Improved Pi-top instructions

- Spread out, use box one half of box to hold parts, other half to build over. By assembling over box, if one of the small screws falls it is much easier to find it than on the carpet!
- Don't hesitate to ask one of us for help or questions

Overview of parts

## Step 1: Prepare Printed Circuit Boards (PCBs)

- The rectangular one, the Raspberry Pi 3, will be the brains of our computer. It is what does all of the processing.
- The boot shaped one is the pi-top HUB. It controls interaction between Raspberry Pi and the hardware components of the laptop we will be building.

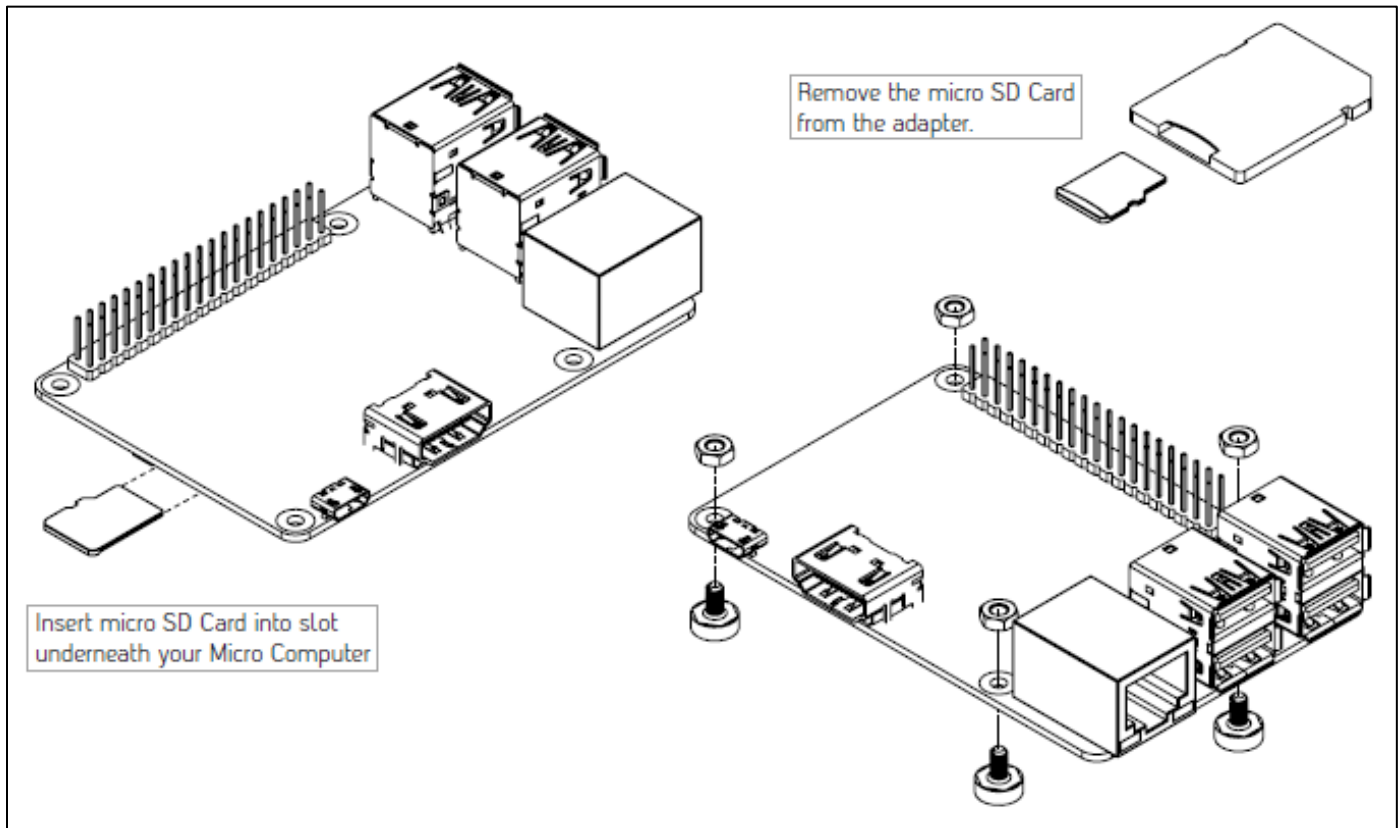### Step 1.1: Add spacers to pi-top HUB

Brass spacers go on bottom and hand tighten.

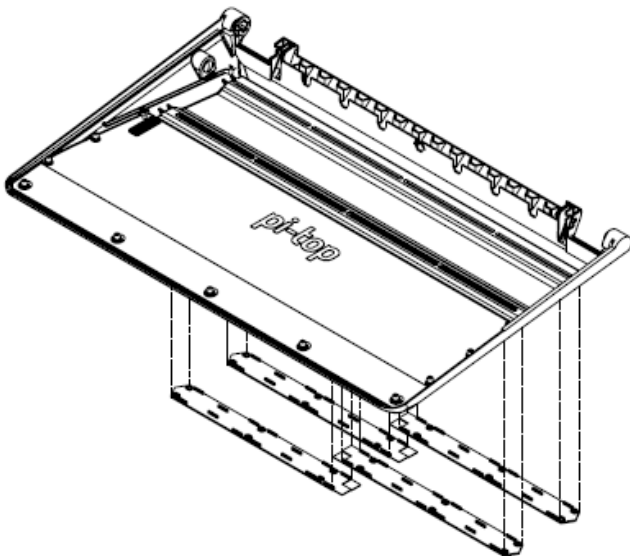Note there will be a hole left empty at the "toe" of the boot.
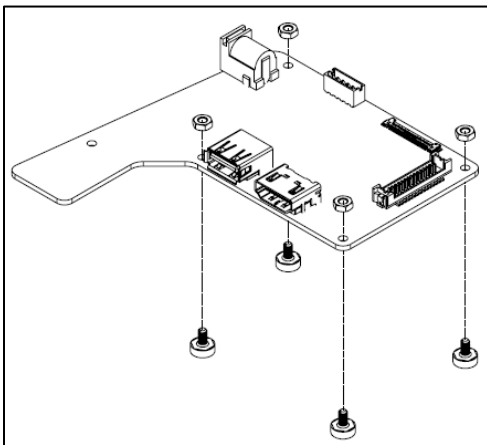
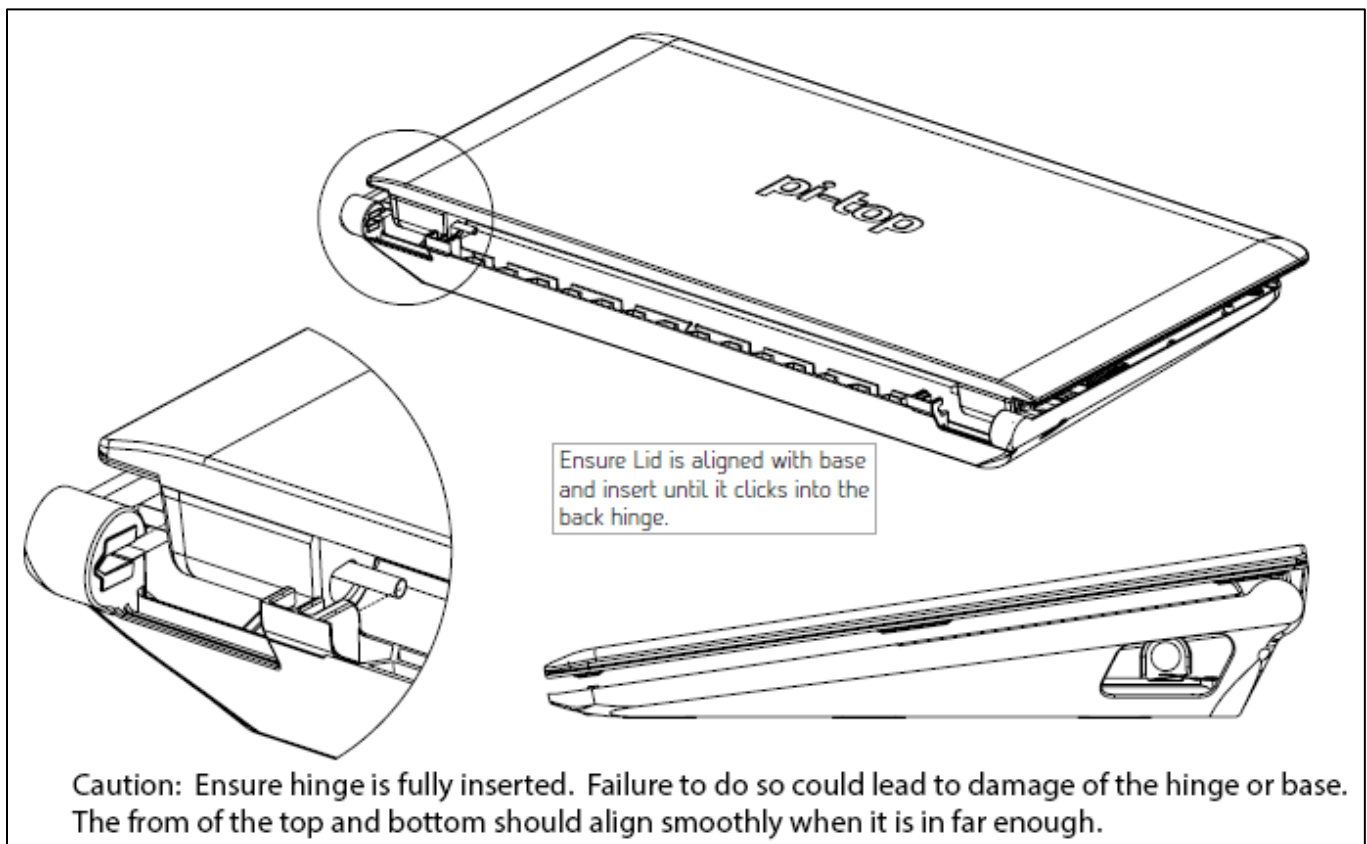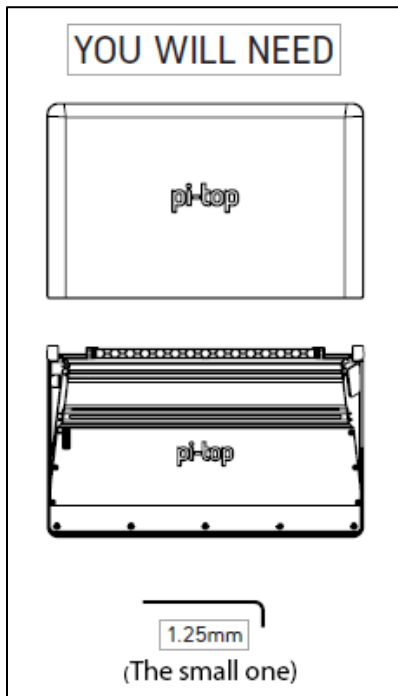## Step 1.2: Add micro SD card to bottom of Raspberry Pi and spacers
Brass spacers go on bottom and hand tighten.

Remove the micro SD Card from the adapter.

Insert micro SD Card into slot underneath your Micro Computer

Step 2: Remove rail covers

pi-top

Step 3: Attach lid

pi-top

pi-top

1.25mm
(The small one)

pi-top

Ensure Lid is aligned with base
and insert until it clicks into the
back hinge.

Caution: Ensure hinge is fully inserted. Failure to do so could lead to damage of the hinge or base.
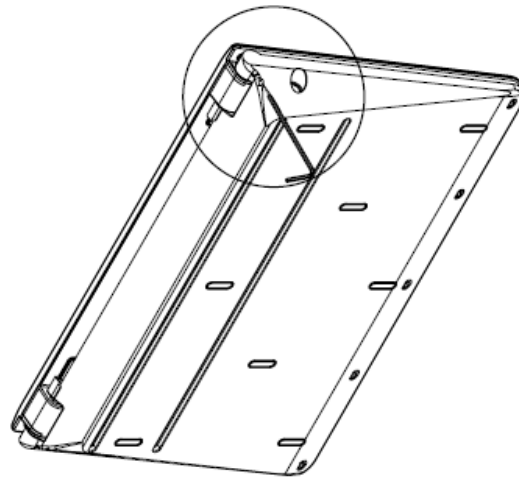The from of the top and bottom should align smoothly when it is in far enough.

Tighten the screws on the bottom gently. (The screws are already in the two holes.)
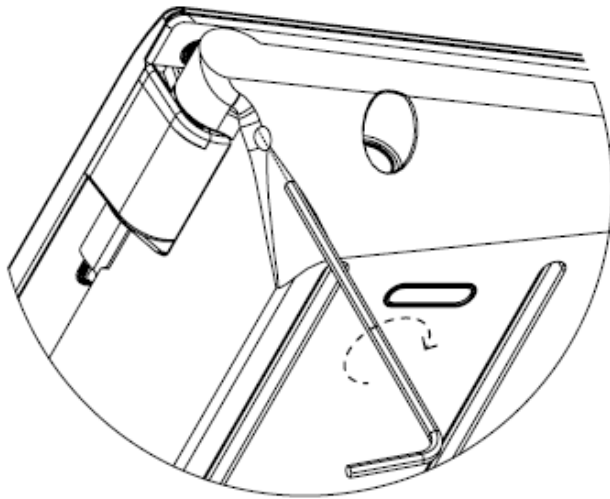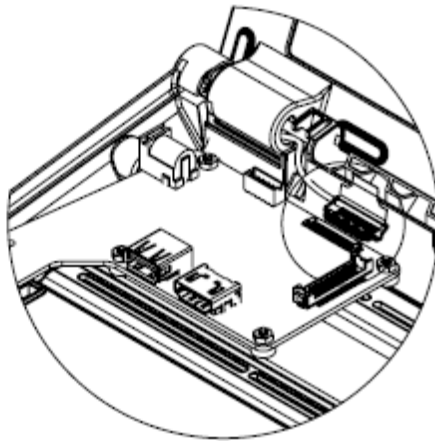
Keep the Lid aligned as you gently tighten screw.

After tightening, make sure the top and bottom are still aligned smoothly and if so go ahead and open your pi-top.

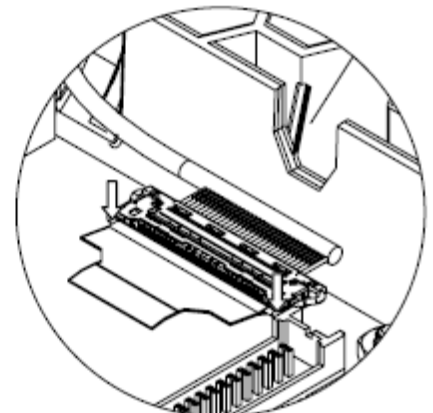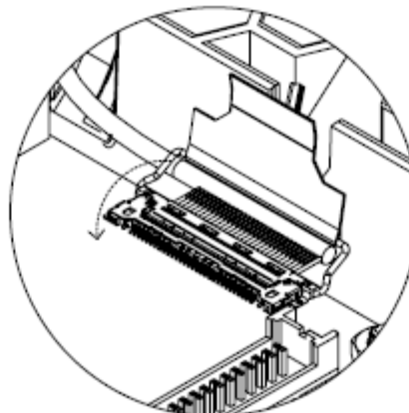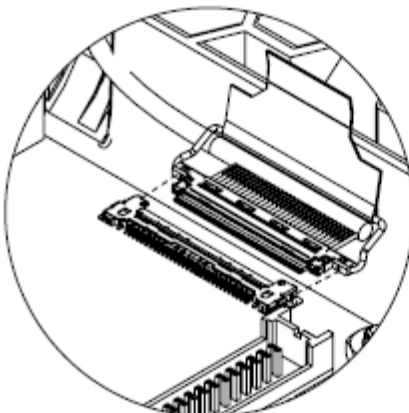# Step 4: Connect display and secure HUB

First – Connect the screen cable

Align and insert

Rotate locking bar

Gently push down on both sides until it clicks and is secured

Caution: Take extra care to properly align and do not use excessive force.

Then secure the pi-top HUB

First align and press down battery connector spigot firmly then tighten screws
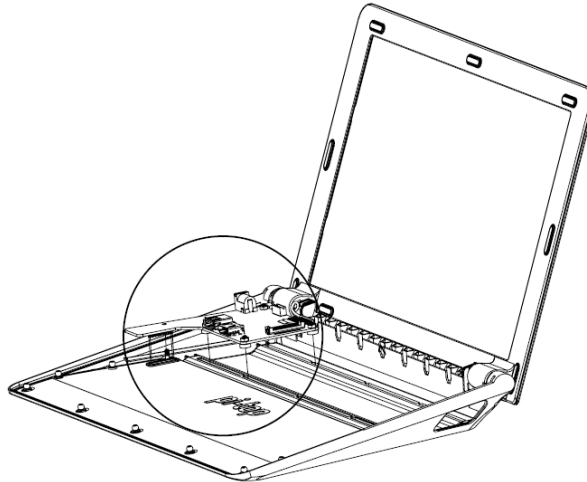
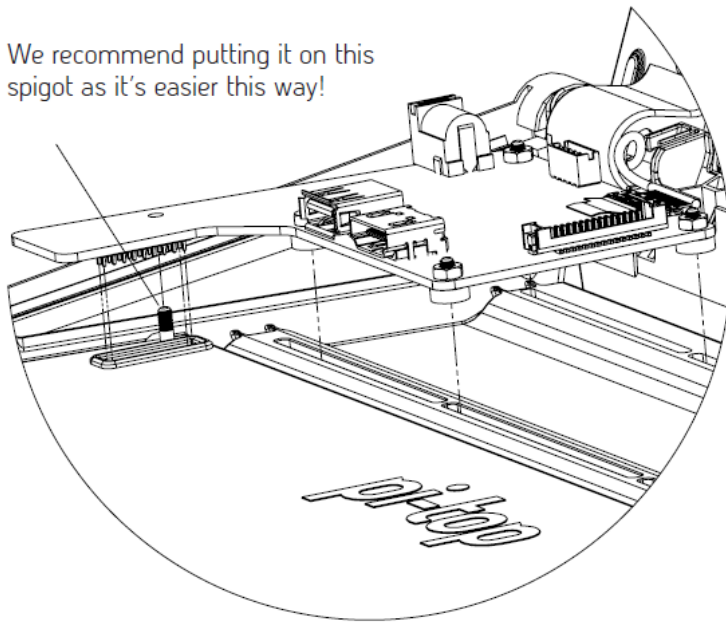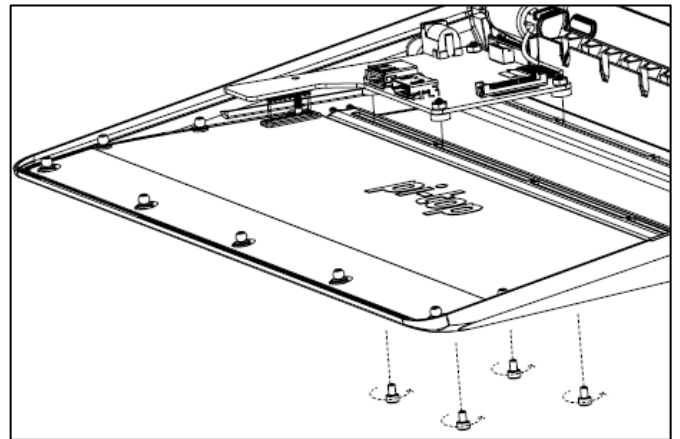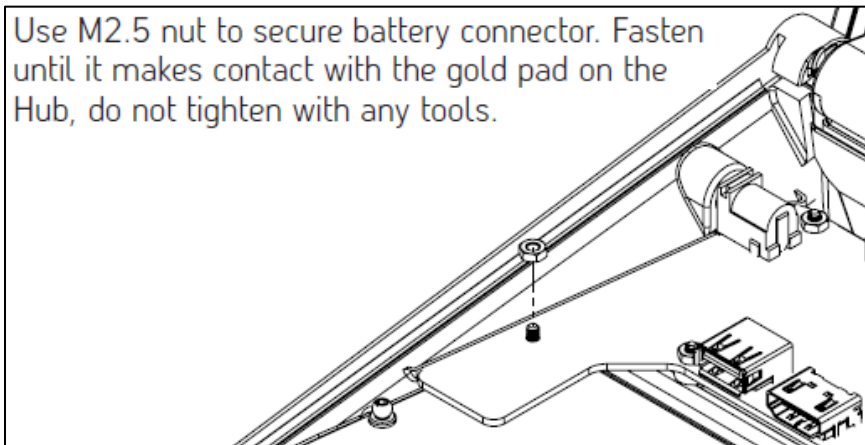**YOU WILL NEED**

(Silver)

x 4

2mm
(The larger one)

We recommend putting it on this
spigot as it's easier this way!

While keeping the left-side of the Hub
aligned to the Base, press down on the
battery symbol on the Hub until you feel
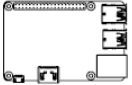the connector insert fully into battery.

Use M2.5 nut to secure battery connector. Fasten
until it makes contact with the gold pad on the
Hub, do not tighten with any tools.

Step 5 – Attach Raspberry Pi

- The 3 boxes on top of the Raspberry Pi face out.
- Do no tighten the screws too much as we will be sliding the Raspbery Pi on the rails in the next step.
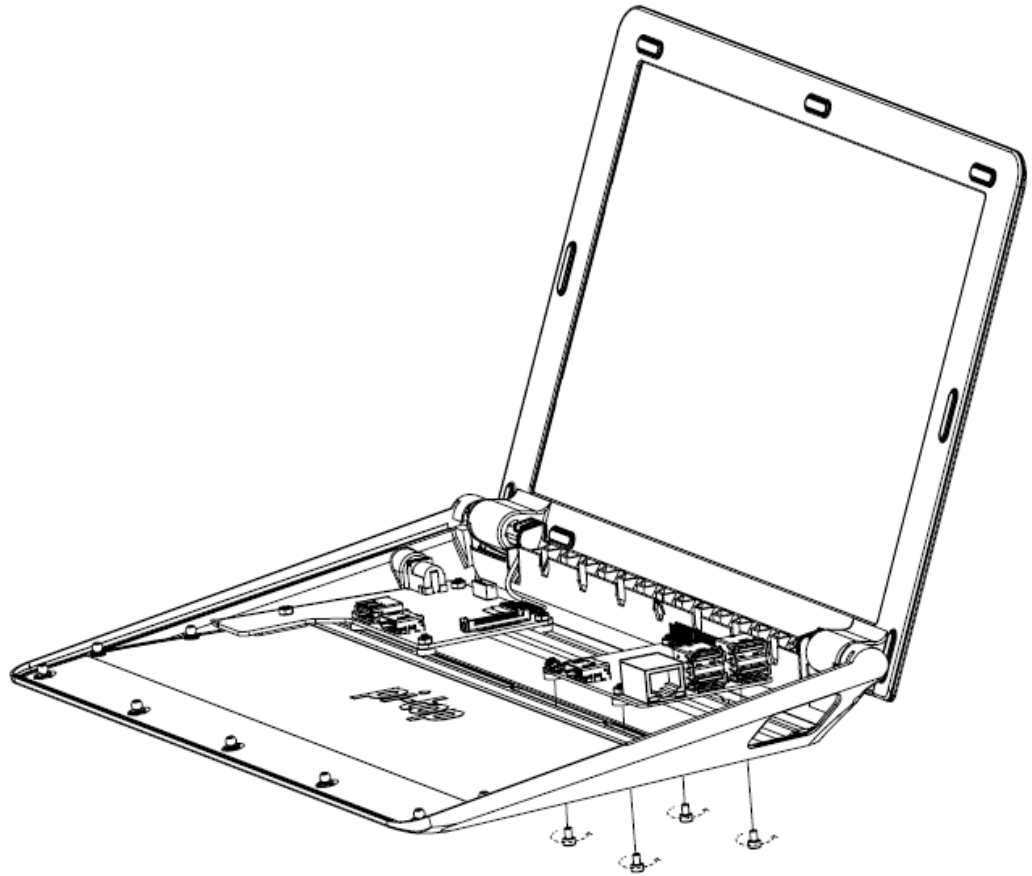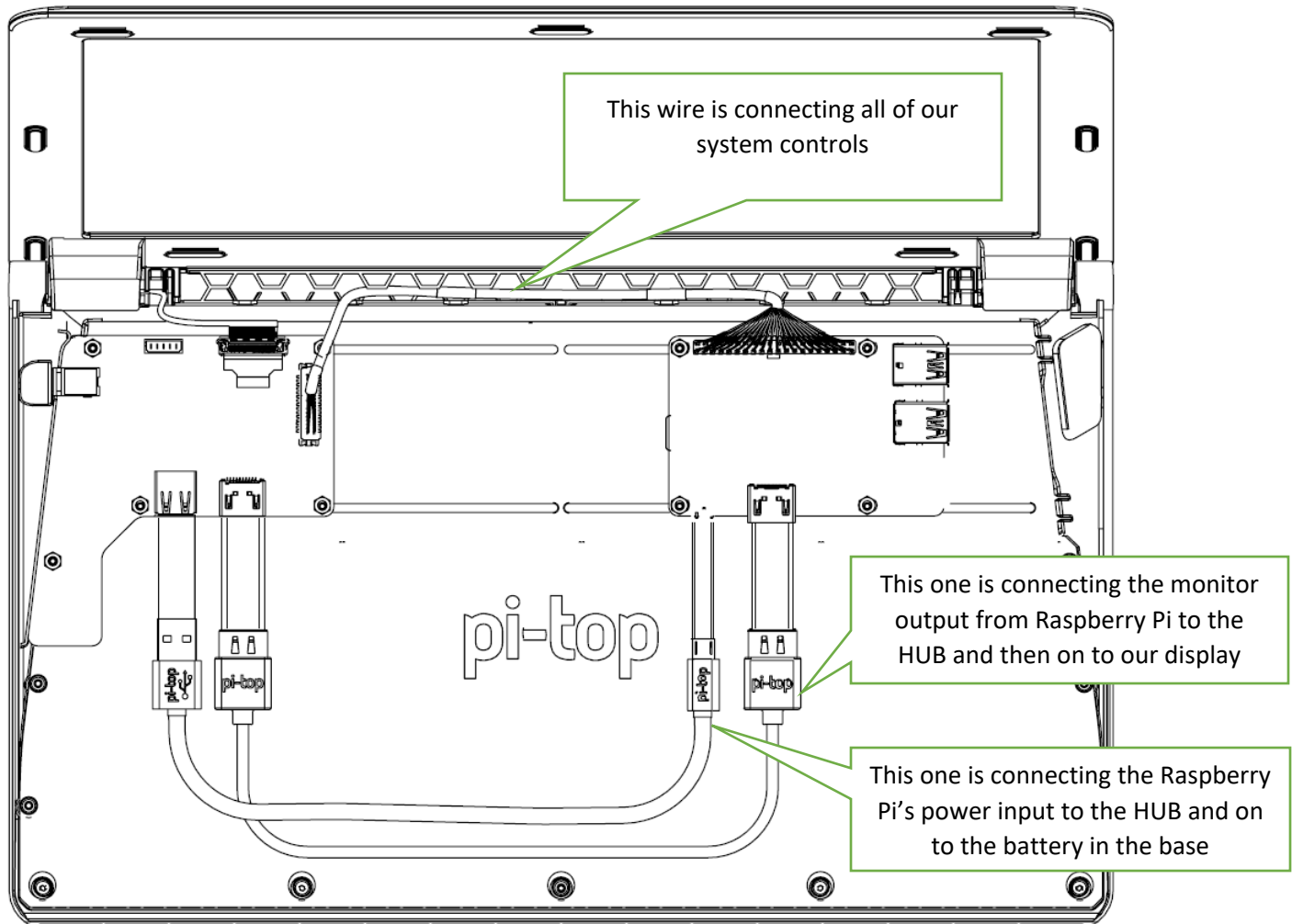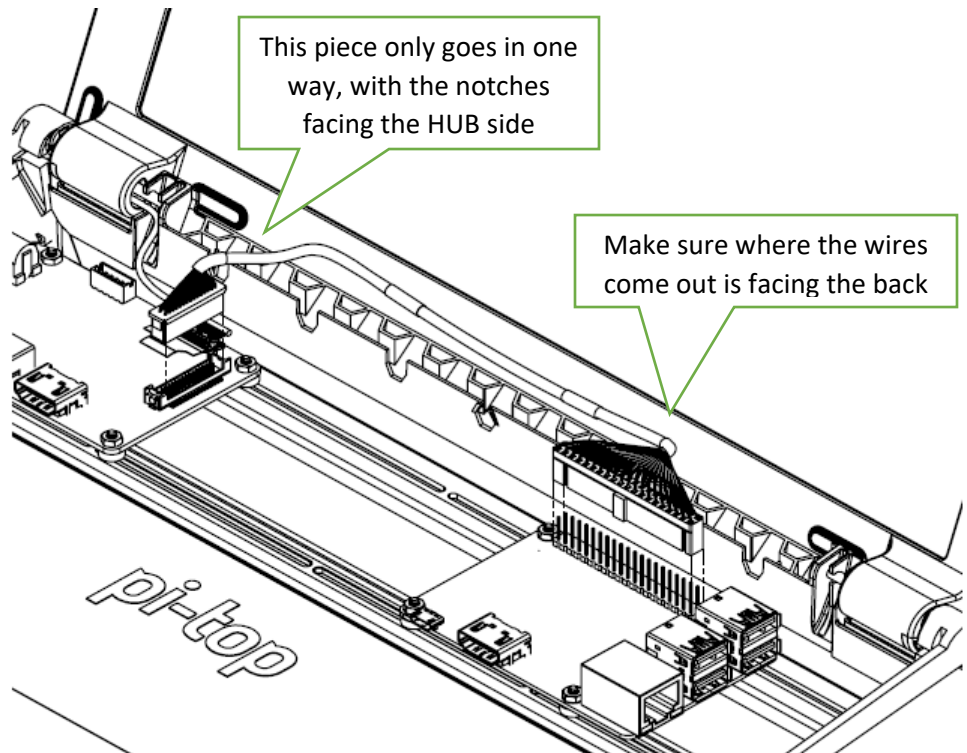
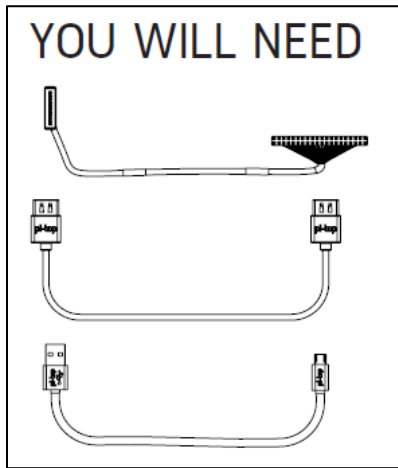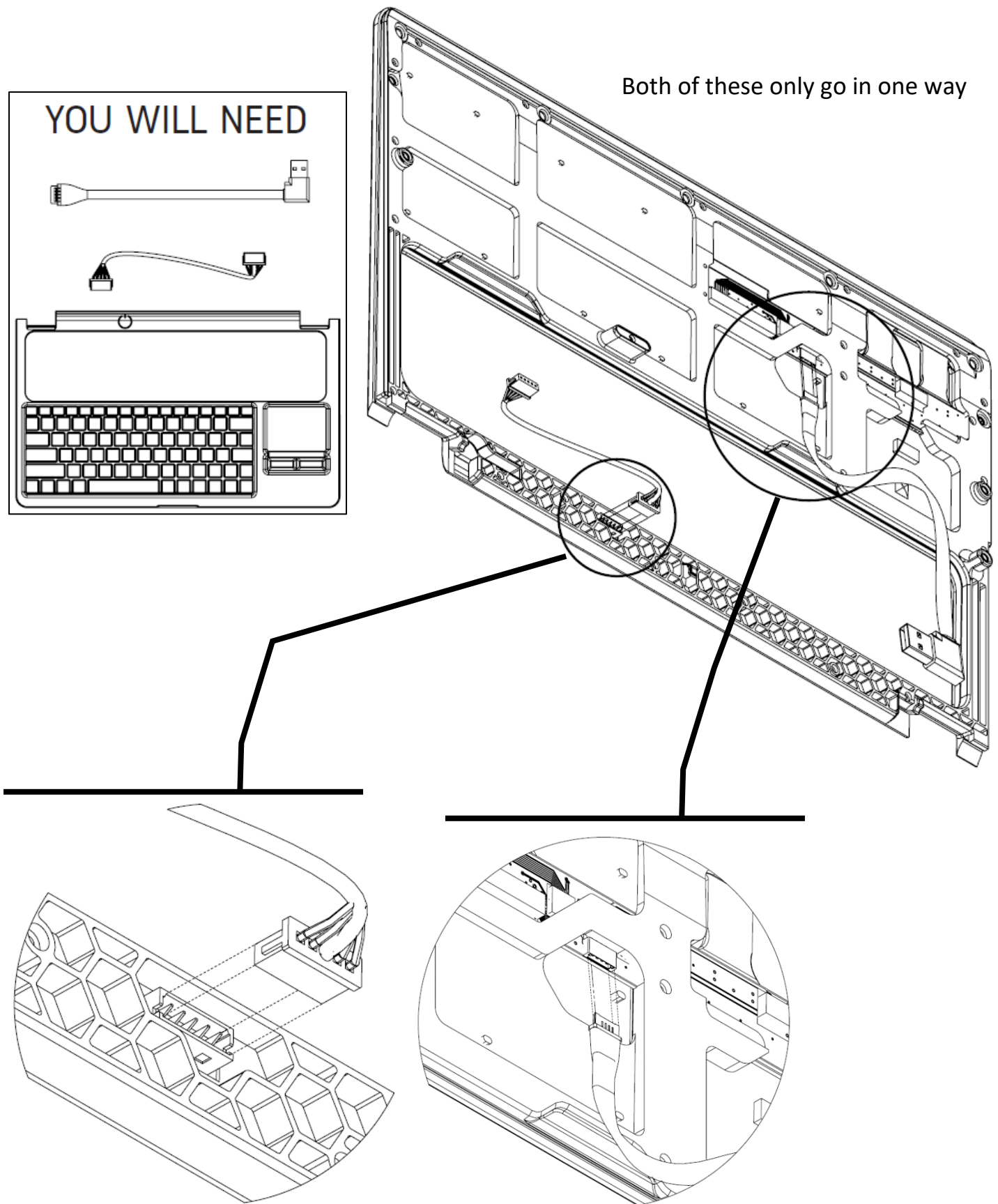## YOU WILL NEED

PCB SCREWS
(Silver)

x 4

2mm
(The larger one)

Caution: Over-tightening may damage PCB spacers – gently tighten until they just grip the Base.

Step 6 – Attaching the cables

This piece only goes in one way, with the notches facing the HUB side

Make sure where the wires come out is facing the back

YOU WILL NEED

This wire is connecting all of our system controls

This one is connecting the monitor output from Raspberry Pi to the HUB and then on to our display

This one is connecting the Raspberry Pi's power input to the HUB and on to the battery in the base

pi-top

Step 7 – Preparing base top

YOU WILL NEED

Both of these only go in one way

Step 8 – Attaching Base Top

YOU WILL NEED

pi-top

*Tip: The Acrylic Slice is wrapped in brown protective paper, remove before use..
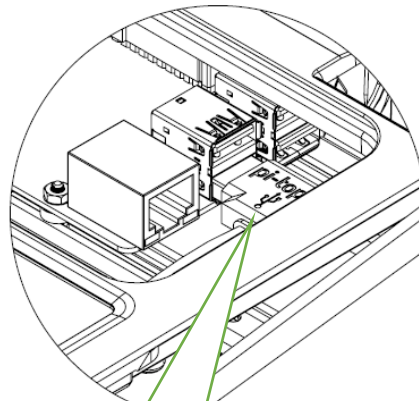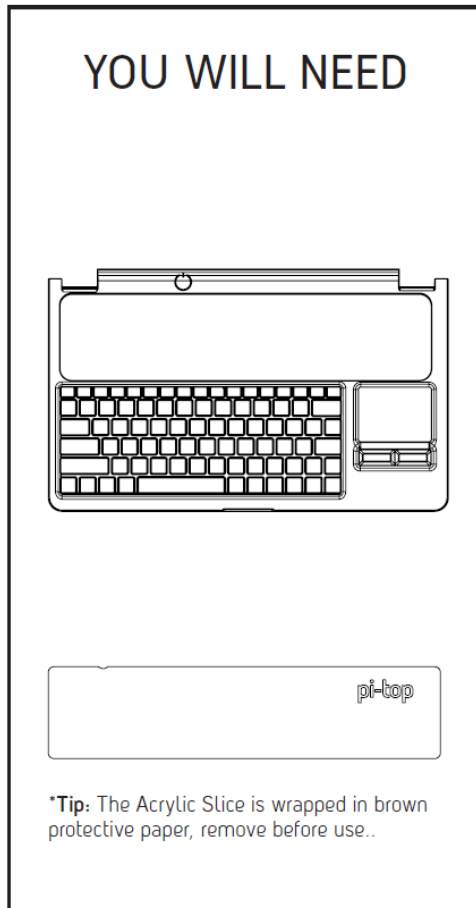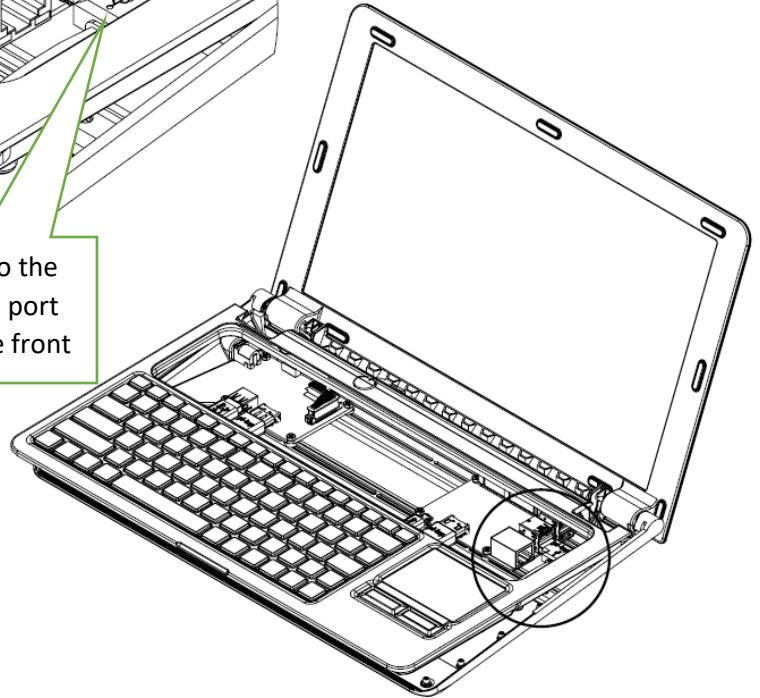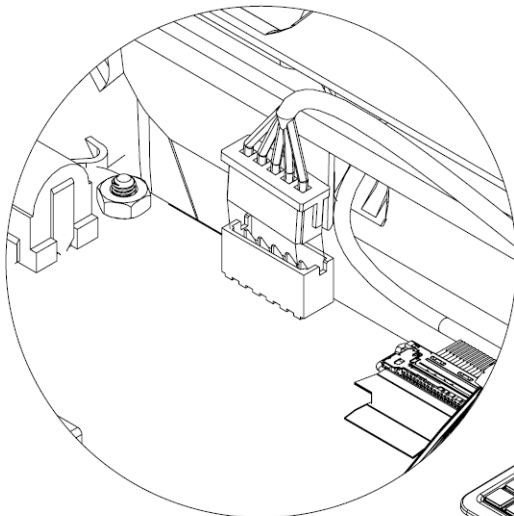
Insert the Keyboard USB cable.

Connect it to the bottom USB port closest to the front
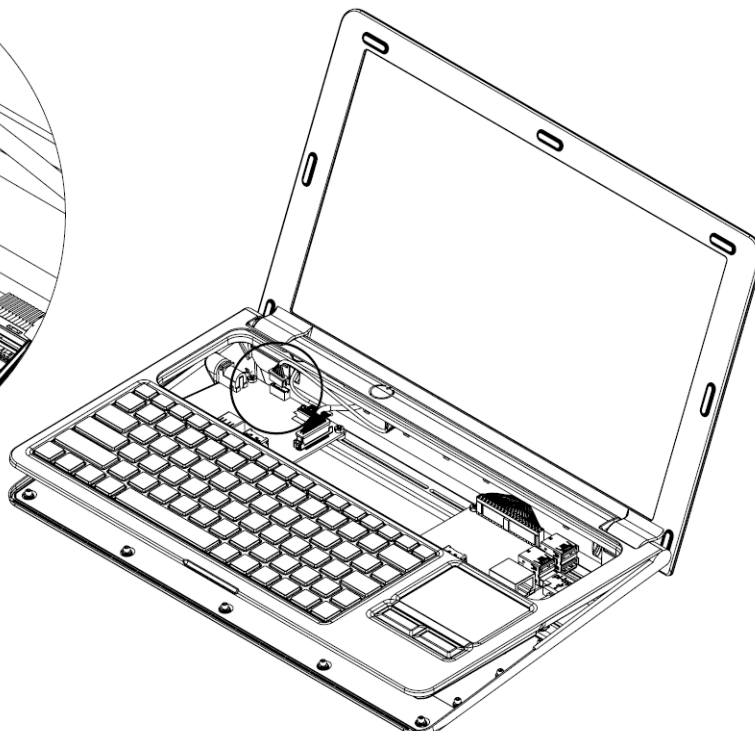
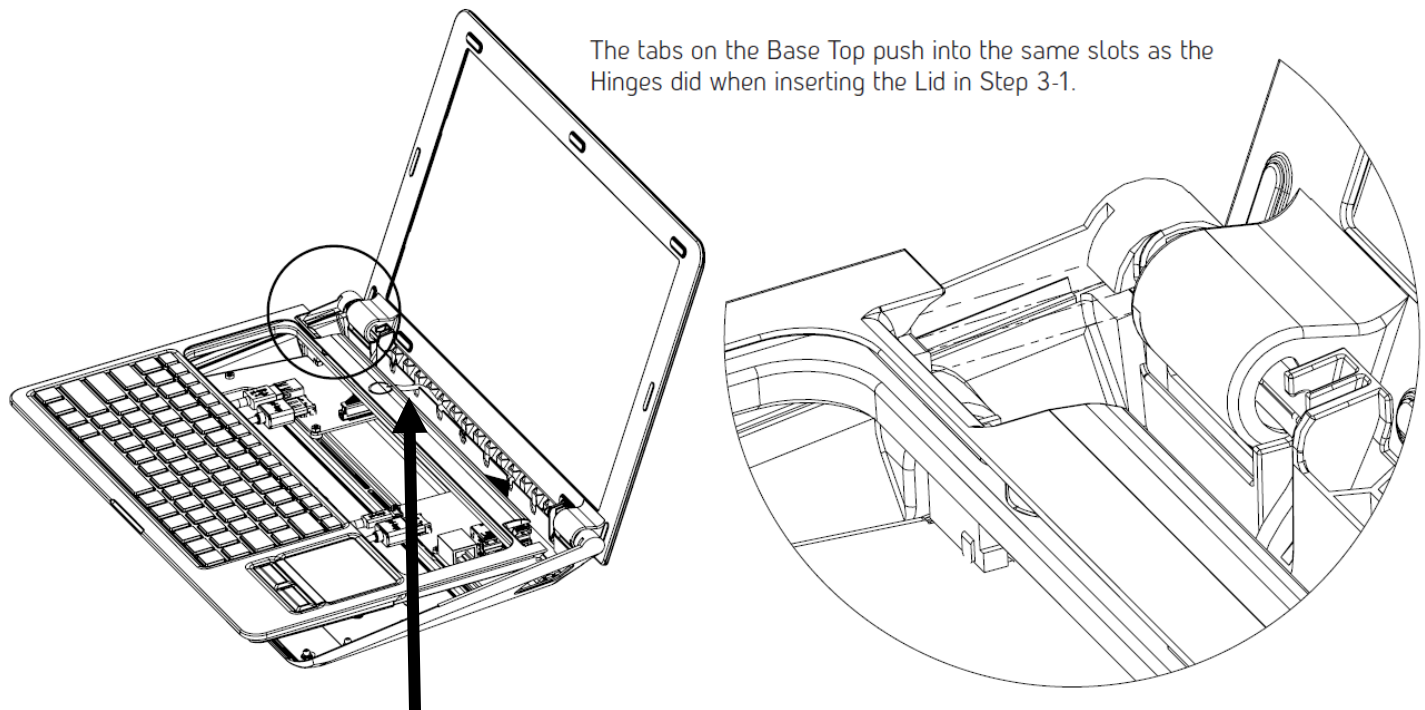**NEXT NOT IN ORDER OF INSTRUCTIONS, BUT MUCH EASIER**

Next insert the power control cable

Insert Power Control Cable into Hub.

Now insert base top – be sure that the power control cable is in the slot in the back of the laptop or your laptop will not close correctly

The tabs on the Base Top push into the same slots as the Hinges did when inserting the Lid in Step 3-1.

Be sure that the power control cable is in the slot in the back of the laptop or your laptop will not close correctly

BEFORE THE NEXT STEP HAVE AN INSTUCTOR EXAMINE YOUR LAPTOP, AFTER YOU PUSH DOWN THE KEYBOARD IT IS DIFFICULT TO REMOVE IT AGAIN

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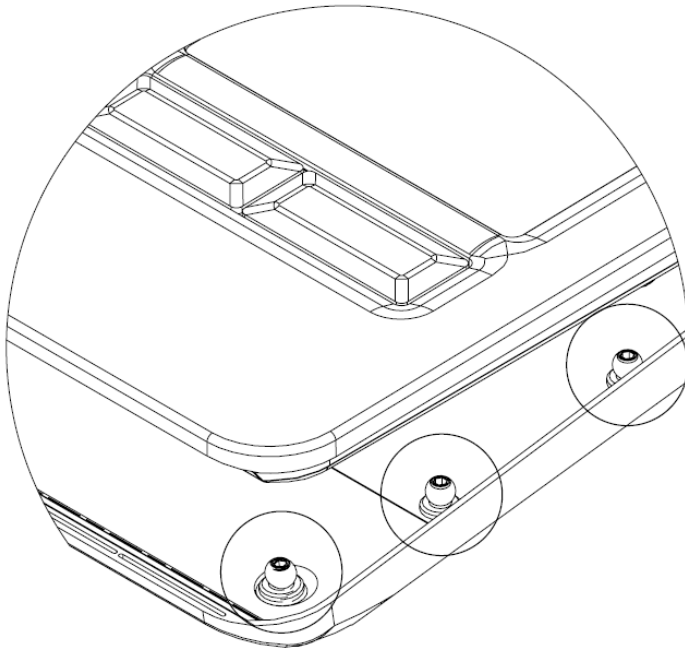
Ball Headed Screws

Once Base Top is aligned and in position, it can be pushed down to pop onto the Ball Headed Screws. Each ball position should be squeezed together to ensure it has popped into place.
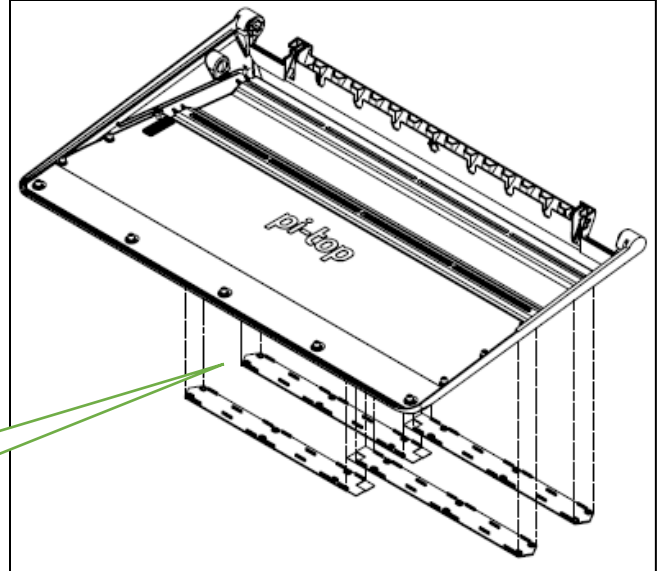
ONCE THE KEYBOARD IS PUSHED DOWN IT IS VERY DIFFICULT TO TAKE IT BACK OFF WITHOUT DAMAGING THE LAPTOP SO HAVE AN INSTRUCTOR CHECK YOUR LAPTOP BEFORE DOING THIS STEP
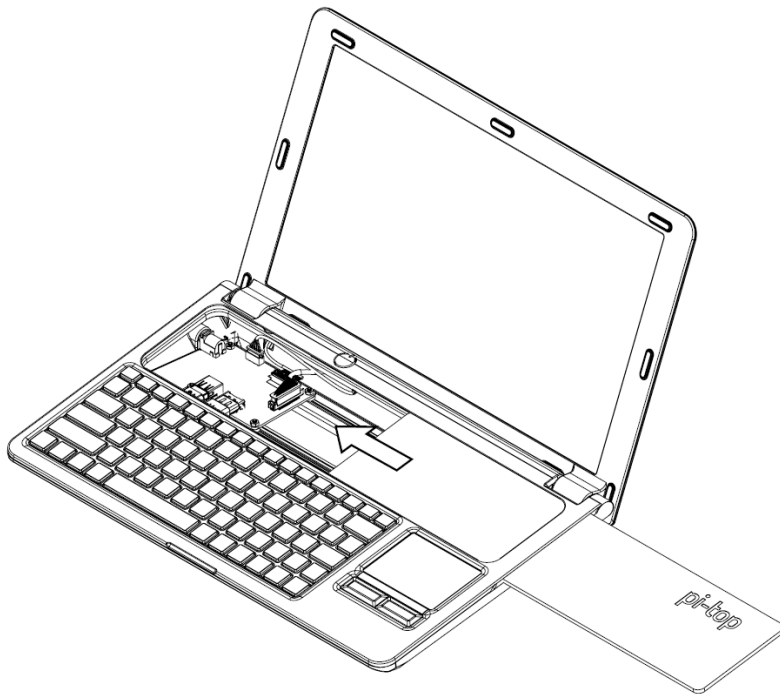
Now finish tightening the screws securing the Raspberry Pi on the bottom, then reattach the rail covers
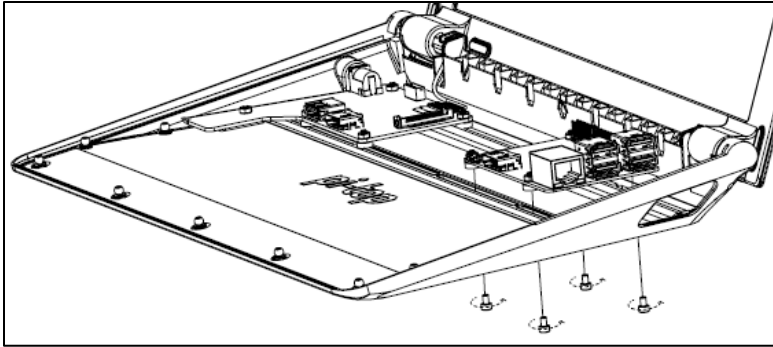
Position the two rails with the rubber feet in the outside rail

Remove the brown protective paper from the Acrylic slice and insert

Congratulations you have built a pi-top!