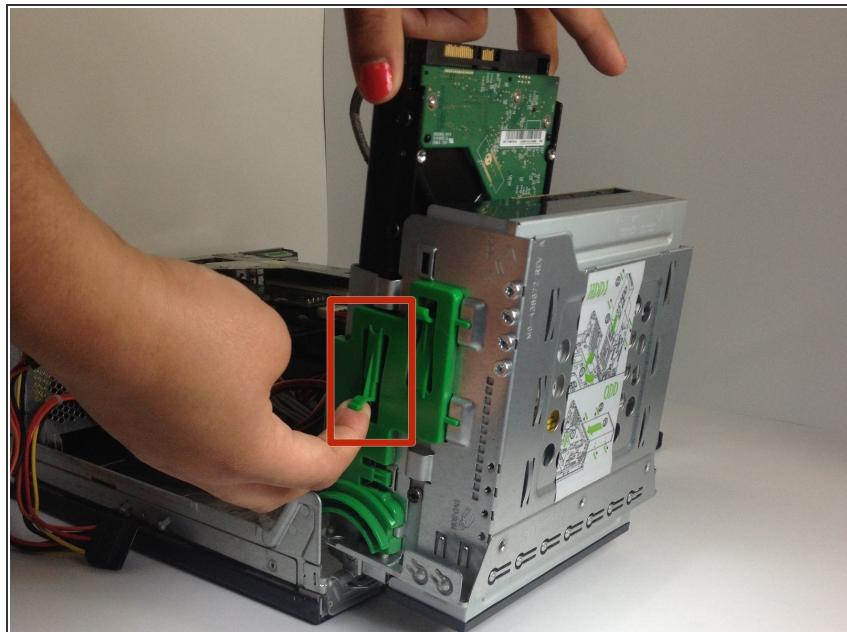
- Using your right hand, grip the CD drive and lift it up to a 90 degree position.

## Step 9



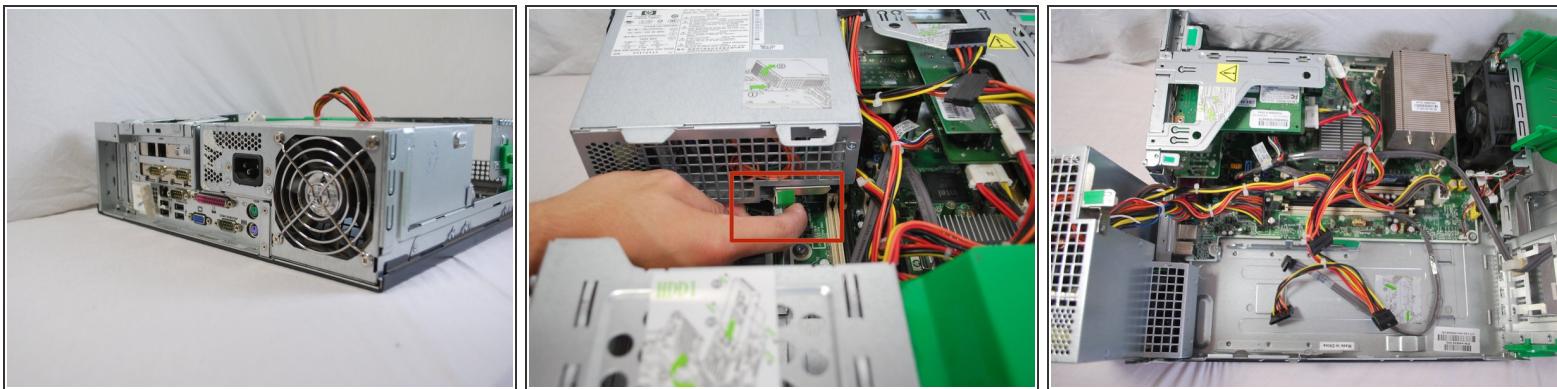
- Use your hand, whichever you prefer, to grip the two cords on the CD drive and remove the two cords by pulling up.
- Repeat the same process to remove the two cords connected to the Hard Drive.

## Step 10



- Use your right index finger to pull forward the green flap on the side of the hard drive.
- At the same time as you are lifting the green flap, use your left hand to lift the hard drive up and out.

## Step 11 — Power Supply



- Using your right index finger, press the tab with the green sticker located underneath the power supply.
- While pressing the tab, lift up the power supply the same way you lifted up the optical drive.

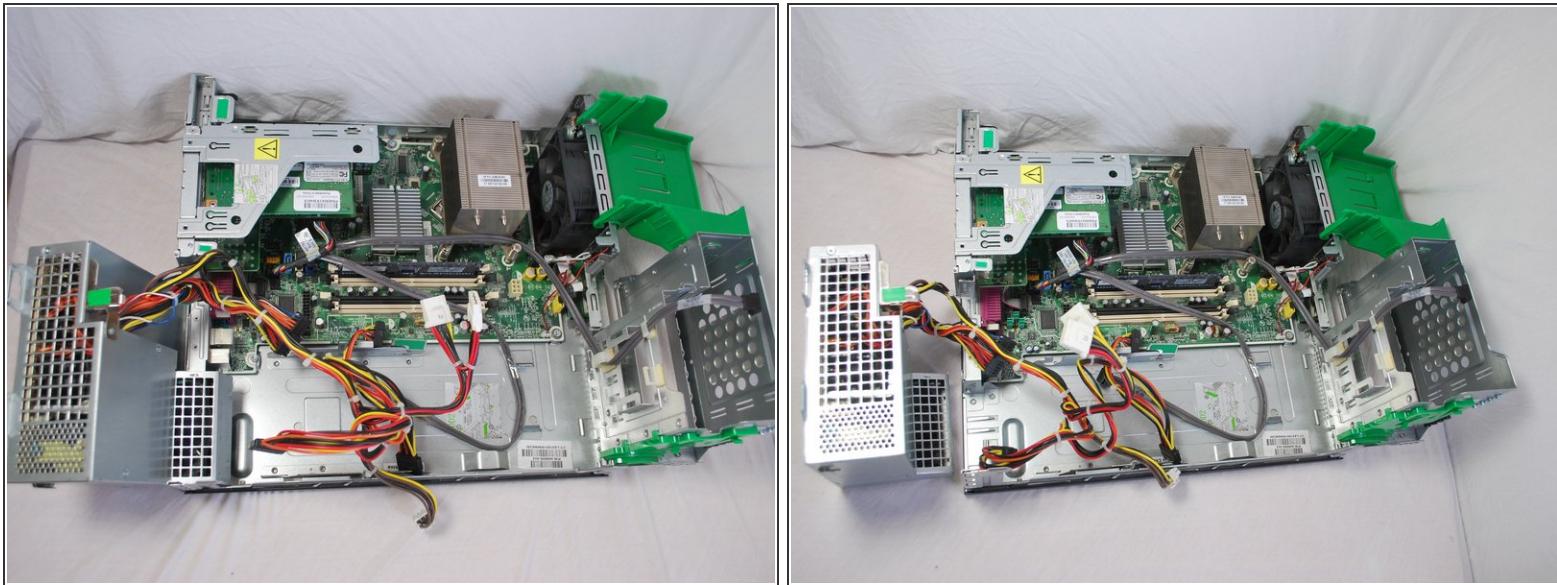
 You lifted the optical drive by grasping it with the opposite hand while pressing the tab and pulling it outward way from the center of the device.

## Step 12



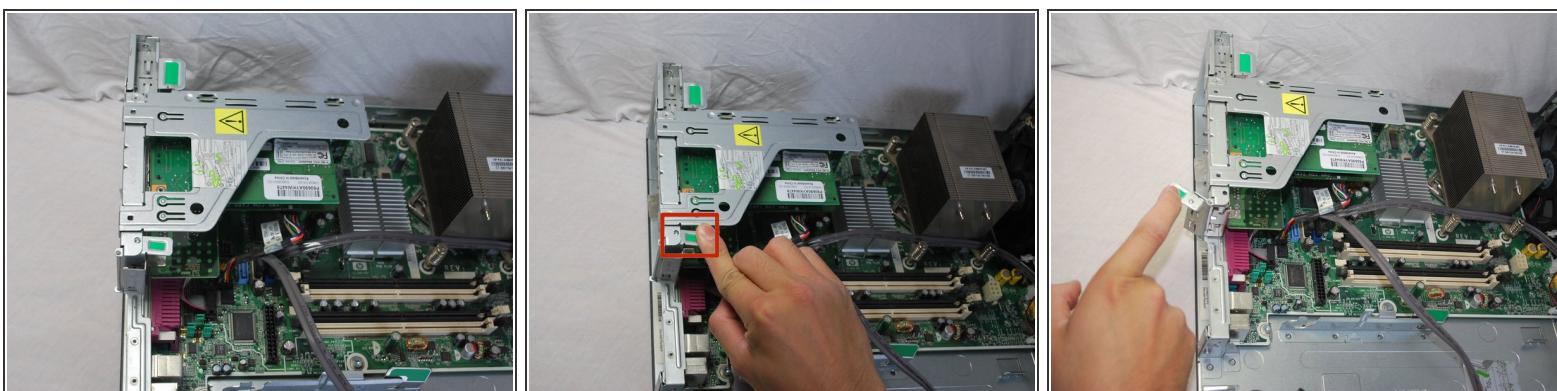
- Remove the two cables on the motherboard by grasping the cables with your hand and pulling the cables up and out.
- Repeat the same process to remove the internal card power cable.
  - This is the same process as performed when you previously removed the power cables from the optical drive and the hard drive.
  - Some cables may have small clips securing them in place. If so, be sure to press these clips inward using your fingers before pulling them out.

## Step 13



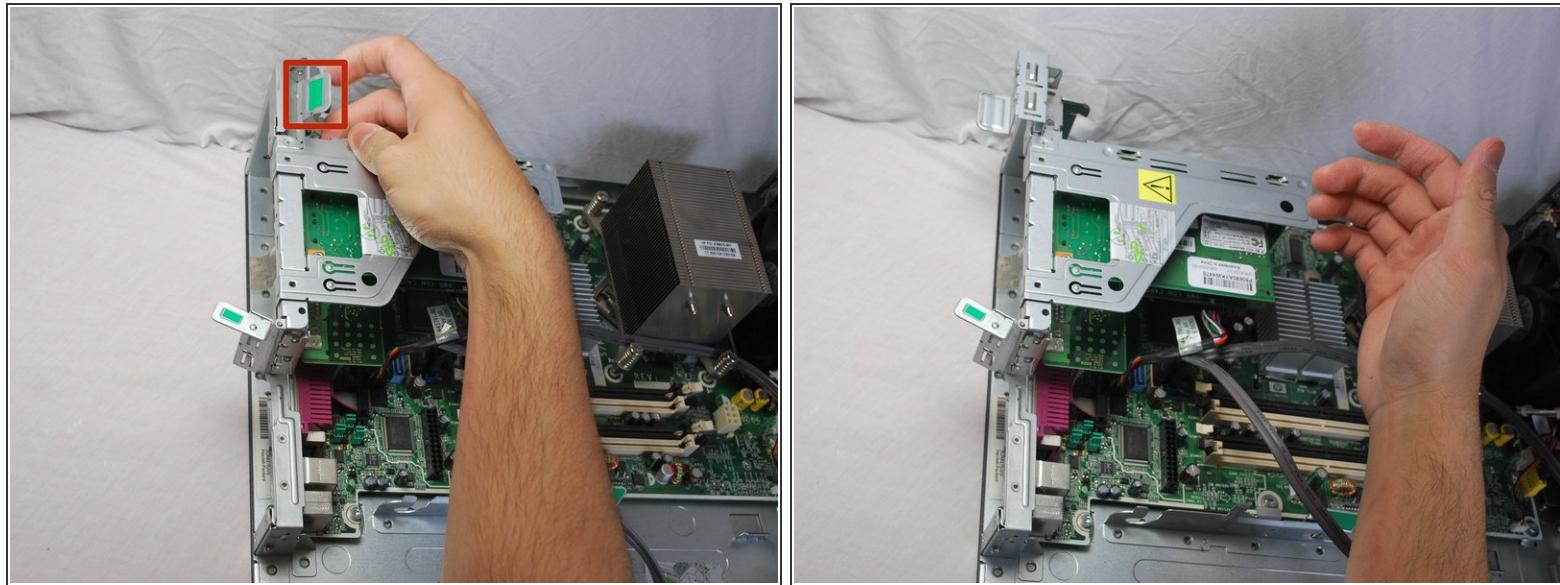
- Continue to rotate the power supply to a 90 degree angle pointing upward.
- Gripping the power supply with your hand, lift the power supply up to remove from the desktop.

## Step 14 — Extra Internal Cards



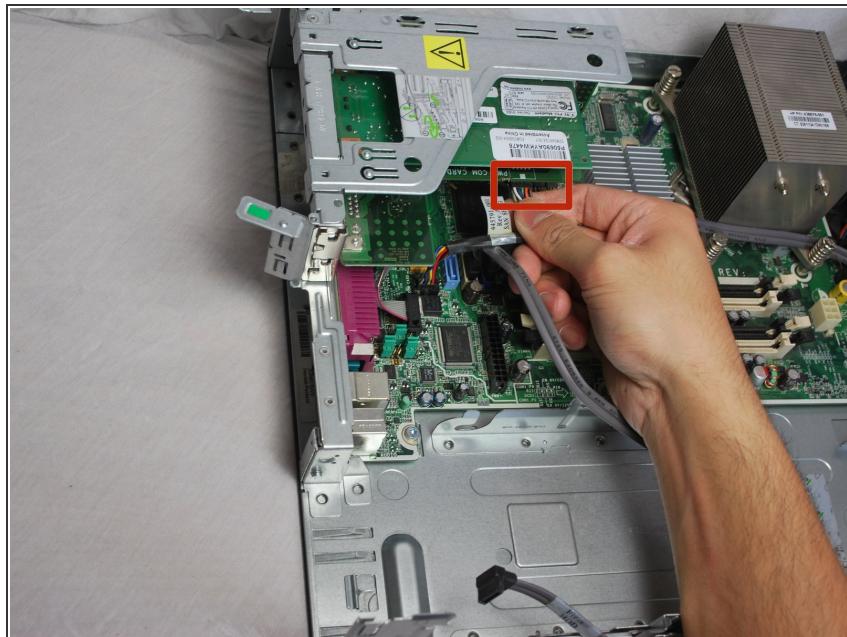
- Pull out the tab with the green sticker using your index finger.

## Step 15



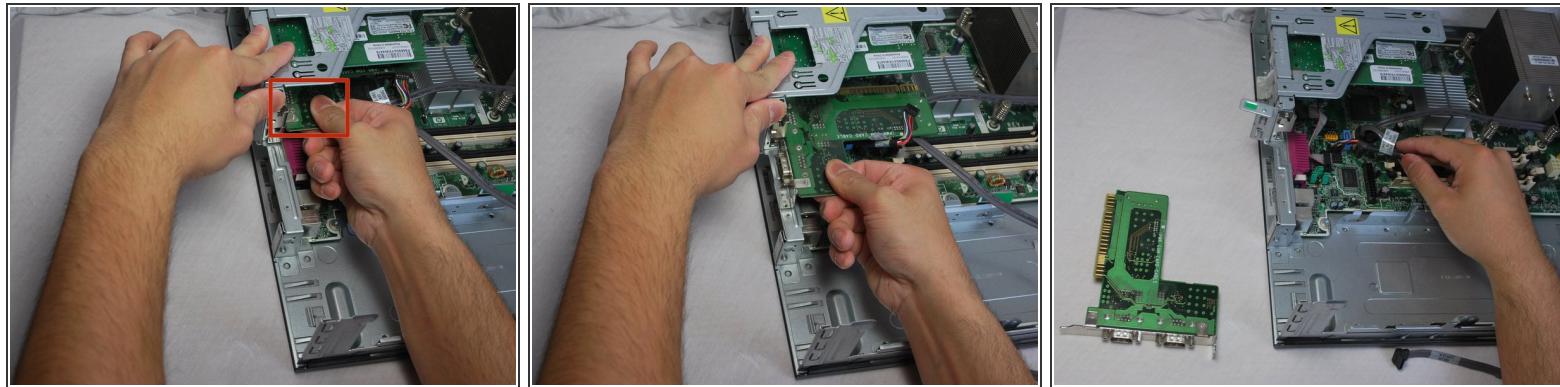
- Using your index finger, pull up the green tab on the left side of the cards.

## Step 16



- Use your right hand to remove the cable that is attached to the COMS card by grasping the cables and pulling it out.

## Step 17



- Hold the back frame of the case with your left hand, and grab the larger section of the COMs card, or the bottom card, with your right hand.
- Wiggle the card a little and pull the COMs card straight out towards you.

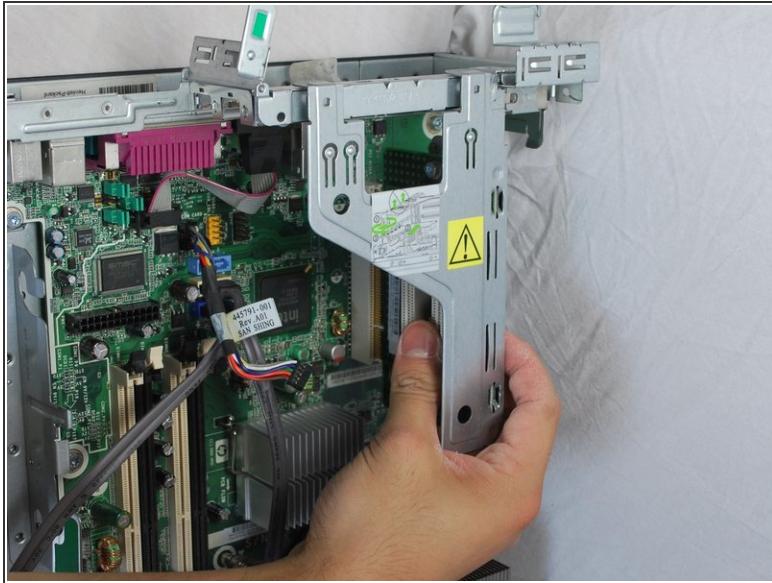
*(i)* "Wiggling" the card first will make it easier for you to take the card out instead of just forcing it out.

## Step 18



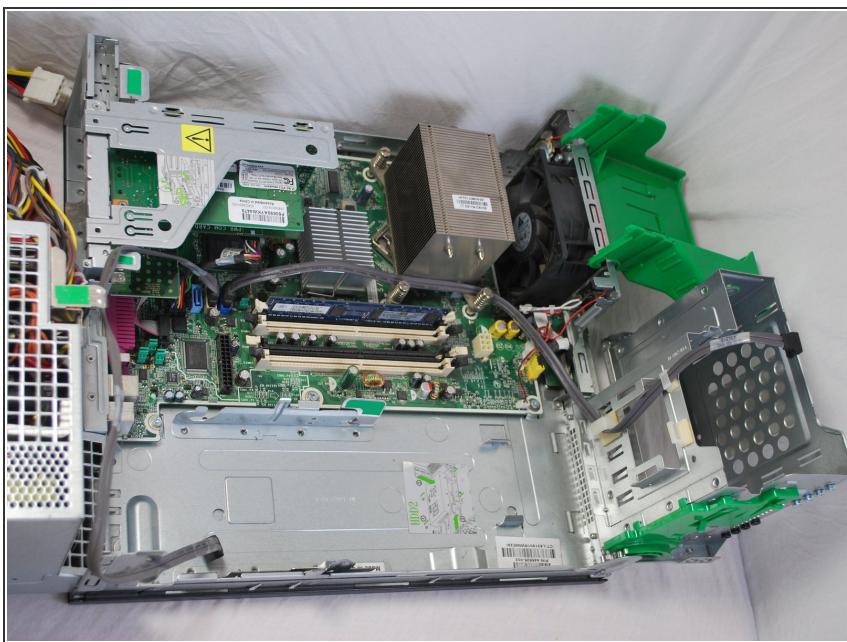
- Grab the larger section of the phone line connection card, or the bottom card, with your right hand while your left hand holds the back frame of the case.  
*(i)* This is the same process as you previously performed to remove the COMs card.
- Wiggle the card a little and pull the phone line connection card straight out.

## Step 19



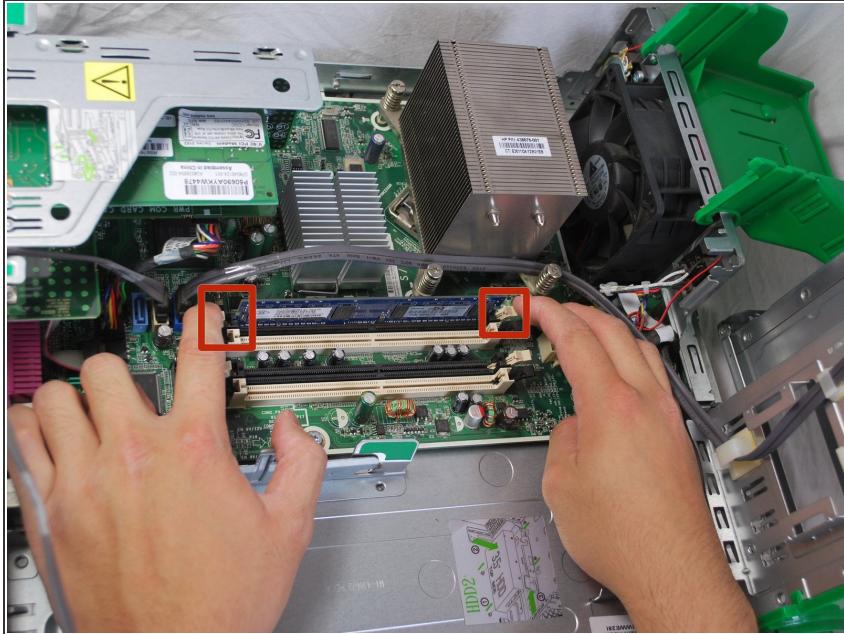
- Using your hand, firmly grab the base card by the main green section while holding down the case with your opposite hand.
- While holding the base card, wiggle it until it is released from the motherboard and pull straight out and set it aside.

## Step 20 — RAM



- Ensure that the cables connecting the power supply and the drives to the desktop are completely removed.
  - If not, grasp the necessary cables with your hand and pull the cables straight out.
- For easier access, lift the CD Drive and power supply away from each other in upwards directions so that each are at 90 degree angles.

## Step 21



- Using your index fingers, press the two tabs on the sides of the RAM stick.

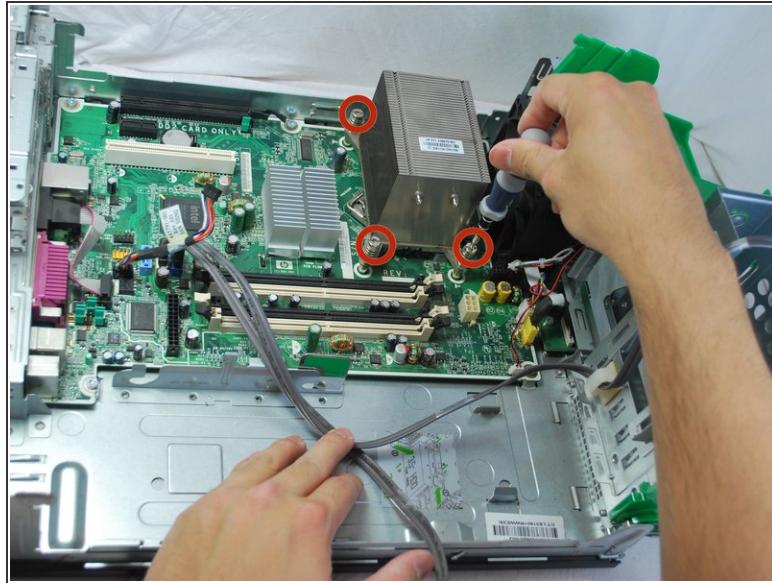
- i* Make sure you exert the same amount of force on either side so that the RAM pops out correctly.

## Step 22



- The RAM should pop right out. If not, wiggle the RAM a little first and then use your hand to pull it straight out.
- The RAM card is a very indestructible component, so don't get worried if you scruff by accident.

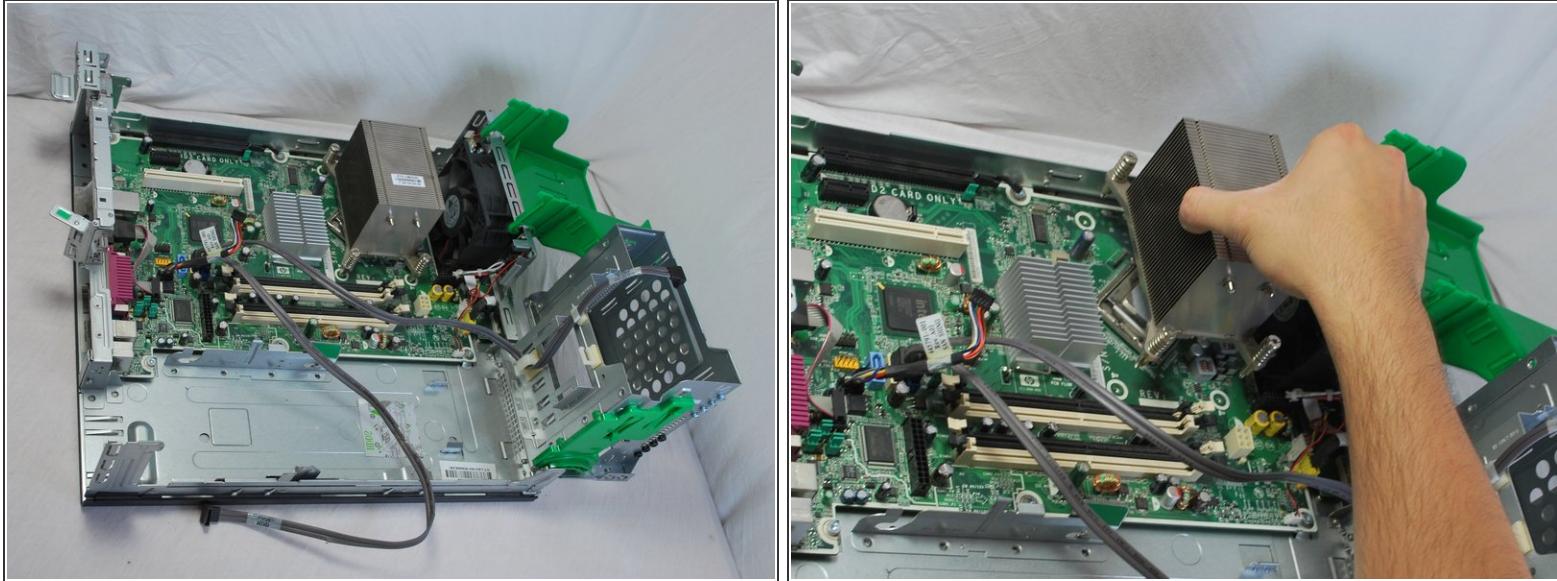
## Step 23 — Central Processing Unit(CPU)



- Using a Torx-Security T-15 screw driver, loosen the screws a little at a time evenly on each screw (process described below):
  - This process is done by slightly unscrewing a screw at one corner and moving to the screw at the diagonal corner next to unscrew slightly.
  - Then move to the opposite corners and repeat the process.
  - Continue until all of the screw are completely removed.

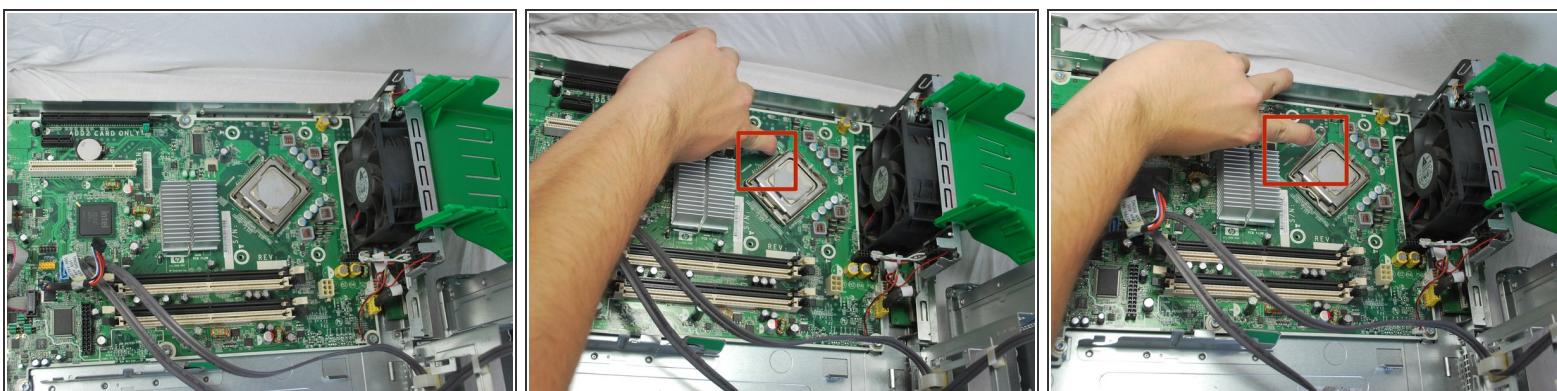
**⚠** Remember to loosen opposite corners first to equalize the pressure on the springs. Do not completely unscrew one screw at one time. Unscrew each screw a little at a time.

## Step 24



- Once all the screws are loose, grip the heat sink using your hand and lift it up.
- Gently place the heat sink next to the desktop.

## Step 25



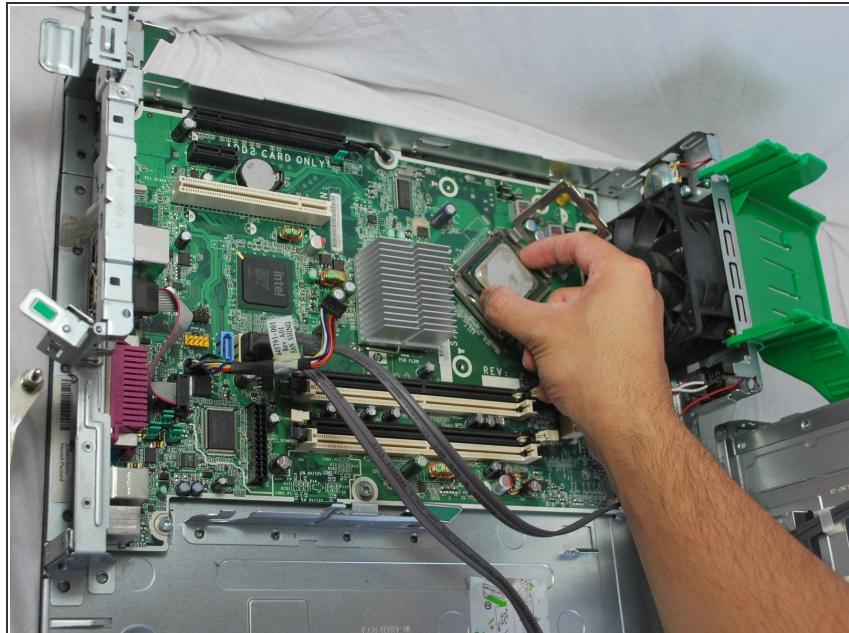
- Using your finger, push the lever, located on the right side of the CPU, down and out.

## Step 26



- Using your index finger, lift up the bracket surrounding the CPU.

## Step 27



- Carefully and gently grab opposite sides of the CPU only touching on the outer green portions.
- Lift the CPU up and off using your hands.

 Do not touch anything other than the green sides or else you will chance breaking the CPU.

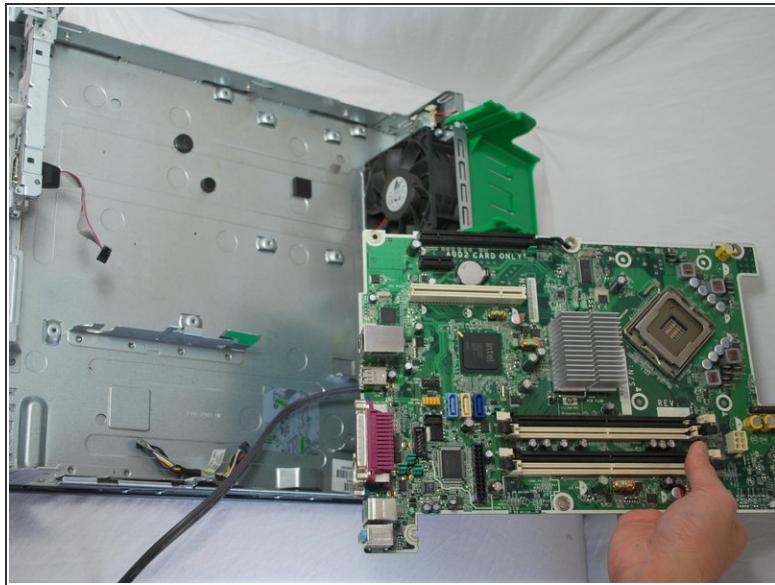
## Step 28 — Motherboard



**⚠** Make sure everything is removed and/or disconnected, including the heat sink, the CPU, and all connecting cables.

- Remove the 7 screws surrounding the edges of the motherboard using a Torx-Security T-15 screw driver to unscrew each screw counterclockwise.

## Step 29



- Lift up the motherboard using your hands and take it off of the main body.

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