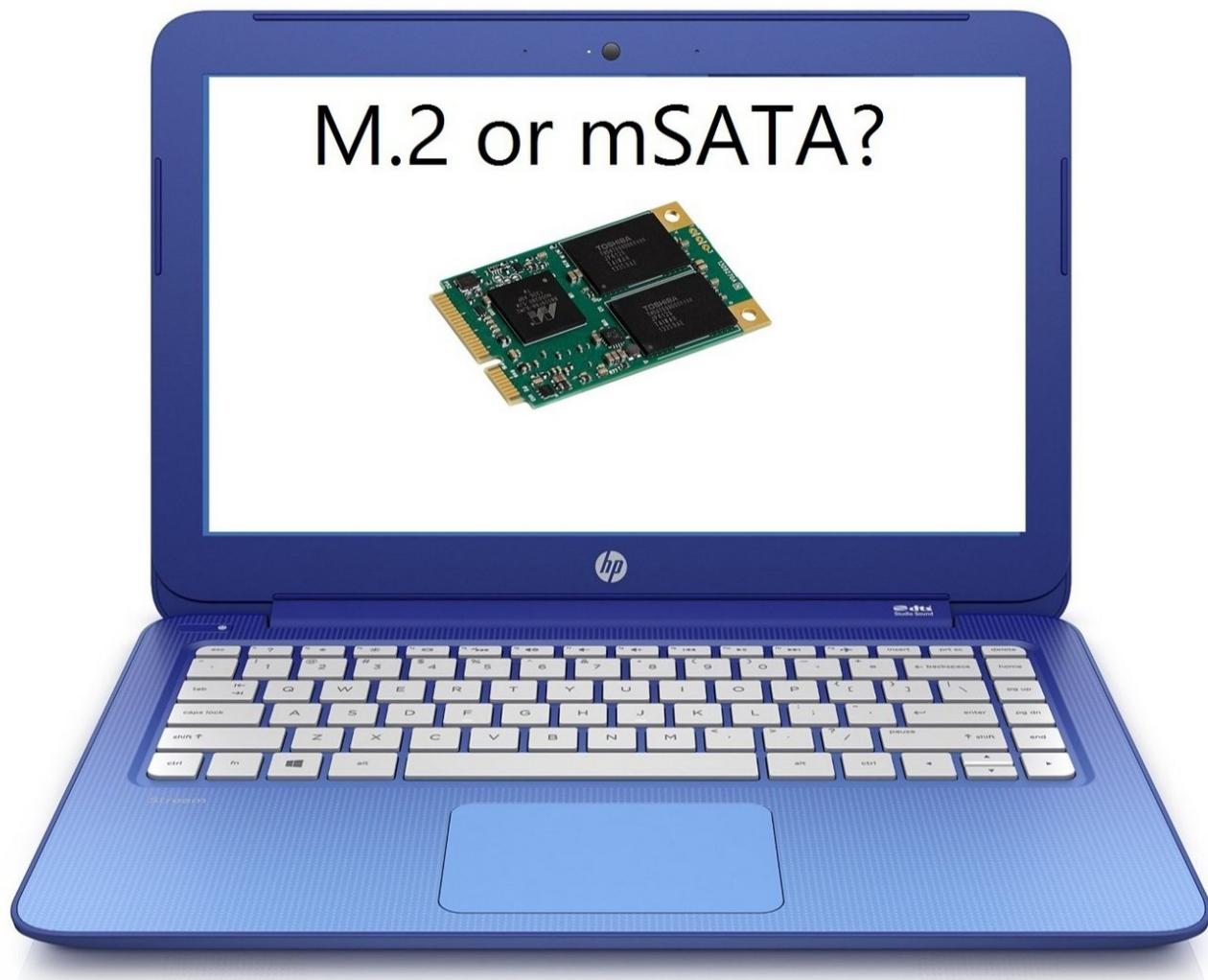




HP Stream 13 Disassembly for Upgrading the PCIe mini SSD

This is a guide on how to take apart your HP Stream 13 laptop and give it a new wifi card or SSD.

Written By: Kevin Fessler



INTRODUCTION

32 GB for a laptop is not much. Contrary to popular belief, upgrading this laptop's SSD is not actually that difficult- it does however mean that you give up your internal WiFi card. As an owner of this laptop, I've fought the Windows 8 and 10 WiFi drivers and was glad to have it gone. My current setup includes a 250GB SSD and an external WiFi card. This guide is designed to help you get ready to do the same!

I will get around to refining it some more if more people are interested in the process.

TOOLS:

- **Philips extra long screw driver** (1)
- **Small Needle Nose Pliers** (1)

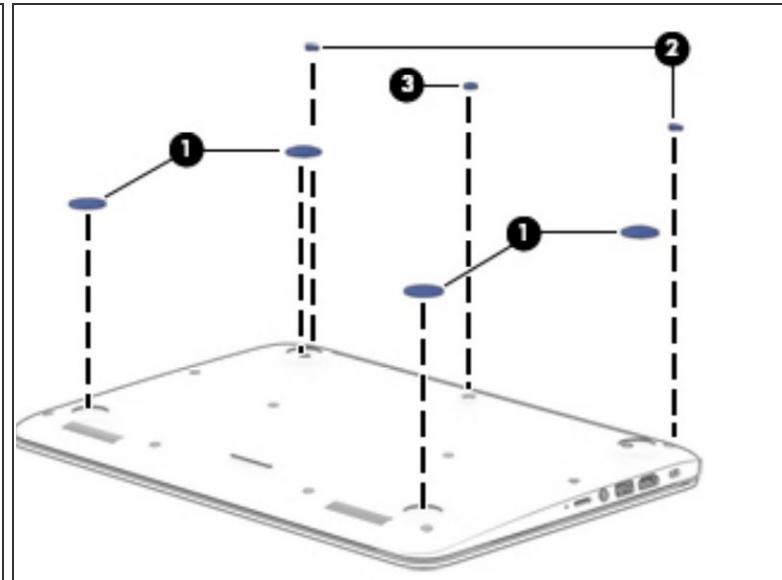
Used for getting into small places

Step 1 — Starting out



- Make sure that you take your laptop apart in an area that has lots of light and are discharged. Touch something to ground yourself **before** starting! Electrostatic damage can fry your motherboard.

Step 2 — Flip laptop over



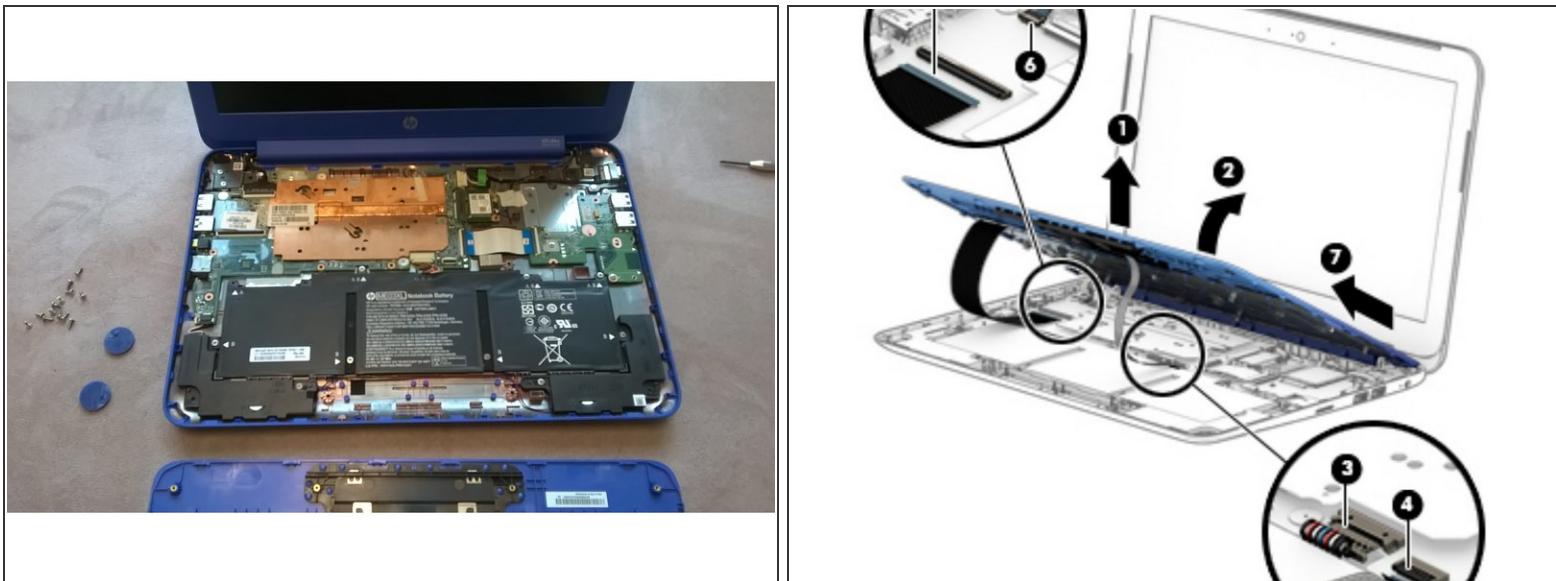
- Flip your laptop over. There are four pads that you need to remove to access the screws. Remove the center pad first as shown in the picture.

Step 3



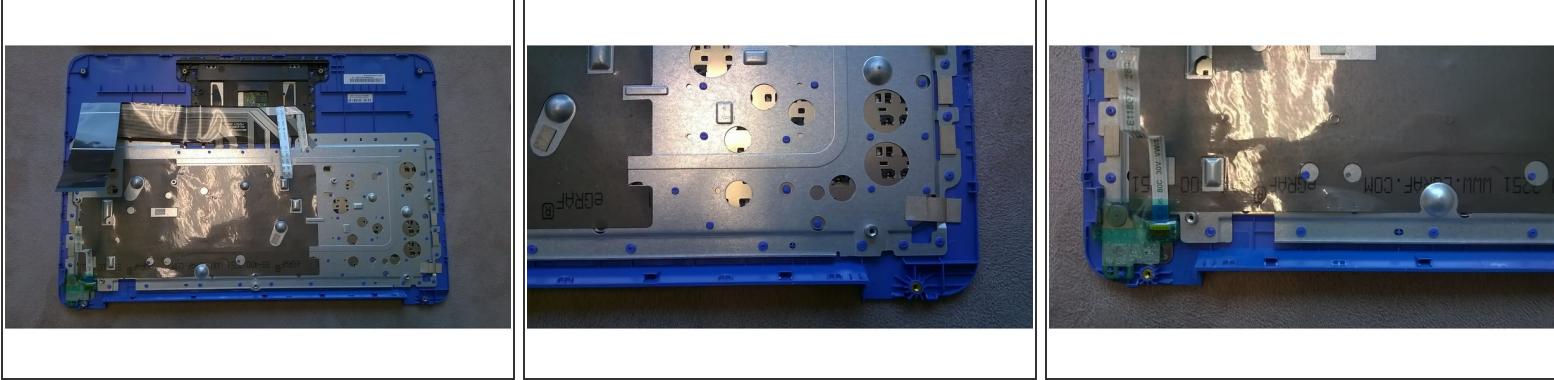
- Beneath each pad is a screw. Make sure you remove all of the pads.

Step 4 — Use a screwdriver to remove the keyboard assembly



- There will be a total of 3 cables to unplug. Flip each ZIF upward to unplug.

Step 5 — Bottom of Keyboard



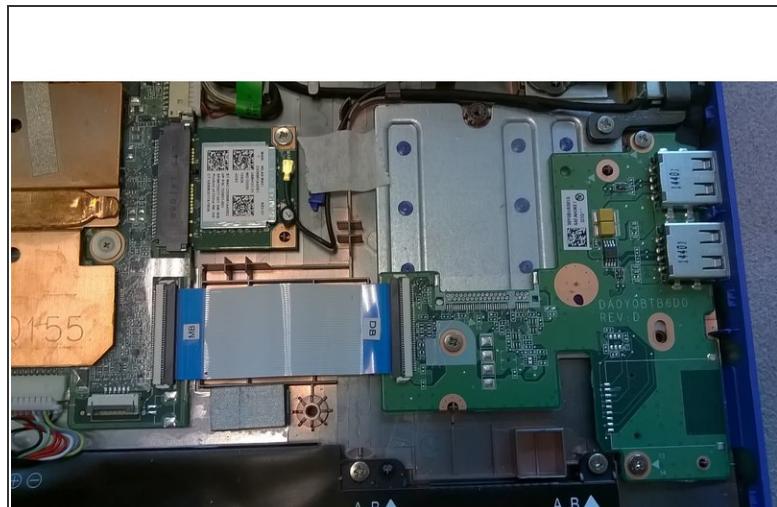
- Insert wisdom here.

Step 6 — Identify the wifi/bluetooth mPCIe card.



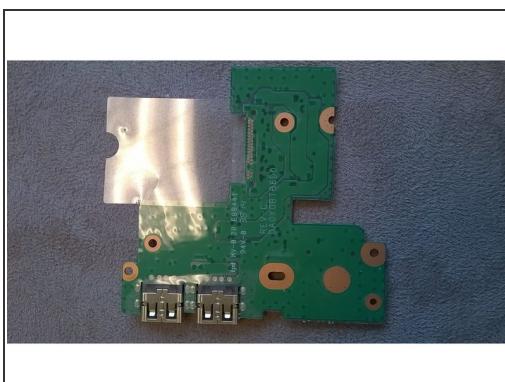
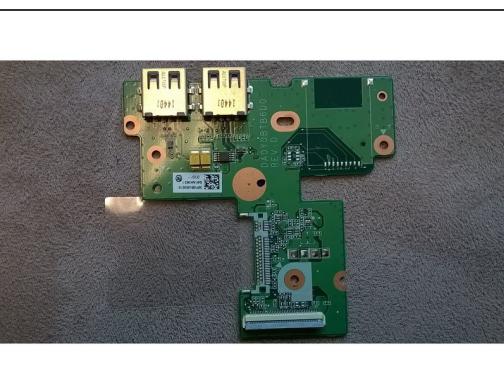
- The WiFi/Bluetooth mPCIe card is located to the right of the motherboard, highlighted with the arrow.

Step 7 — Close up of the WiFi and WWAN ports



- You'll notice that there is a large gap for the WWAN card and no M.2 connection. It is possible to extend the mPCIe card and remove the WiFi card completely. Another option might be to purchase a board with an M.2 WWAN card and swap it out with an SSD. Unfortunately these are quite rare.

Step 8 — USB / WWAN Board



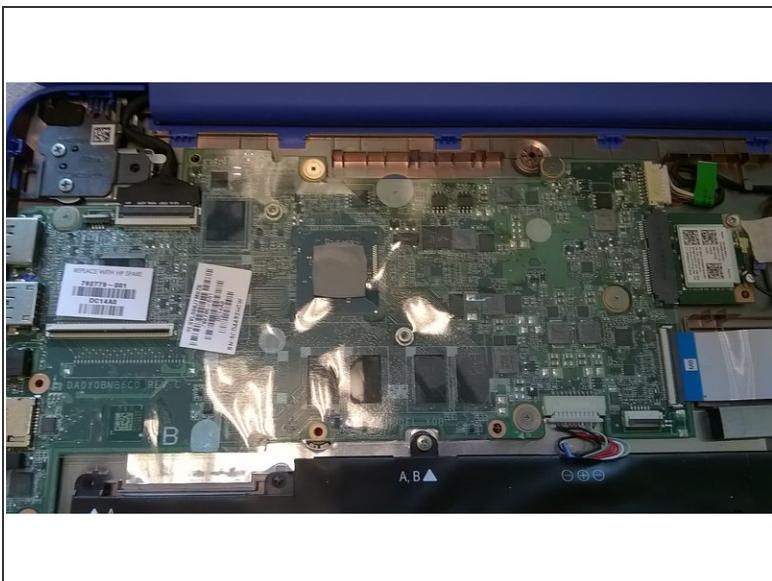
- A close up of the USB WWAN Board.

Step 9 — mPCIe Card



- As stated before, you can swap this card out with a *half-width* PCIe SSD found on Amazon or other electronics retailers.

Step 10 — Replace thermal paste



- A common issue might be heat dissipation, so it's good practice to remove the stock thermal paste and replace it with better quality. I also recommend adding heat pads to the bottom of the copper heatsink where the RAM chips sit.

Step 11 — Put it all back together.



- Follow the steps in reverse to put your HP Stream back the way you found it!

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