

**Linda Calderone's Instructions:
Reseating the SD Card or Replacing the KNK Raspberry Pi2 Board
Compiled by Sandy McCauley
November 23, 2016**

Below are the steps required to remove the Pi2 Raspberry card from the Force.
Some screws may be tight and more difficult than others to remove.

STEP 1

1. Move blade holders all the way to the left.
2. Unplug
3. Disconnect power supply from the Force
4. Remove USB Wireless adapter
5. Remove 6 screws from the bottom (baseplate) of your machine.

Note:

***4 screws circled red have washers, take care to keep together!
2 screws (circled blue) have the front legs attached***

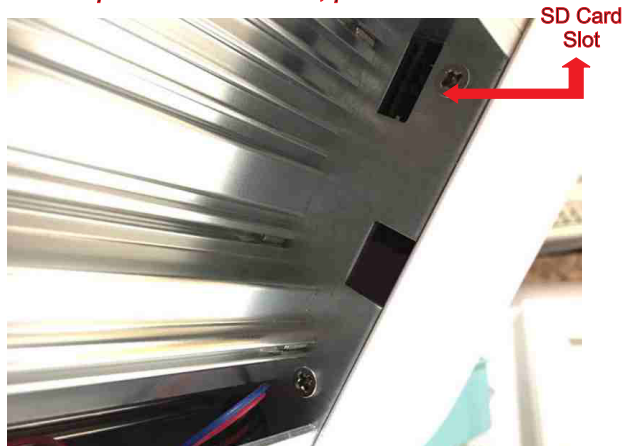


STEP 2

1. Remove Bottom Plate (the right panel is now exposed)

Note:

The square opening at the top is the SD Card Slot. If the SD Card needs to be reseated this is your final step. Push to release, push in to reseat.



STEP 3

Removing the Side Panel

Note:

A total of 4 screws must be removed

(2 on the front of the panel)

(2 on the back side of the panel)

1. Remove 2 screws on the front of the Side Panel



STEP 4

Removing the Side Panel (Screw #3 and #4)

1. Remove 3rd and 4th screw (circled red below)

Note:

Including this screw with the 2 removed from the front side of the Side Panel you should now have 4 screws.



STEP 5

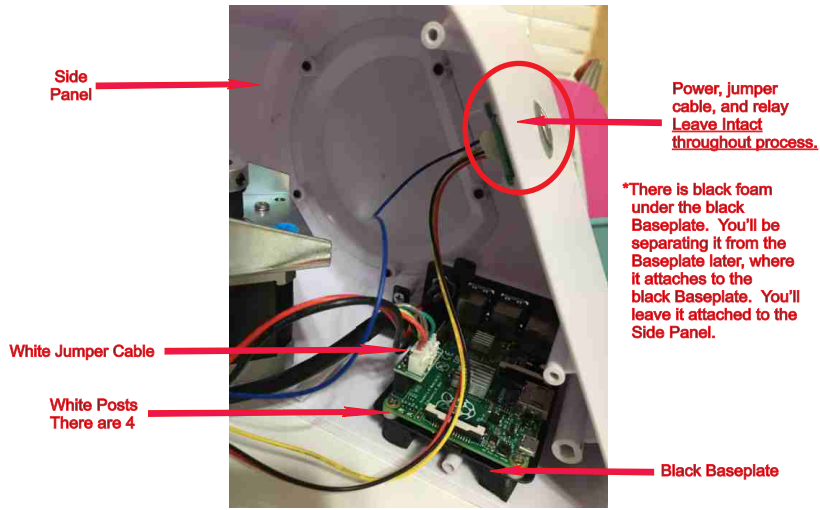
Remove the Side Panel

Note:

If you look closely, only 1 Jumper Cable is attached to the Raspberry Pi Board.

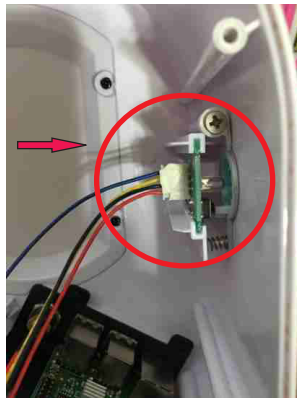
**Take a mental note of the orientation in relation to the Pi board!*

**You will need to reattach in the same orientation and location on the row of pins when installing your new Raspberry Pi3, or a Pi2 replacement.*



AWE & Information: the jumper cable is attached to a circuit board that fits over the first set of pins. The pins it fits over are programmed to allow the circuit board to run the camera, power supply, motor, and components required for our Force. This setup is ingenious! Imagine the setup and programming expertise needed to make our wonderful Force work! Sometimes we ask, "why does it takes time to get updates?". Only visualizing the Raspberry Pi and the additional teeny board that attaches to the pins should answer that question, an eye opener for sure! Thank you Team KNK! You ROCK!

This photo shows where the power supply and relay connections are attached to the top of the side panel
Do No Disturb or Remove cable, wires, or screws at anytime!



STEP 6

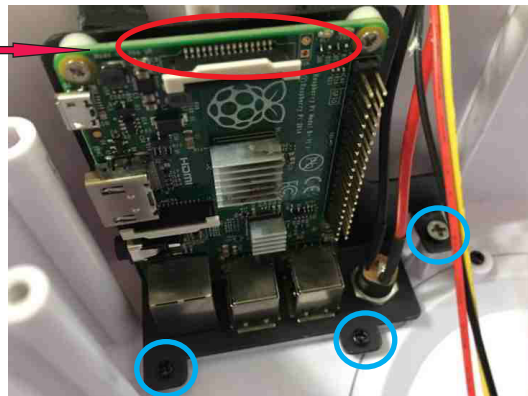
Detaching the Raspberry Pi from the black Baseplate

1. Remove 3 screws, circled blue, to free the Raspberry Pi from the black Baseplate

Note:

There are a total of 4 screws that need to be removed from the Raspberry Pi board. We need to free the Raspberry Pi from the Baseplate to access 2 of the 4 screws holding the Raspberry to the black Baseplate we have to remove the black Baseplate.

The Jumper Cable removed earlier was attached to the pins shown here.



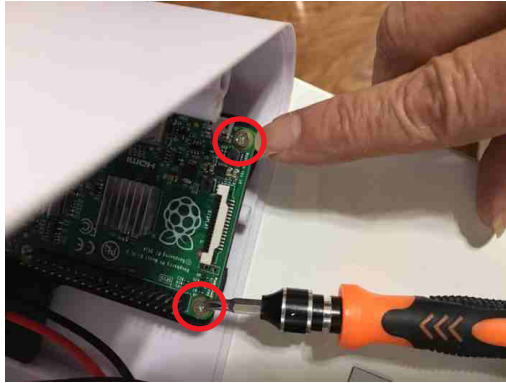
STEP 7

Free the Raspberry Pi from the black Baseplate.

1. Remove the 2 screws, circled red.

Note:

The black Baseplate cannot be seen here, I've already separated the Raspberry Pi from it. I'm only showing you where they are located in relation to the side cover. Again, you can see why the black Baseplate has to be removed. They're not visible when attached to the Baseplate!



STEP 8

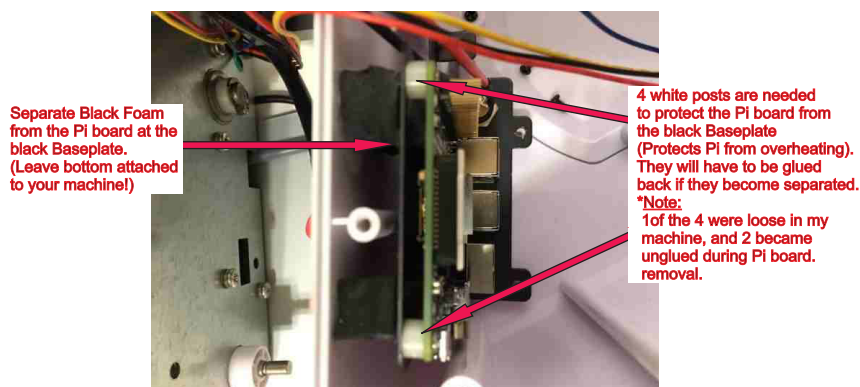
Detaching the Raspberry Pi from the black Baseplate

1. Remove 3 screws, circled blue, to free the Raspberry Pi from the black Baseplate
 2. See last FIGURE, end of page, for instructions on separation of the black foam piece attached to the black Baseplate and Side cover.
- Also see, 4 white protective posts needed to protect your Pi board from getting overheated!!!

*The black foam must be separated from the Side Cover and black Baseplate to remove the last 2 screws and free the Raspberry Pi board



FIGURE: Black Foam & White Posts



Reverse this process to install your new Raspberry Pi board.

***WARNING!** The Raspberry Pi gets hot! Failing to secure the white risers will fry your Raspberry board and a fire hazard!!!