



Removing back panel and components to to get to CPU

This guide will show you how to remove the back panels to get to the CPU. This guide is also nice if the computer is over heating and needs to be cleaned. There are two sets of fans behind the back panel. One for the CPU/GPU heatsink & one for the PSU.

Written By: Ashton



INTRODUCTION

This guide will walk you through removing the HP Touchsmart 300 back panels to get down to the motherboard. With the locations of the CPU, memory, hard drive, DVD/CD-rom, wifi card, fans, etc.



TOOLS:

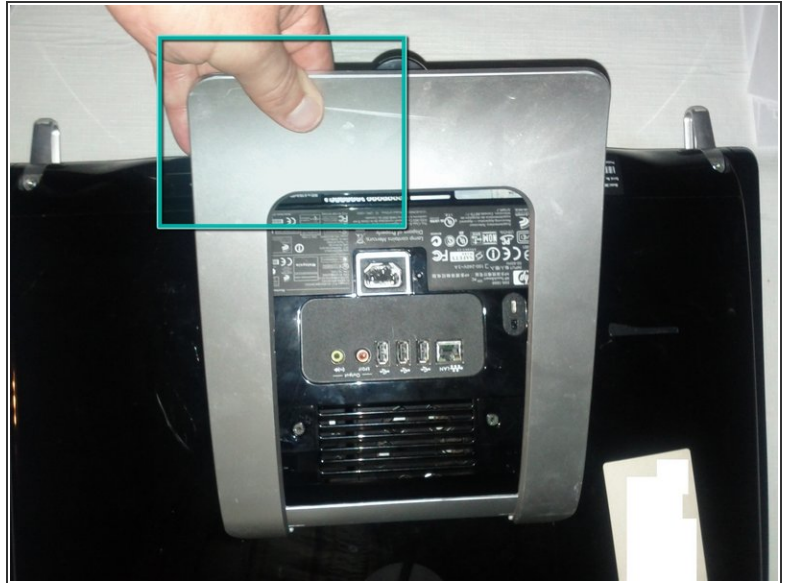
- [Flathead Screwdriver](#) (1)
 - [64 Bit Driver Kit](#) (1)
-

Step 1 — Removing back panel and components to to get to CPU



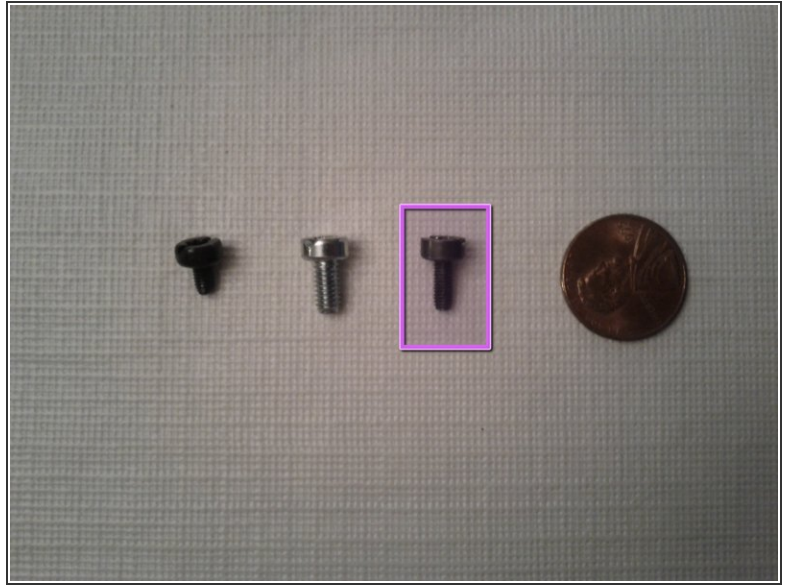
- ① Tools your need, flat head screwdriver. Phillips screwdriver just for the heatsink on CPU/GPU.
- ⚠ Unplug everything and then press the power button twice. Obviously it will not power on, this is to just remove stored power in the capacitors for safety.
- You'll need to have the screen side laying down.
- ⚠ Make sure to put the screen side on a clear soft surface to not damage the touch screen.

Step 2



- ⓘ Make sure you have the kickstand out as if it was up right.
- Lift up the kickstand with your hand.


Step 3



- Remove the two screws with a flat head screwdriver.
 - Back panel screw compared to other sizes screws that will be removed later.
- i** Step 14 has a note on all the screws removed in this guide.


Step 4



- After the screws are removed, slide out off side panels.
 - Then left them up and remove them off to the side.
 - What the back side panels look like.
-  Remove both side panels.

Step 5



-  Back side panels should now be removed.
- Memory Ram Sticks, SO-DIMM
 - SATA Hard Drive 3.5"
 - DVD/CD-rom Drive

Step 6



- Next we'll be removing this panel.
- Put your finger under the plastic panel and left up with your finger. The panel should put up a bit, then do the same thing on the other side.
- Panel once removed.

Step 7



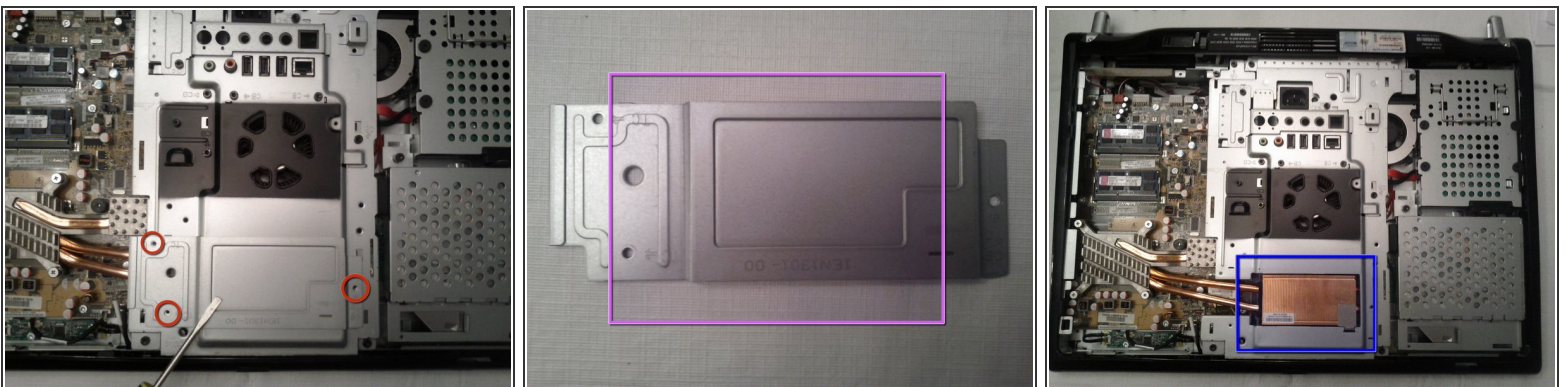
- Now remove the last panel, just like you did with the last one. It should pop up with your finger and be removed.
- Put one of your fingers under the plastic and pull up.
- What the panel looks like once removed.

Step 8



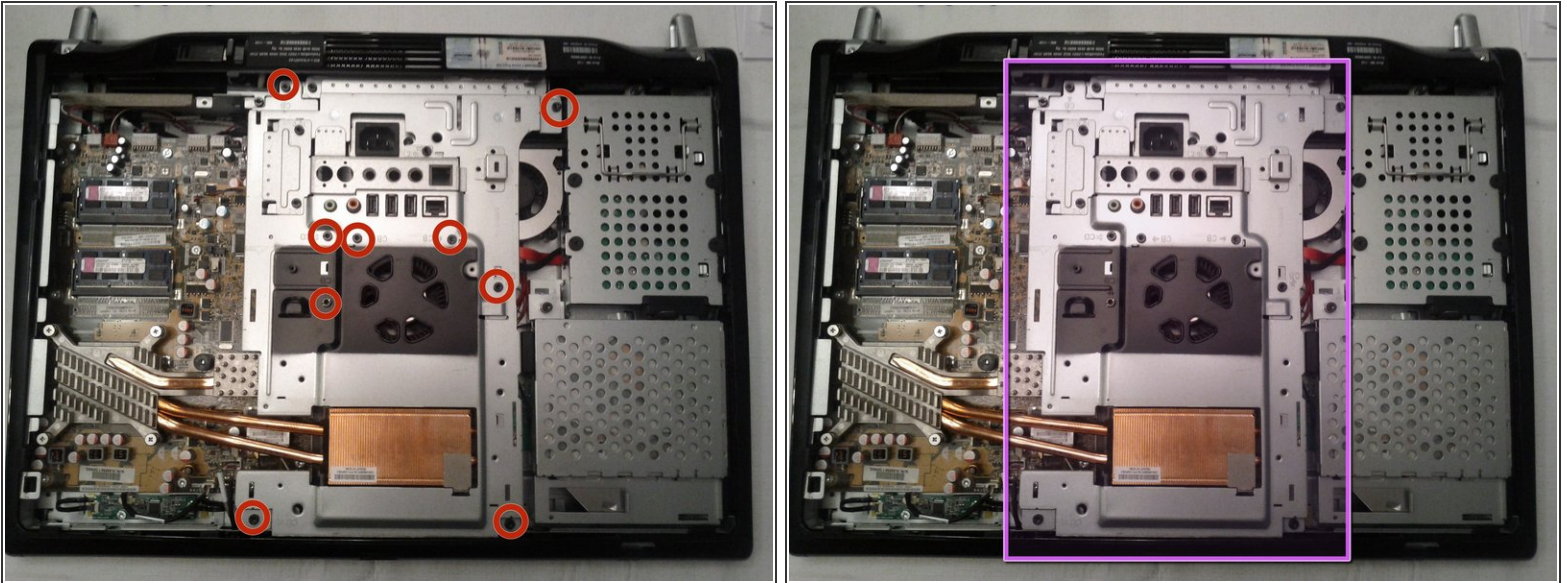
- Now remove the HB screws to remove the kickstand. Use a flat head screwdriver to remove the four screws.
- Note: Slide the kickstand down so the hook in the metal gets released. This will let you left up and remove the kickstand.
- What the kickstand looks like once removed.

Step 9



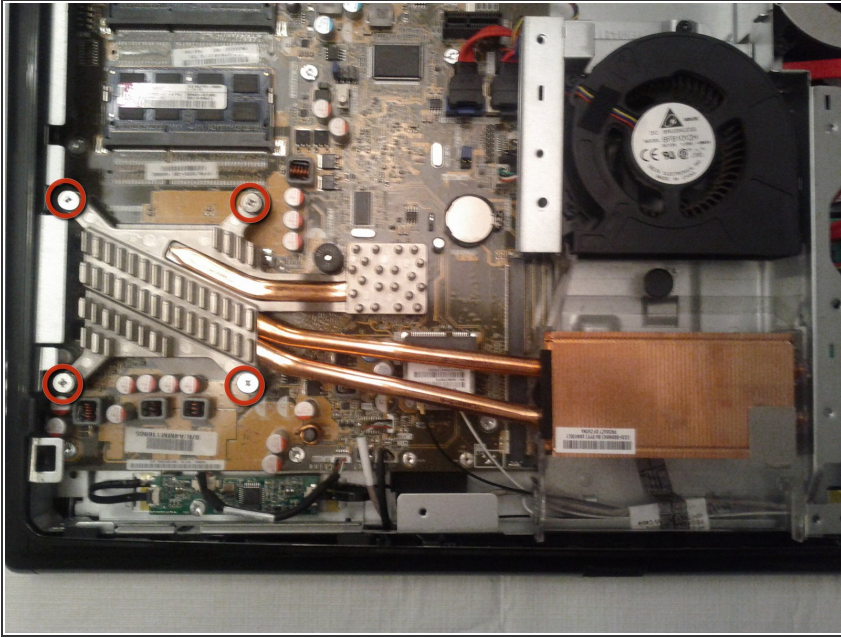
- Now remove the three TC screws to remove the heatsink cover.
- ⓘ Note: I took the picture after I removed the three screws. Also side note, the TC screws are the same size at the CB screws removed later.
- What heatsink cover looks like removed.
- The back of the HP Touchsmart 300 after the heatsink cover was removed.

Step 10



- Remove the nine screws labeled "CB" for the fans cover, with a flat head screwdriver. These are the 8 shown circled, plus 1 more in the central black area.
 - After the CB screws are removed, lift up the fans cover. It will be tethered by connecting wires to the motherboard. Some repairs can be done without untethering, just shifting the cover.
 - To remove the metal panel entirely (assumed below), you will have to unplug 2+ connectors from the motherboard. (More if you have a model with active external connectors like CATV, etc.) An alternative may be to detach the external-connector plate from the fans cover with the 3 screws label "IO-C", leaving just that small plate tethered.
- ⓘ I don't have a picture of this fans cover. Just be aware it is the biggest metal panel removed.

Step 11



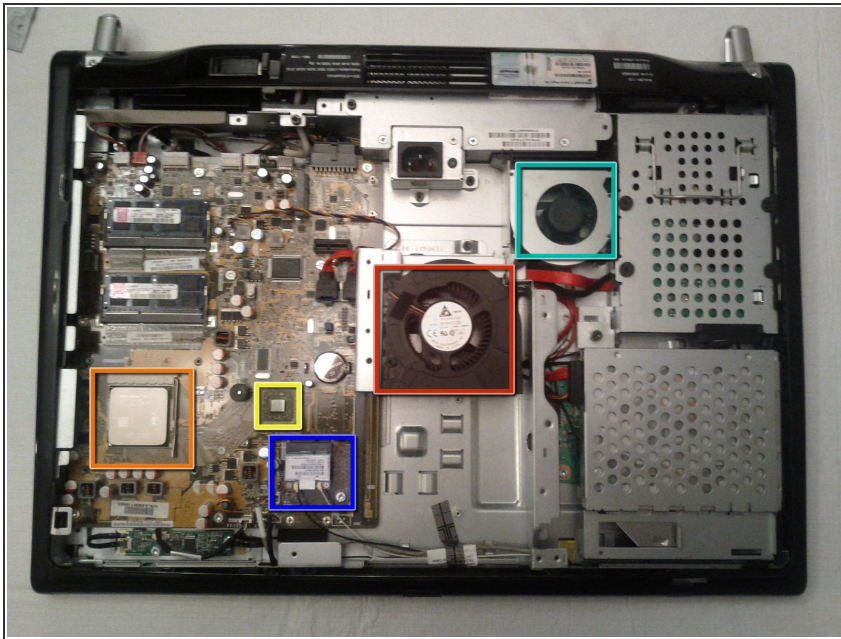
! When remove the CPU heatsink it's best to heat up the heatsink with a blow dryer so the thermal paste heats up. This way you don't rip the CPU out of the motherboard socket.

● Remove the CPU heatsink screws.

i Make sure you do the normal CPU unscrew method. For example, start with the upper left, unscrew just a bit, then go to the lower right and unscrew just a bit. Next jump to the lower left, unscrew just a bit, then next the upper right. Continue this until you can remove it.

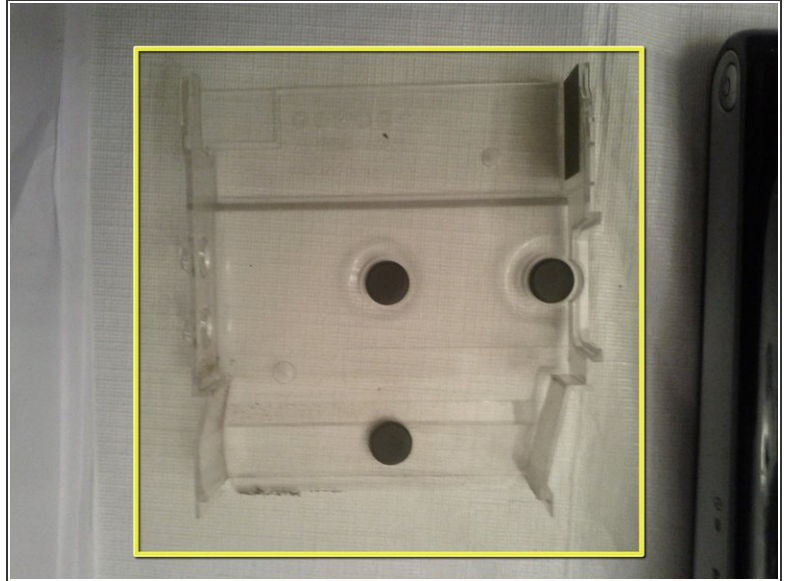
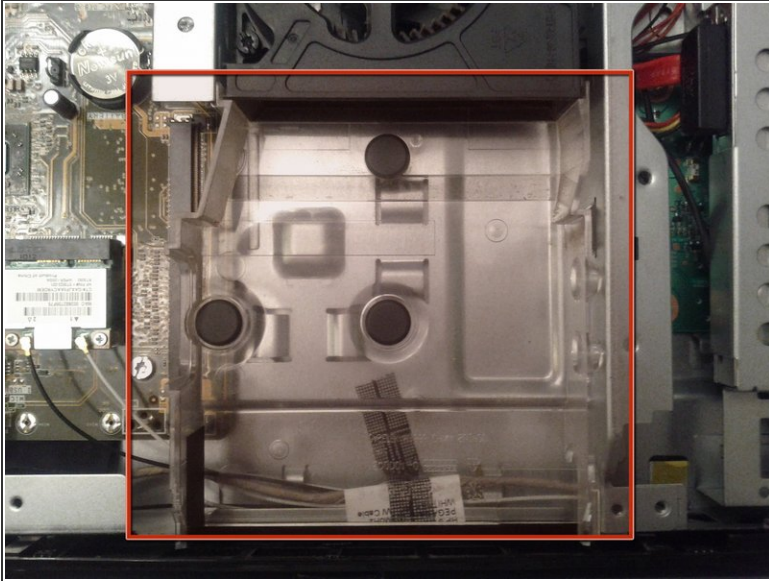
! If the heatsink doesn't easily lift up, heat it up more with a blow dryer. To make sure you don't rip out the CPU. Ripping out the CPU from the motherboards socket could damage the CPU and the motherboard.

Step 12



- CPU after removing the heatsink.
 - GPU after removing the heatsink, aka video card.
 - WiFi mini PCI card.
 - Fan for the CPU/GPU heatsink.
 - Power supply fan.
 - Now you can replace the CPU.
- i** It's best to clean out both fans, if your having overheating issues. Or to prevent it from happening in the future.

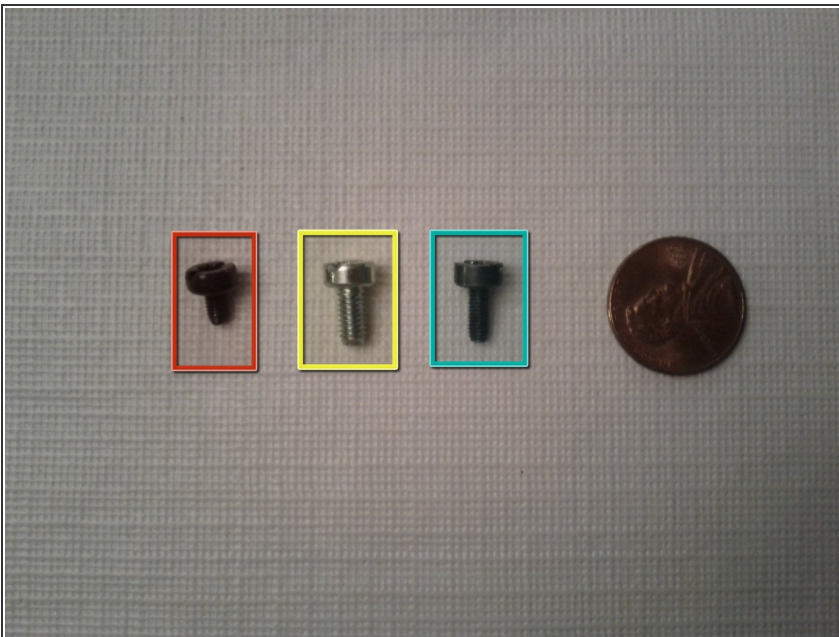
Step 13



i This part is about cleaning.

- There is a plastic tray just below the heatsink fan. This can be removed and cleaned if there is a lot of dust in it.
- Plastic tray once removed.

Step 14



i Types of screws that have been removed. This is to help when putting back together everything.

- TC and CB screws. For the heatsink cover and fans cover metal panels. 11 total
- HB screws. For the kickstand. 4 total
- Screws for the side panels. 2 total
- The penny is to help with scale.

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