pi-top

INSTRUCTION MANUAL

Welcome

Welcome to the **pi-top** family!

pi-top is very special to us (and so are you, of course!).
We are hugely passionate about this product and are thrilled to provide excellent content so you can learn to make anything. Your support has helped to make this a reality and we thank you for joining us on this exciting maker journey!

We believe **pi-top** is the best way to get started with hardware and software. Open up your box and immediately immerse yourself in a new way of exploring computing - unlocking a world of possibilities. As you grow and learn, **pi-top** will be part of your journey to expand your knowledge - the only limit is your imagination!

So, let's get started! We've kept the manual simple, with a focus on easy image-based instructions. After assembly you can immediately log-in and start your own cool projects, play our educational game **CEED**universe and more!

Step through the world's gateway to technology.

With love,

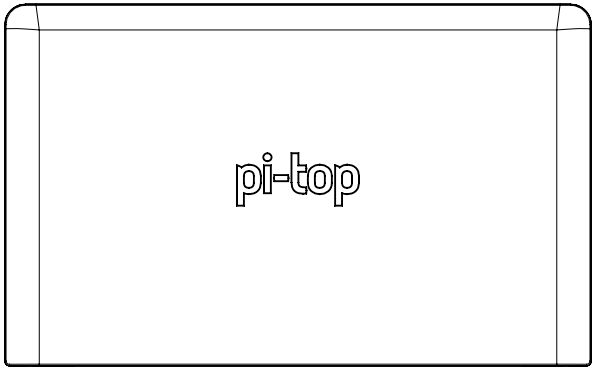
The **pi-top** Team

Contents

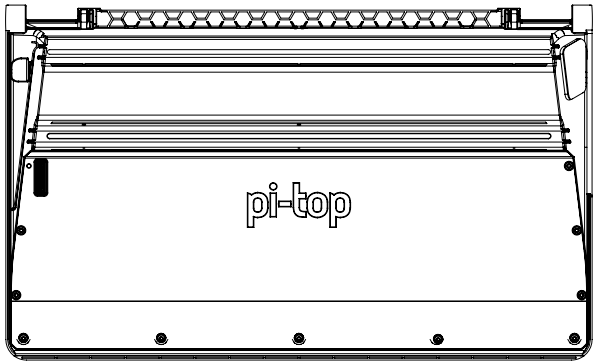
2	Getting Ready
5	Step 1: Prepare PCBs
6	Step 2: Prepare Base
7	Step 3: Attach Lid
12	Step 4: Secure Hub
17	Step 5: Install Micro Computer
18	Step 6: Plug in Cables
20	Step 7: Prepare Base Top
22	Step 8: Attach Base Top
29	Using your **pi-top**

Getting Ready: What's in the Box?

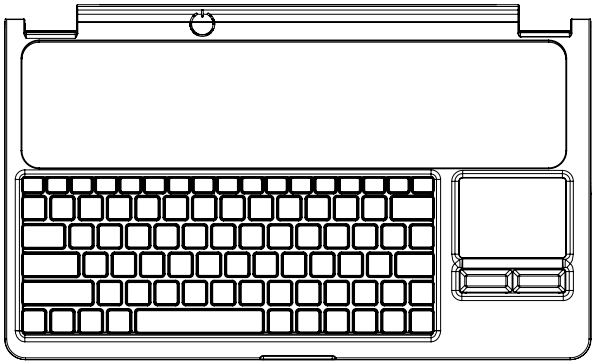
LID



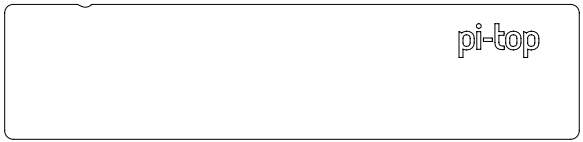
*BASE



BASE TOP



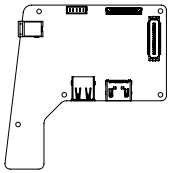
ACRYLIC SLICE



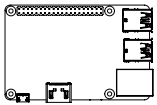
*Warning: Base houses pi-top's Smart Battery Pack which contains lithium polymer cells – handle with great care.

Getting Ready: What's in the Box?

HUB

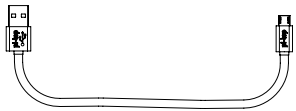


MICRO COMPUTER



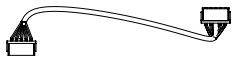
HDMI CABLE

MICRO USB CABLE

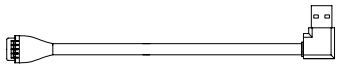


GPIO BREAKOUT CABLE

POWER CONTROL CABLE



KEYBOARD CABLE

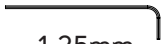


*PCB SCREWS X8 (Silver)

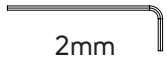
*PCB SPACERS X8 (Brass)

*M2.5 NUTS X9

*SML ALLEN KEY

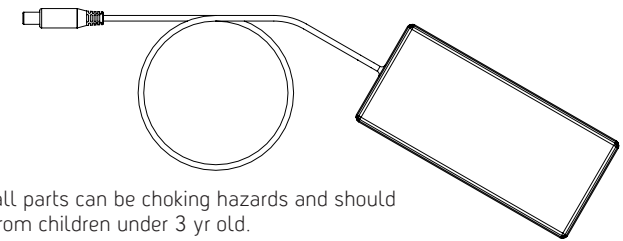


*LRG ALLEN KEY

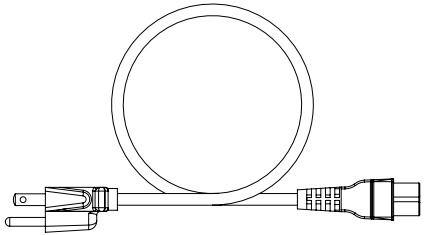


*MICRO SD CARD

AC TO DC ADAPTER



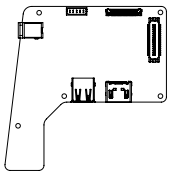
MAINS AC CABLE

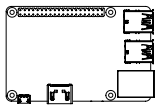


*Warning: Small parts can be choking hazards and should be kept away from children under 3 yr old.

Step 1.1: Prepare PCBs

YOU WILL NEED

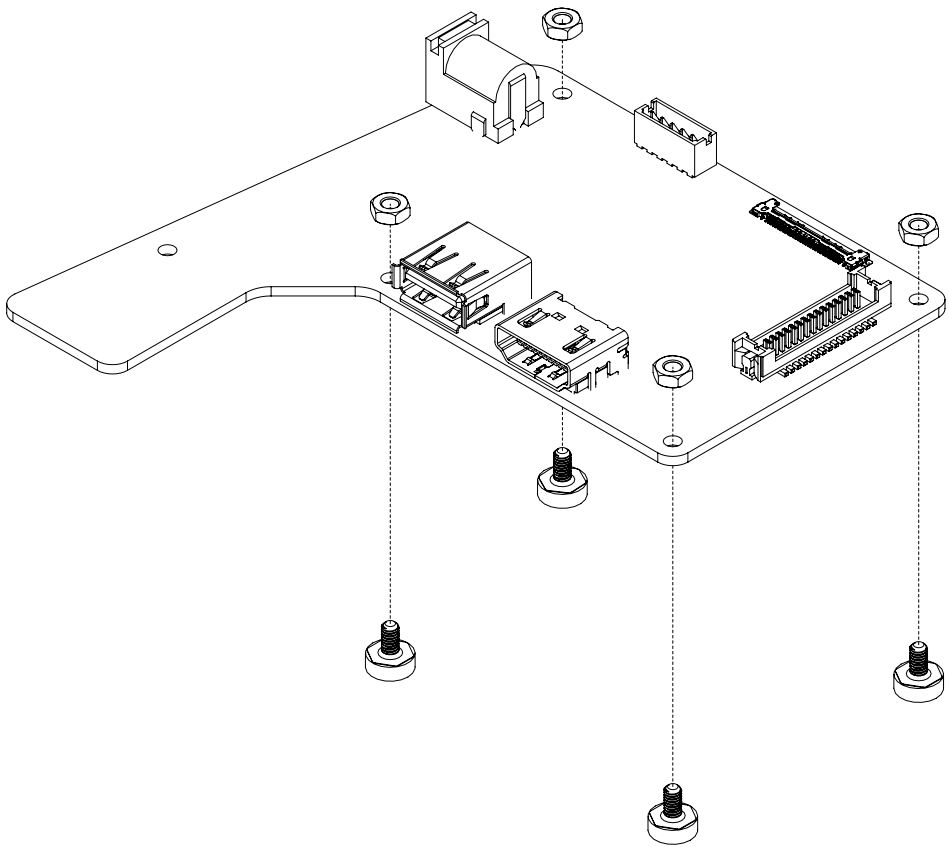




PCB SPACER
(Brass)

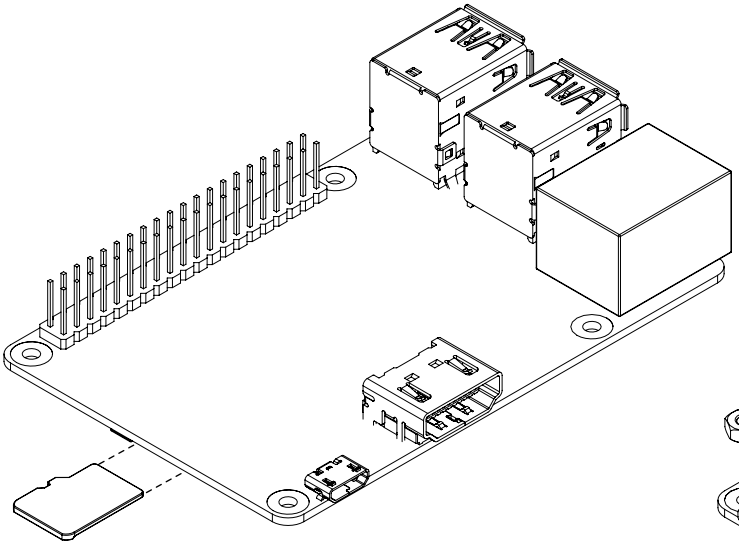
x 8

x 8



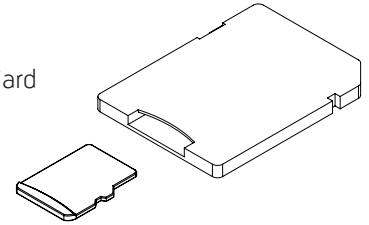
Caution: Be sure to work on a surface free of static electricity.

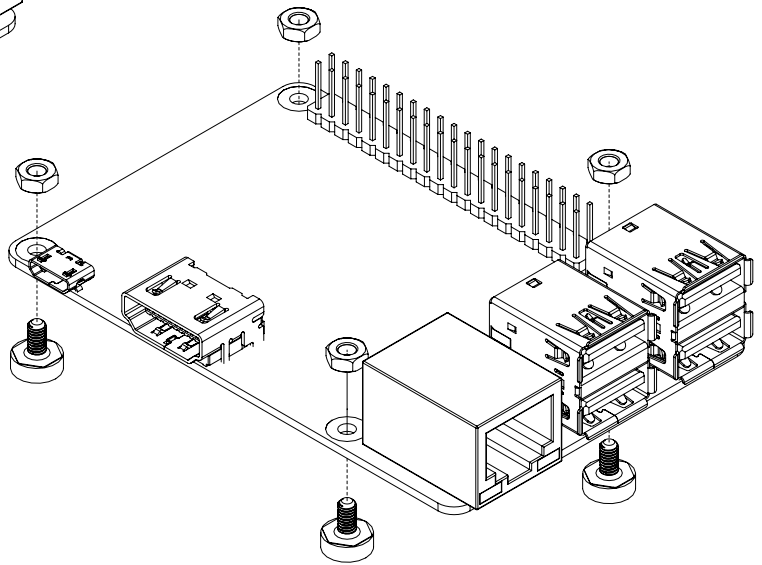
Step 1.2: Prepare PCBs



Insert micro SD Card into slot
underneath your Micro Computer

Remove the micro SD Card
from the adapter.

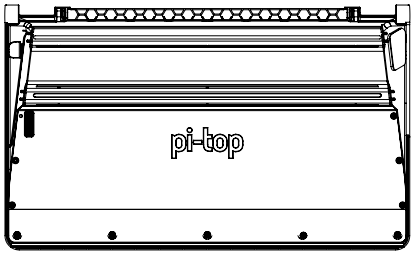


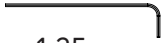


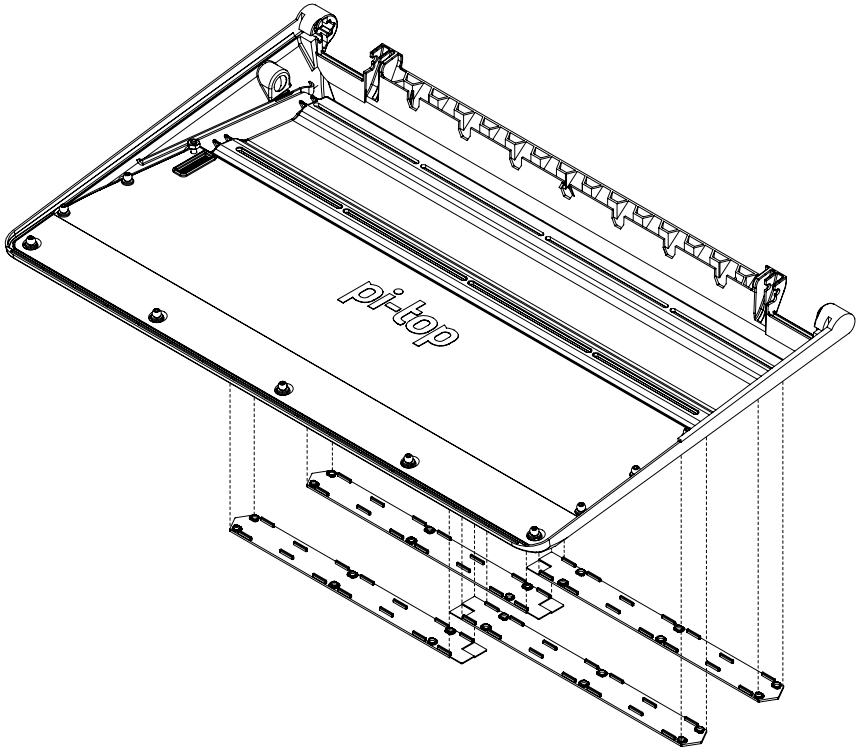
Caution: Keep spacers and nuts away from PCB tracks and components to avoid damaging PCB

Step 2: Prepare Base

YOU WILL NEED



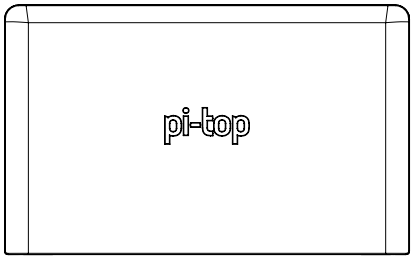


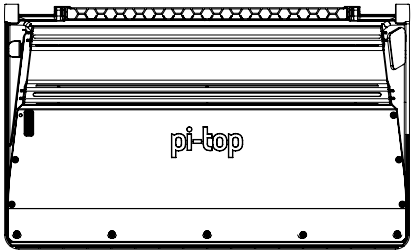


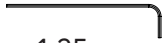
Remove Rail Covers from bottom of the Base. They can be gently pushed out from inside Base useing the Small Allen Key. They are magnetically attached and you can re-attach them after you finish the whole assembly to keep your **pi-top** looking neat.

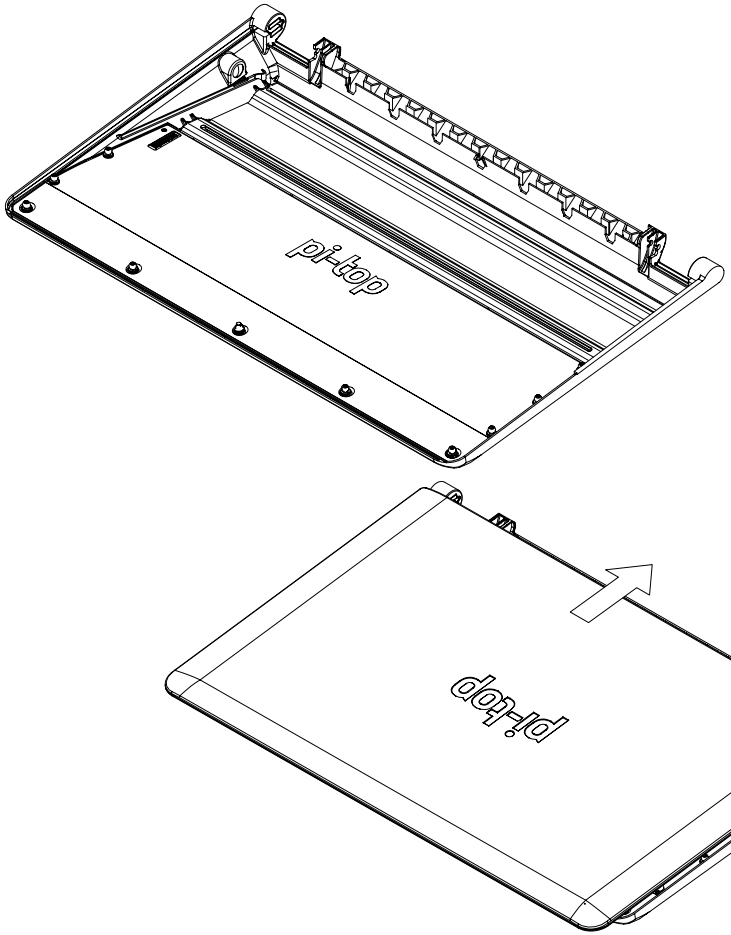
Step 3.1: Attach Lid

YOU WILL NEED

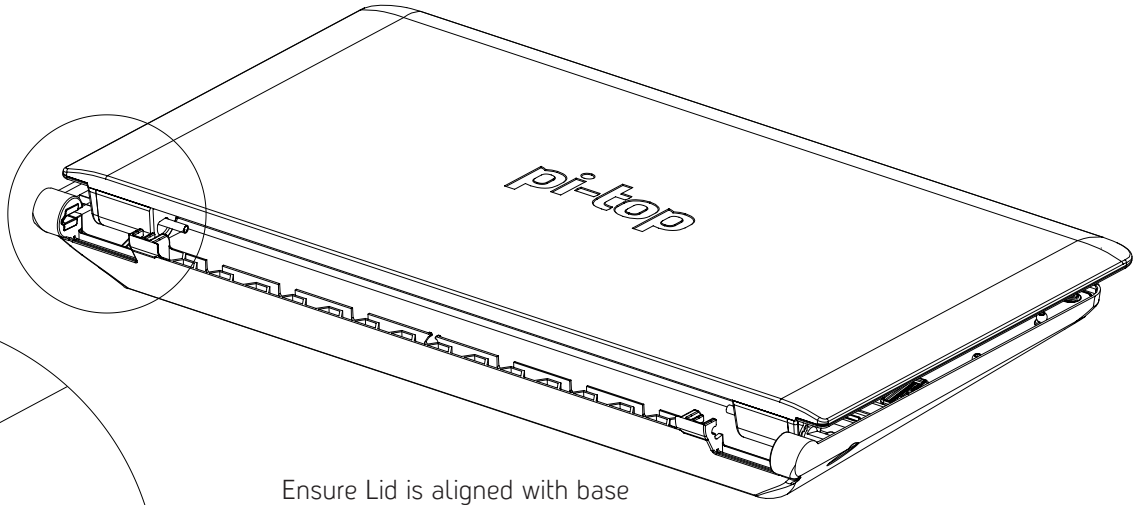


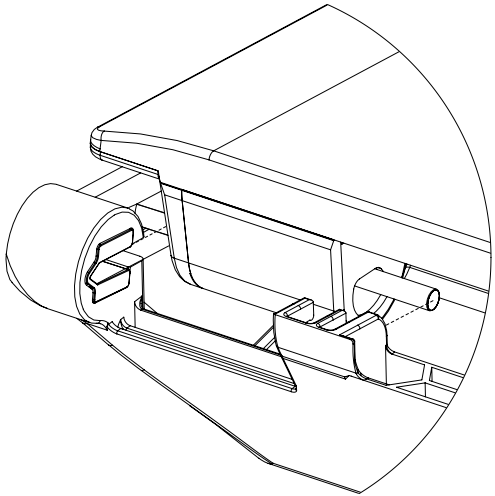




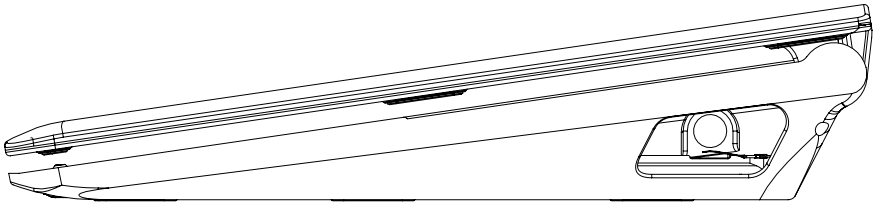


Step 3.2: Attach Lid



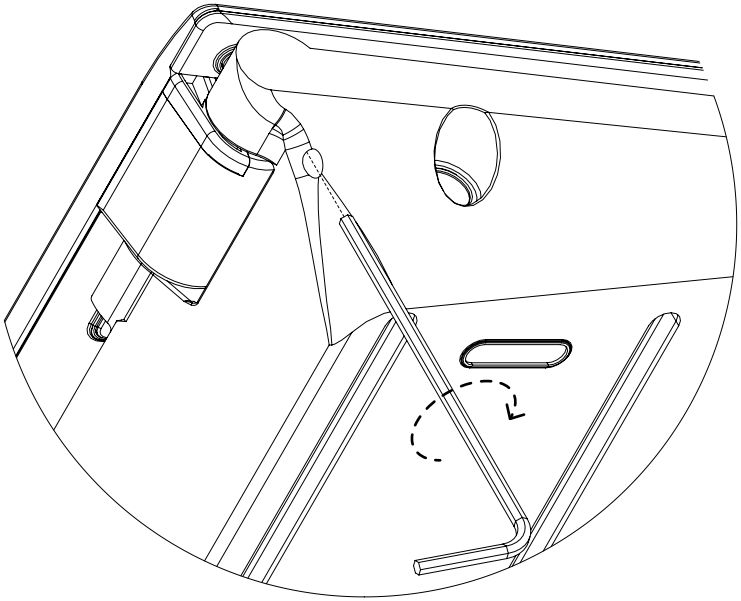


Ensure Lid is aligned with base and insert until it clicks into the back hinge.

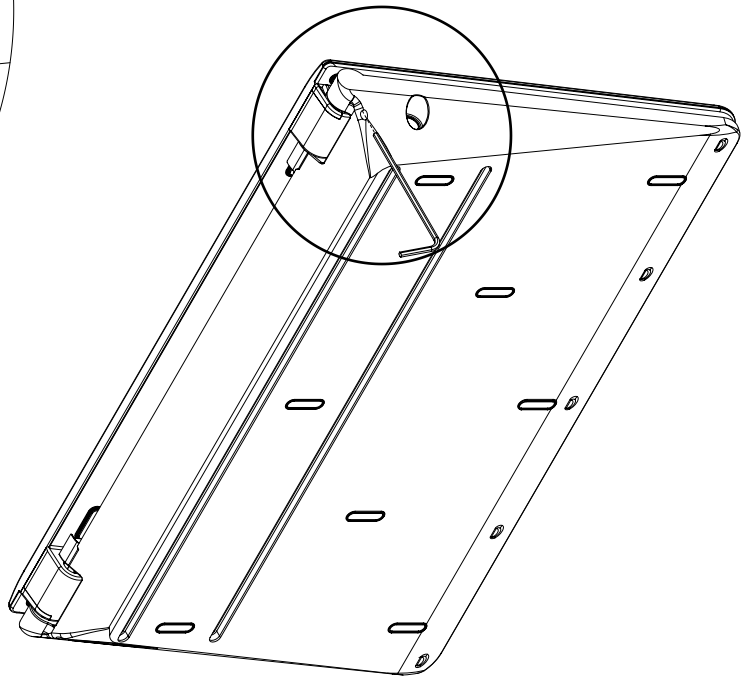


Caution: Ensure hinge is fully inserted. Failure to do so could lead to damage of the hinge or base.

Step 3.3: Attach Lid



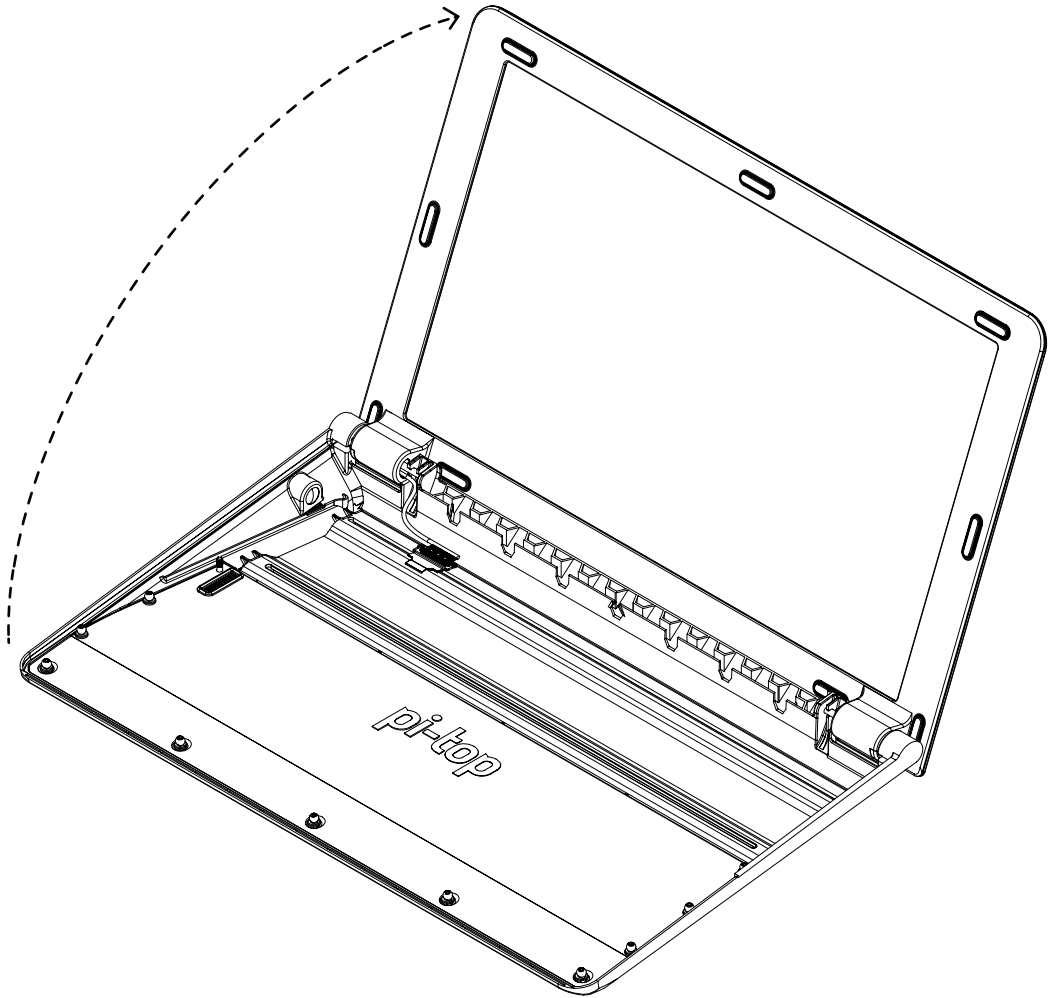
Keep the Lid aligned as you gently tighten screw.



Caution: Do not over tighten to avoid damaging screw head.

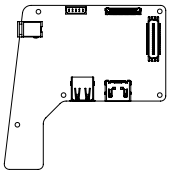
Step 3.4: Attach Lid

Before opening please make sure the hinge is fully inserted and secured in place.



Step 4.1: Secure Hub

YOU WILL NEED

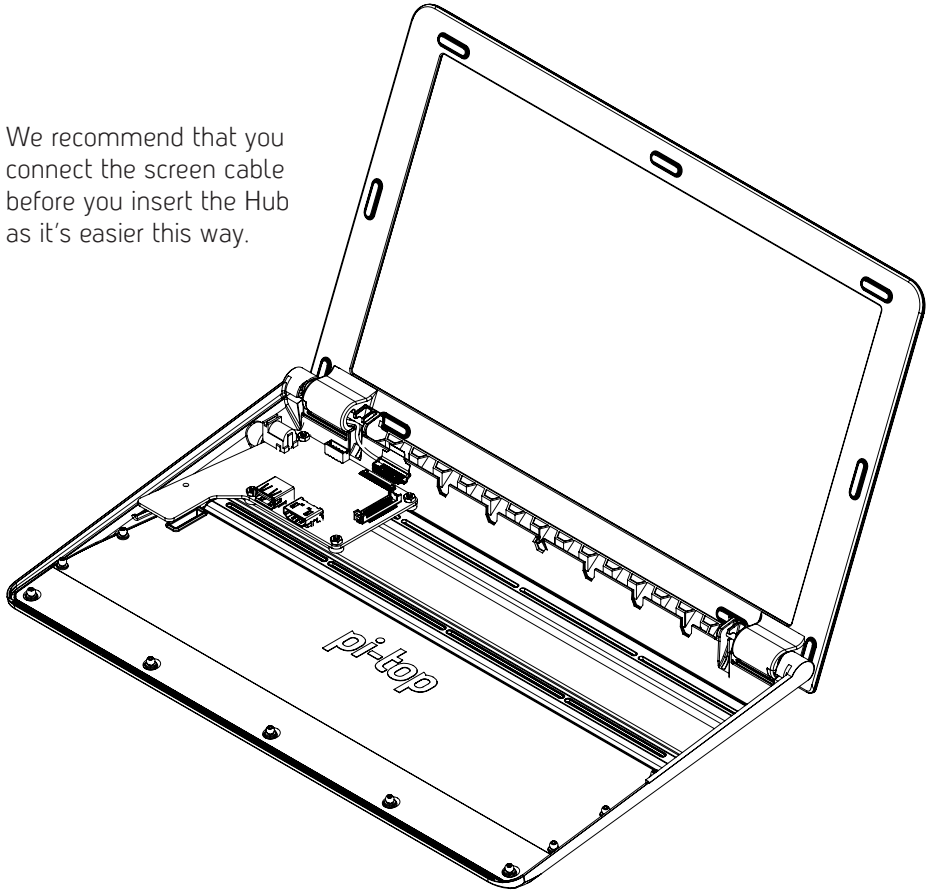


PCB SCREW
(Silver)

x 4

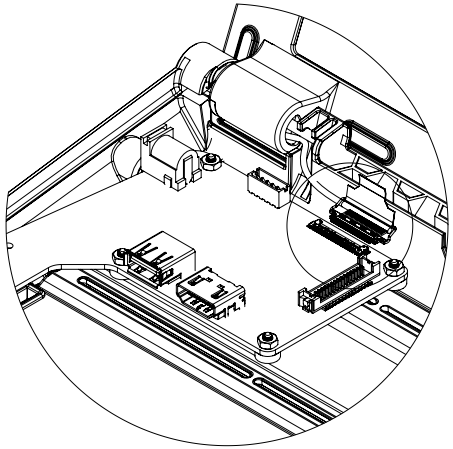
2mm

We recommend that you connect the screen cable before you insert the Hub as it's easier this way.

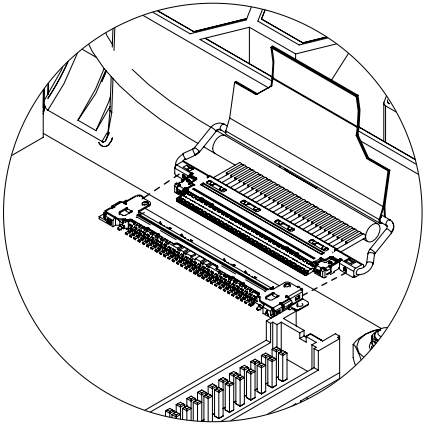


Caution: Ensure battery connector on Hub doesn't make contact with battery until Step 4-3.

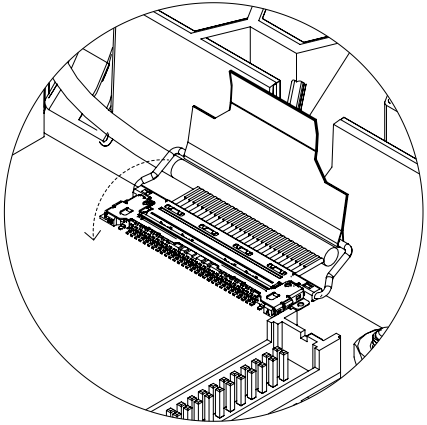
Step 4.2: Secure Hub



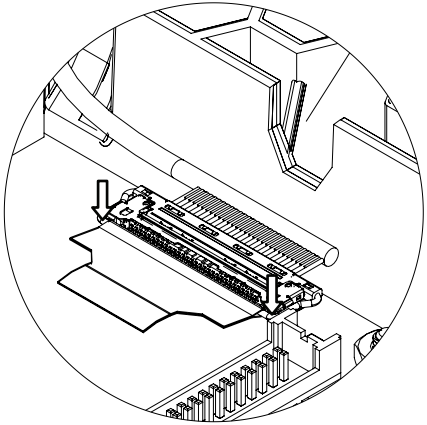
Align and insert



Rotate locking bar



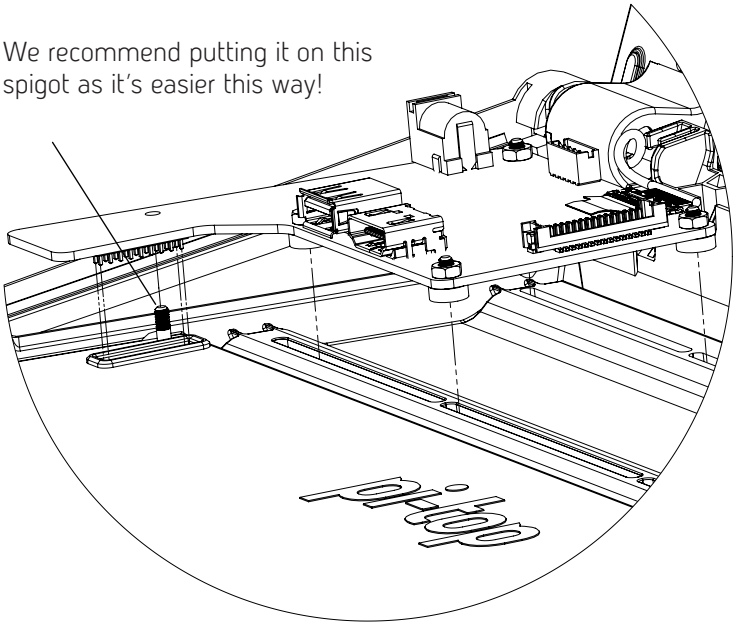
Gently push down on both sides until it clicks and is secured

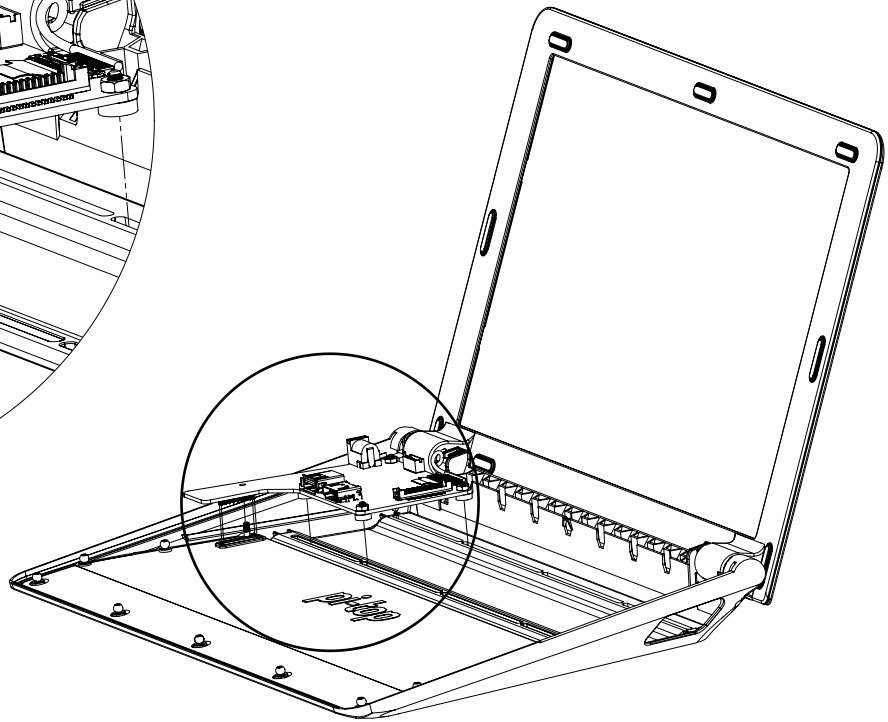


Caution: Take extra care to properly align and do not use excessive force.

Step 4.3: Secure Hub

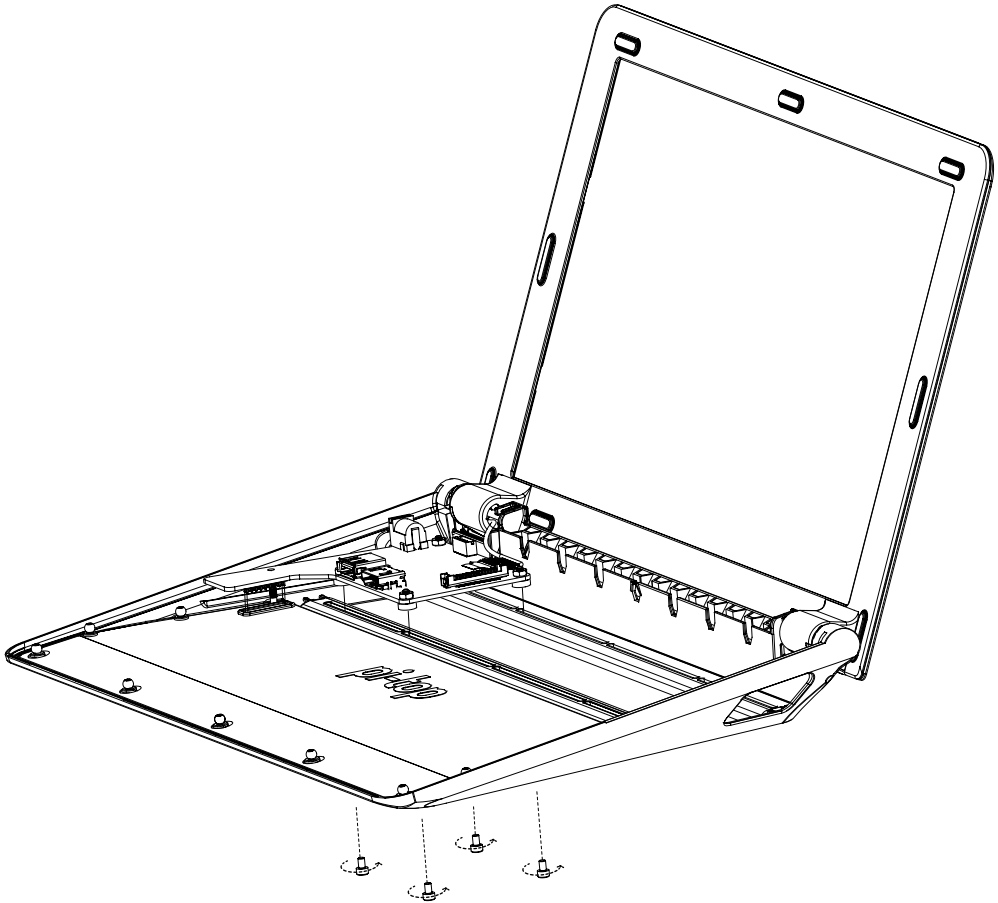
We recommend putting it on this spigot as it's easier this way!





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.

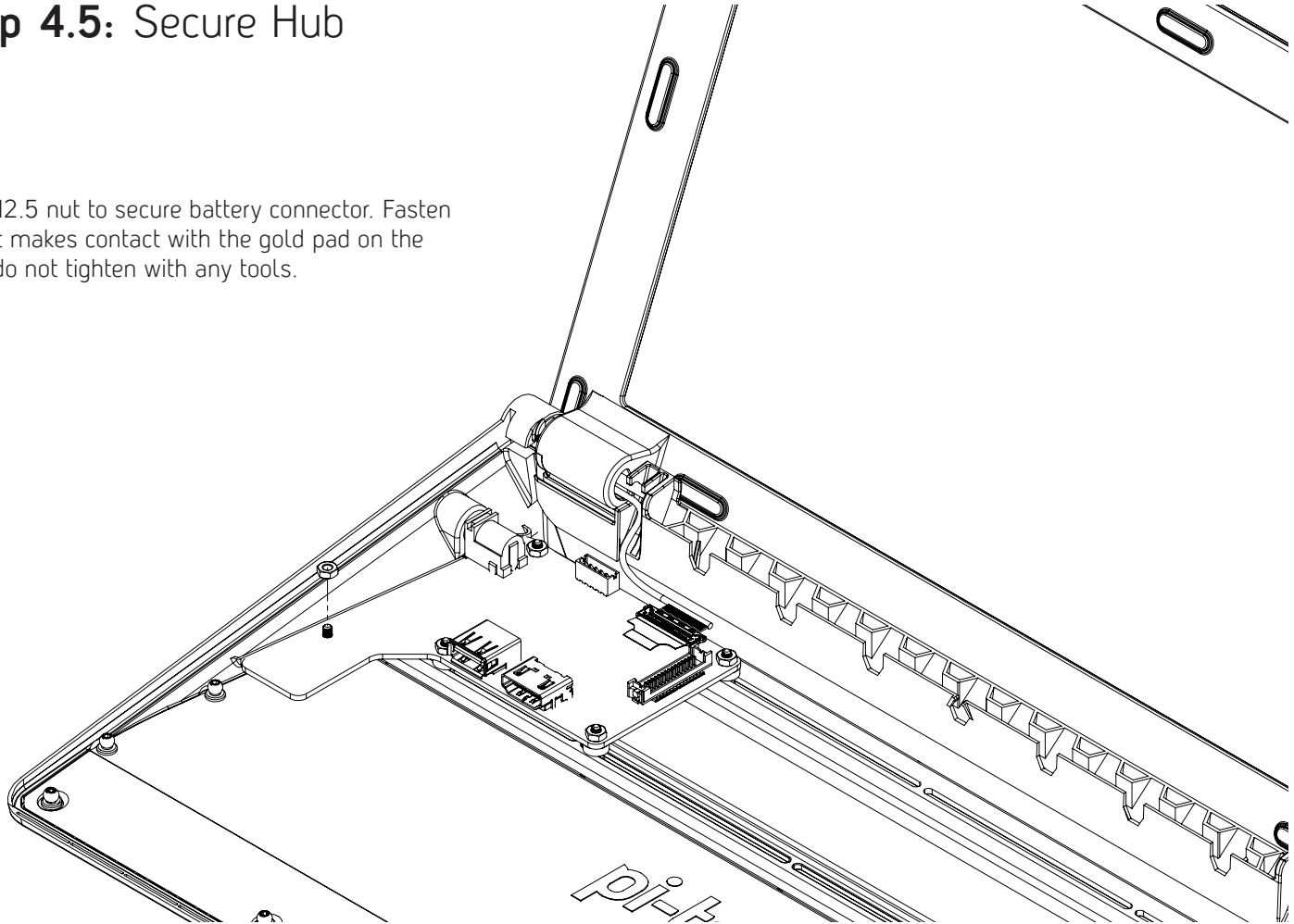
Step 4.4: Secure Hub



Caution: Do not over tighten as this could damage the screw head.

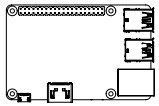
Step 4.5: Secure Hub

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.



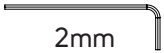
Step 5: Install Micro Computer

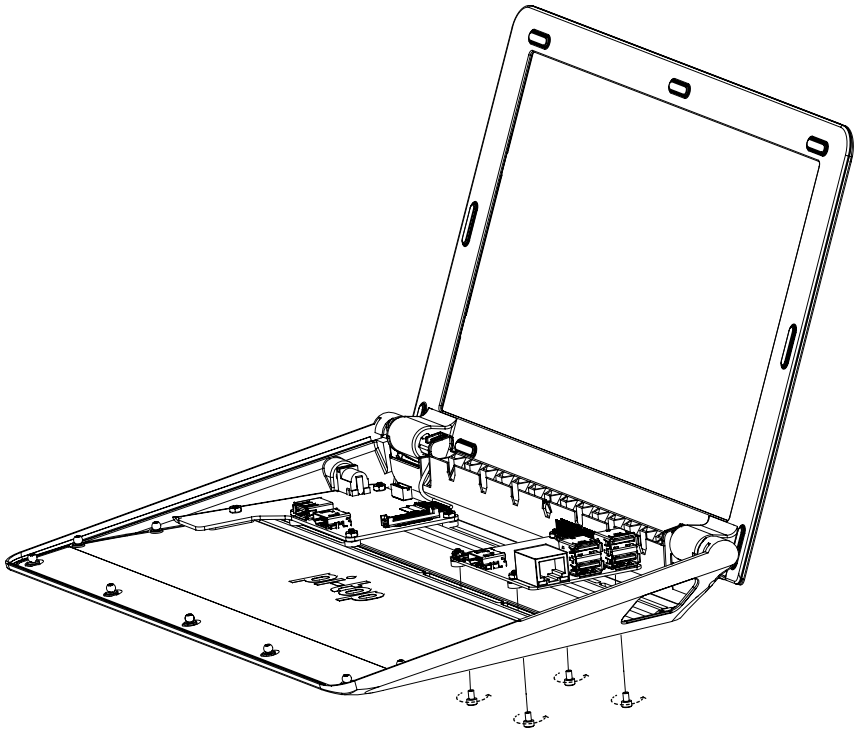
YOU WILL NEED



PCB SCREWS
(Silver)

x 4

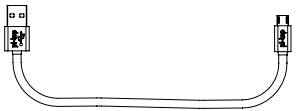


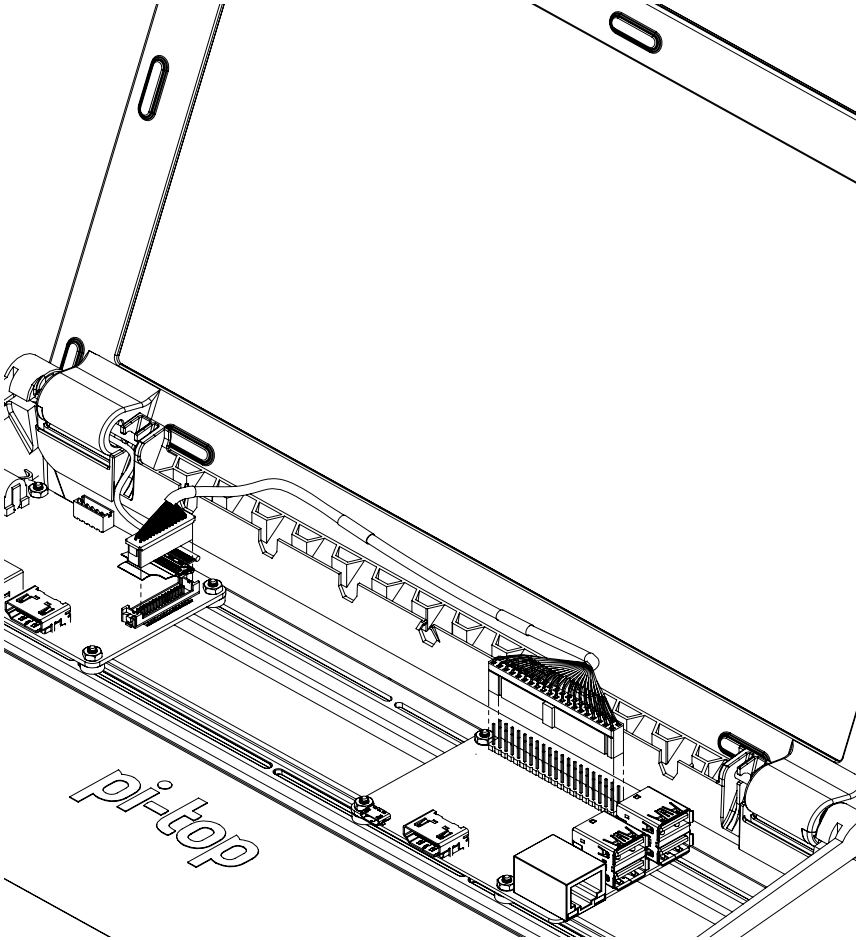


Caution: Over-tightening may damage PCB spacers – gently tighten until they just grip the Base.

Step 6.1: Plug in Cables

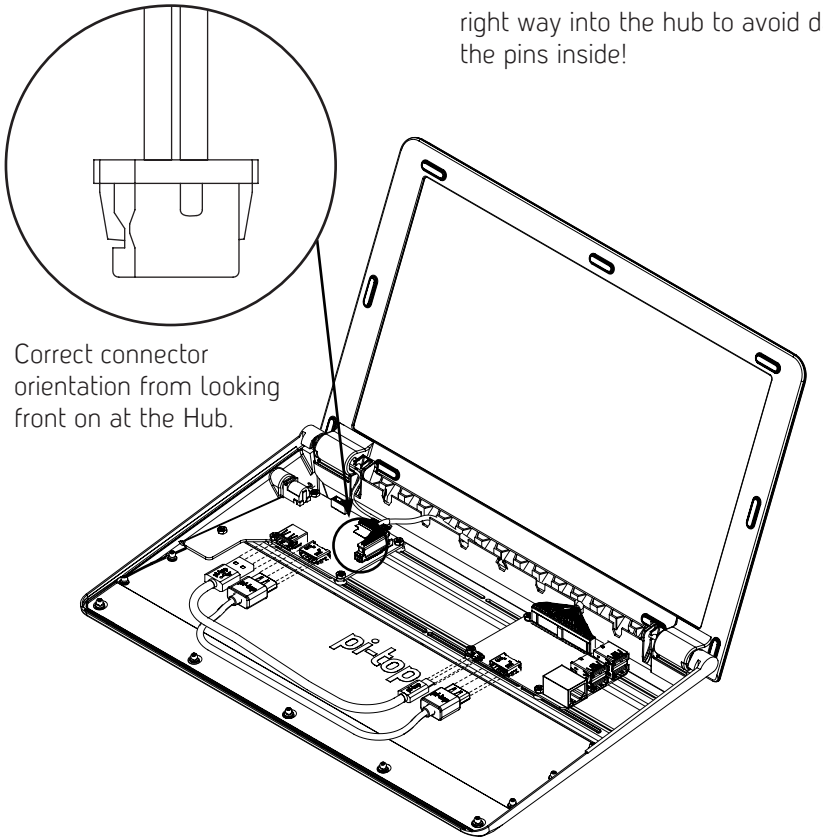
YOU WILL NEED



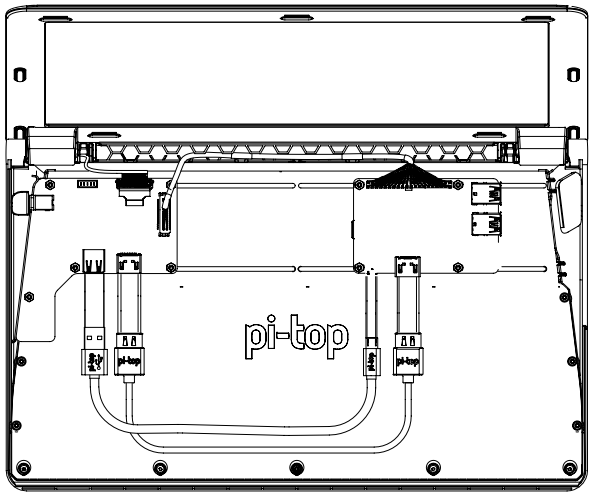


Step 6.2: Plug in Cables

Be sure to insert the breakout cable the right way into the hub to avoid damaging the pins inside!

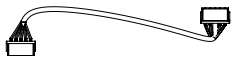


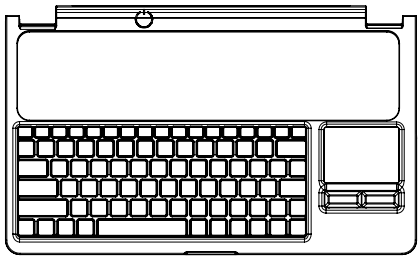
Correct connector orientation from looking front on at the Hub.

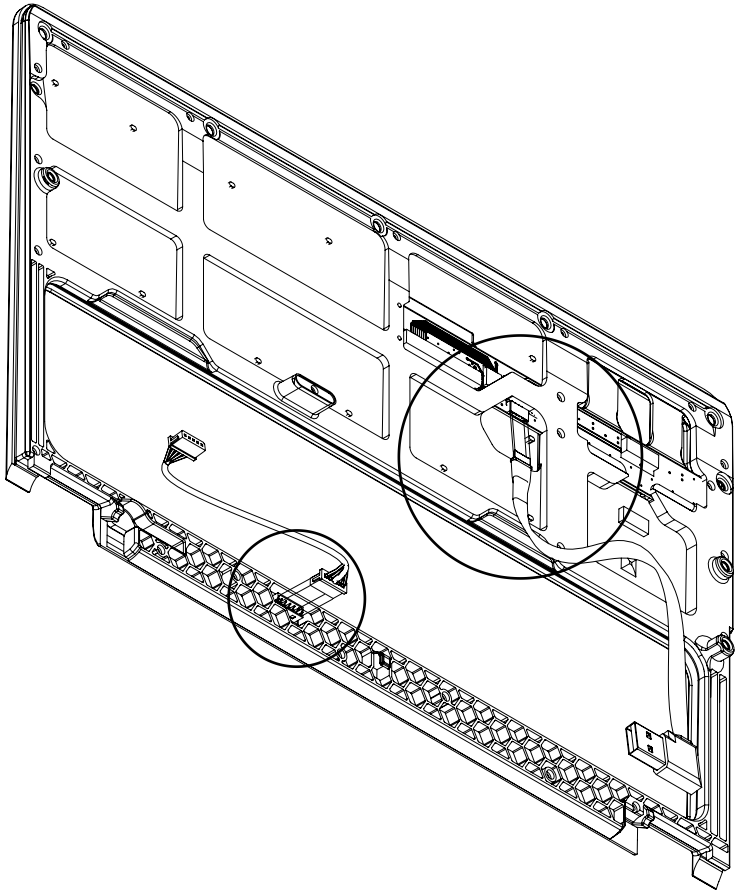


Step 7.1: Prepare Base Top

YOU WILL NEED

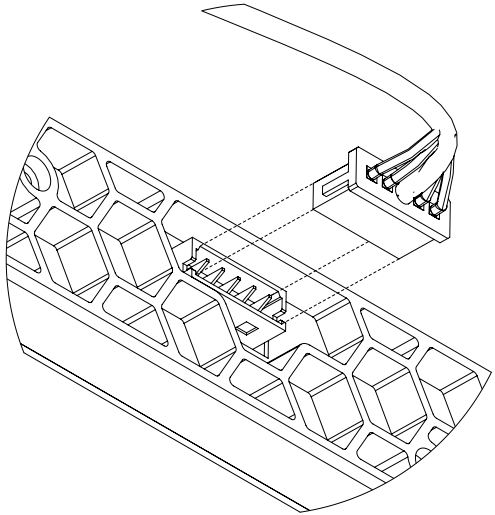


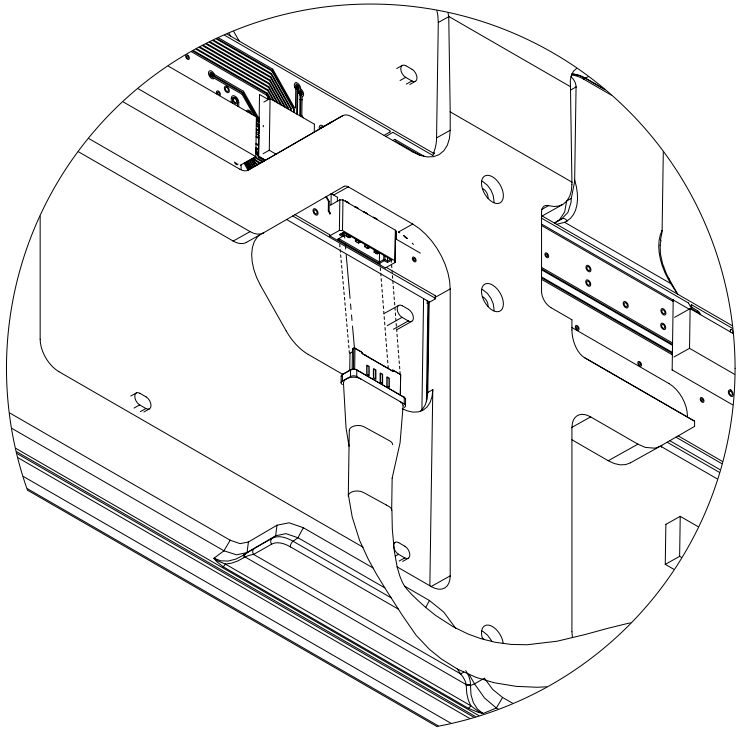




Step 7.2: Prepare Base Top

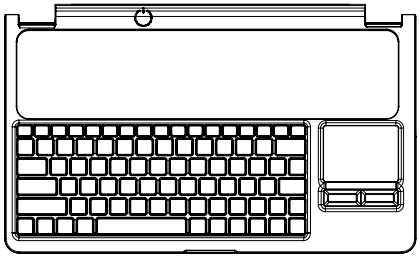
Keyboard Connector can become loose with excessive cable movement, ensure it is fully inserted before attaching Base Top



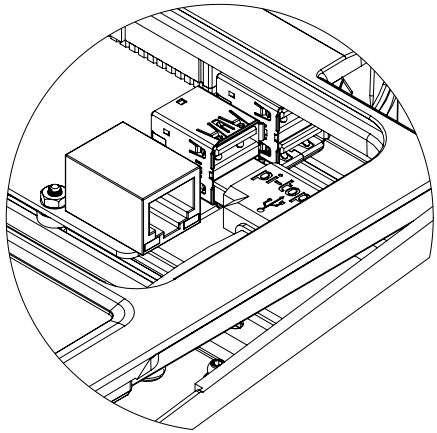


Step 8.1: Attach Base Top

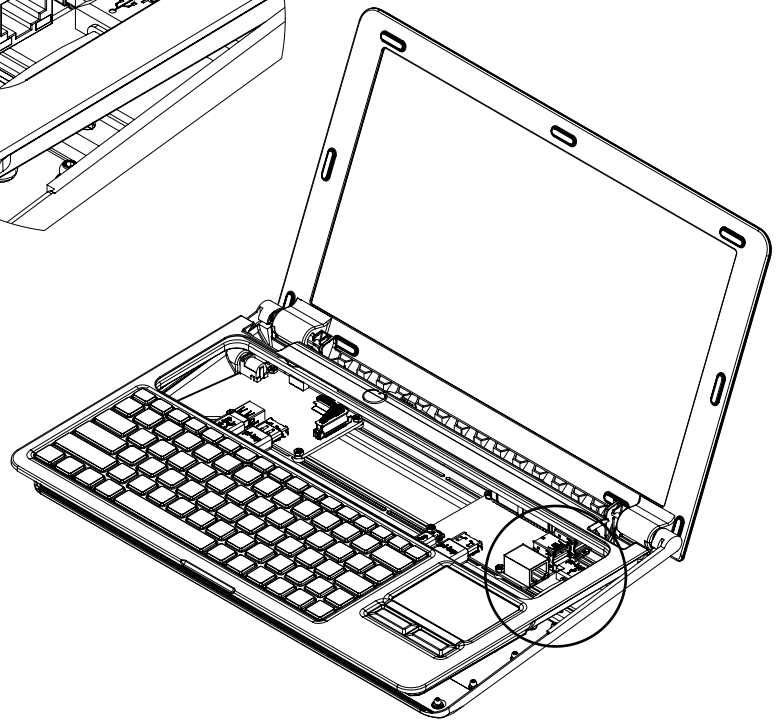
YOU WILL NEED



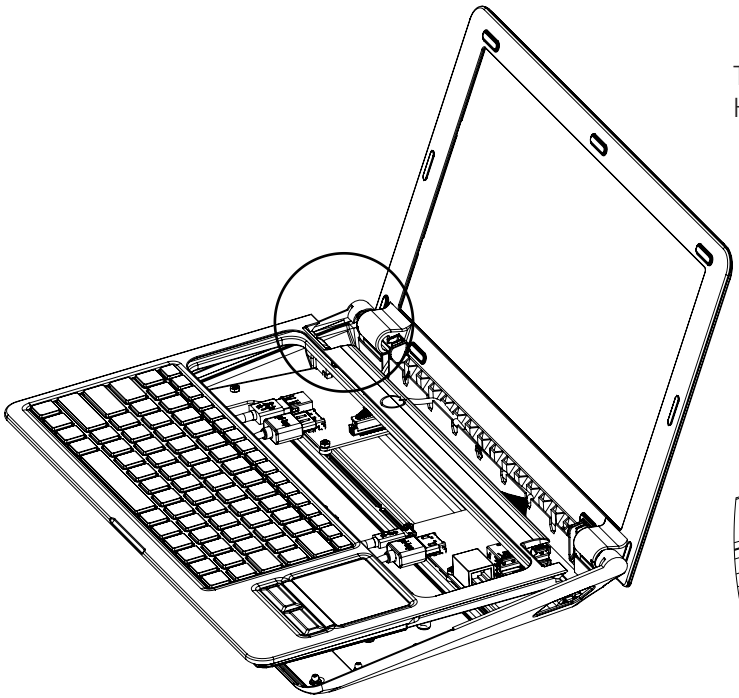
*__Tip:__ The Acrylic Slice is wrapped in brown protective paper, remove before use..



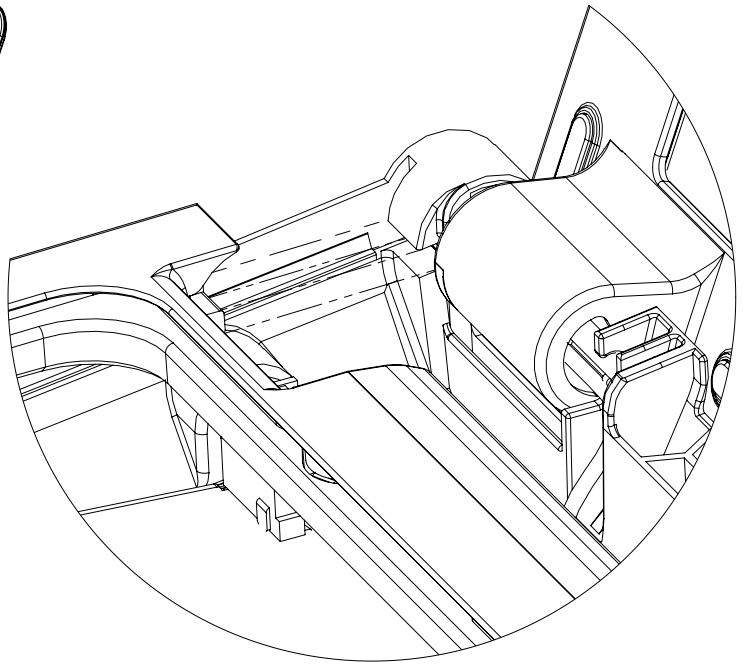
Insert the Keyboard USB cable.



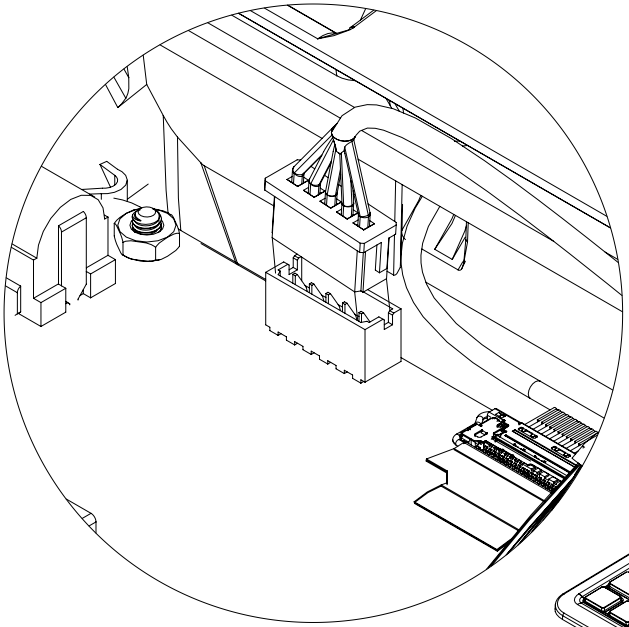
Step 8.2: Attach Base Top



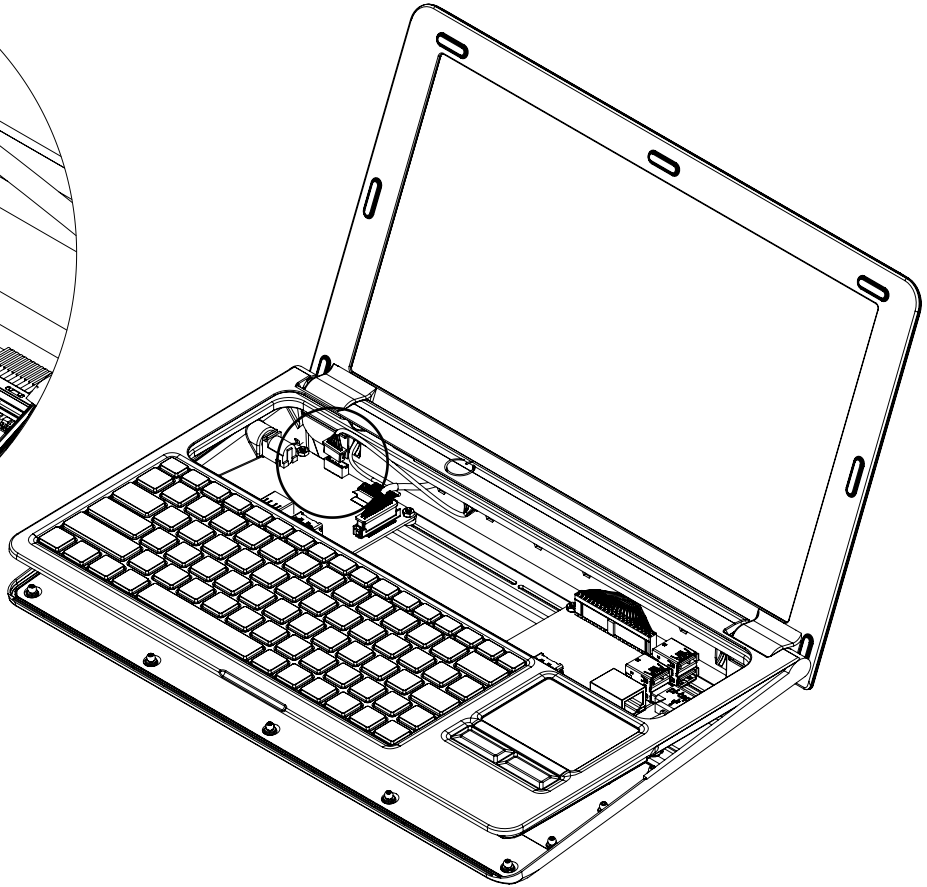
The tabs on the Base Top push into the same slots as the Hinges did when inserting the Lid in Step 3-1.



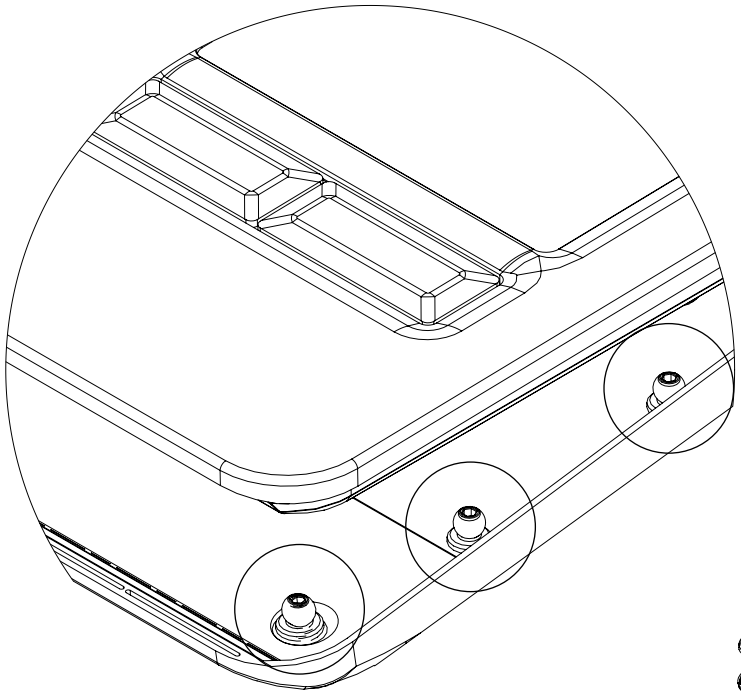
Step 8.3: Attach Base Top



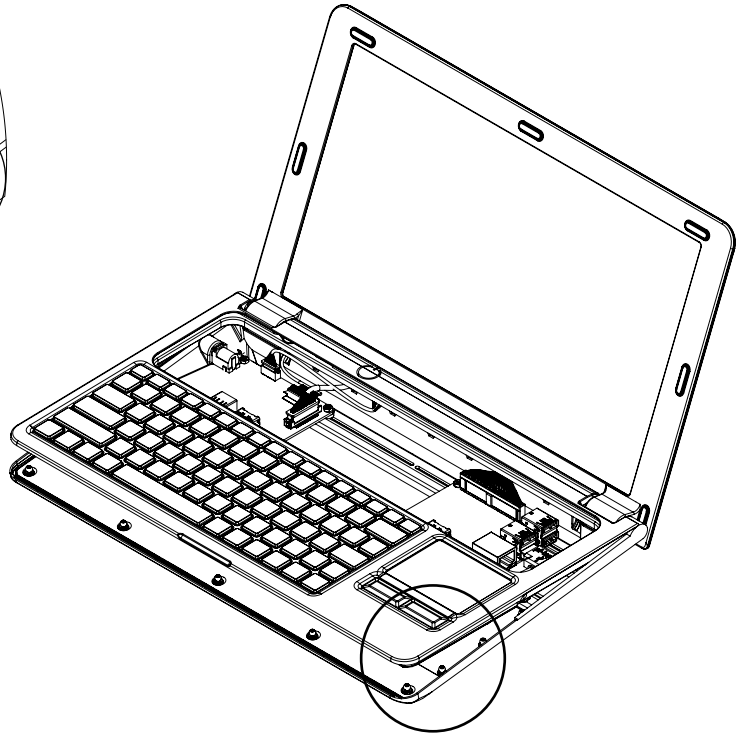
Insert Power Control Cable into Hub.



Step 8.4: Attach Base Top

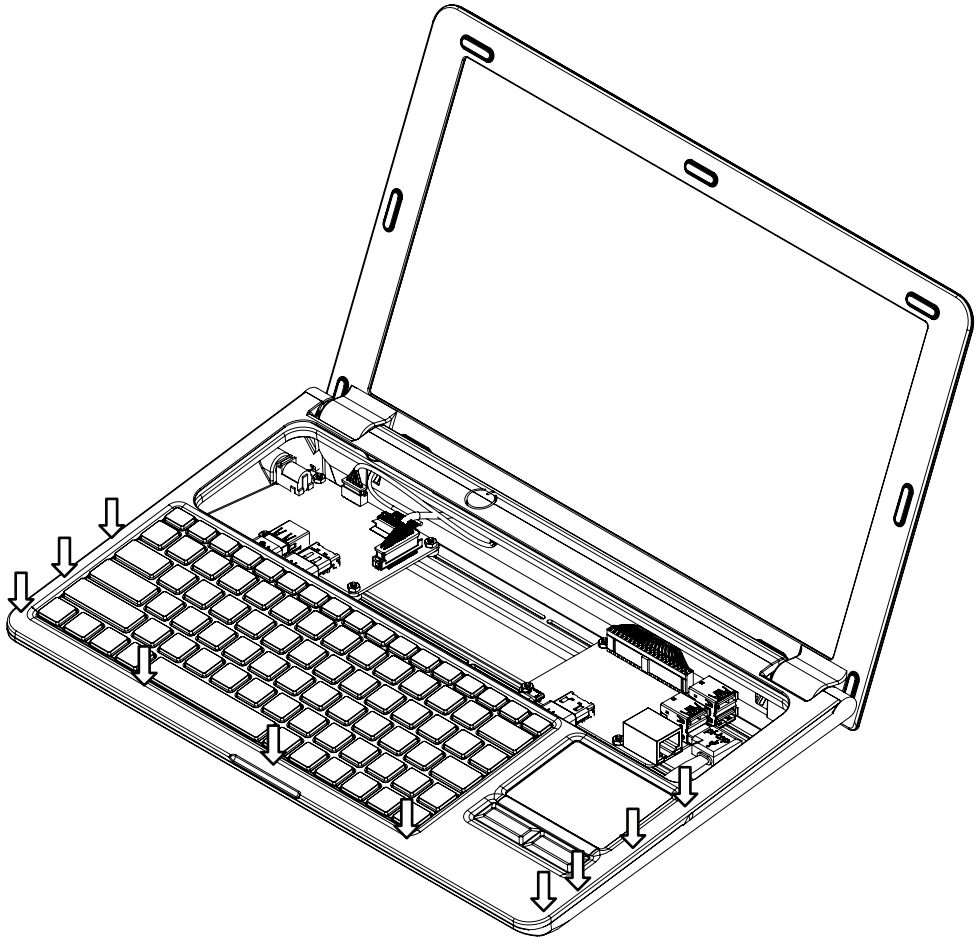


Ball Headed Screws



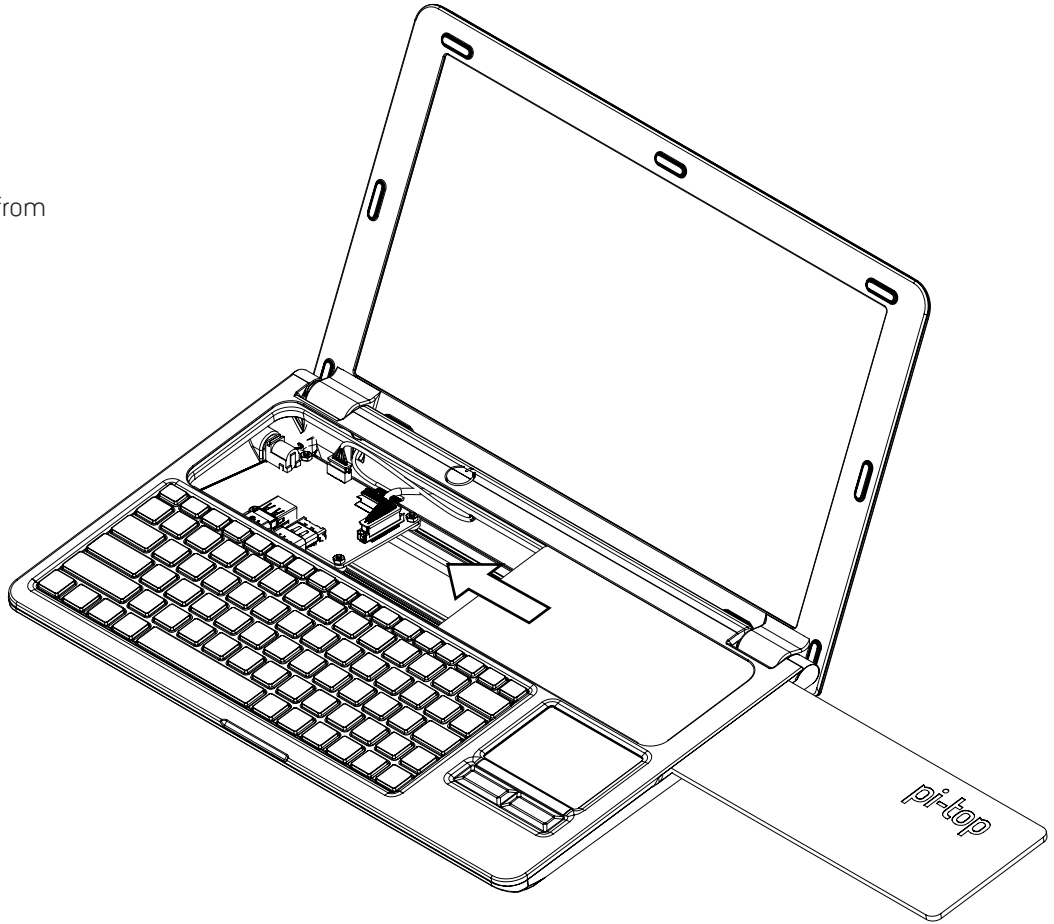
Step 8.5: Attach Base Top

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.

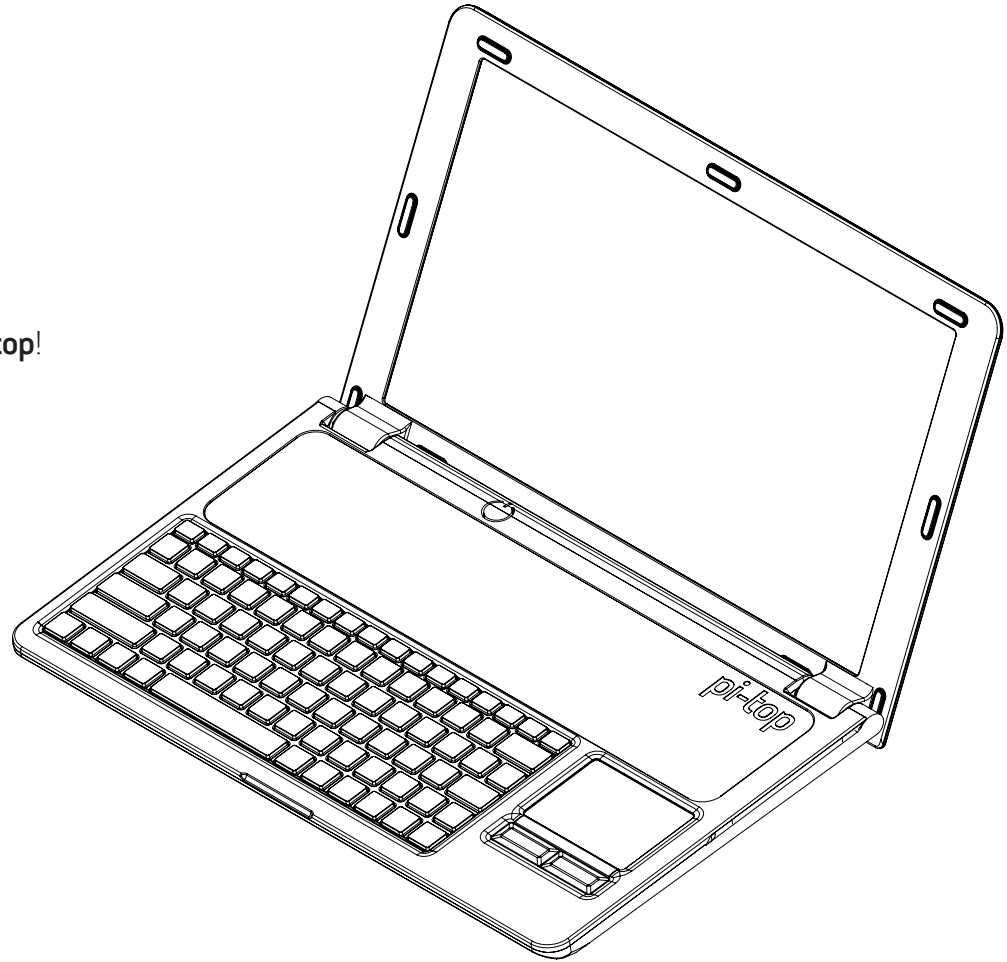


Step 8.6: Attach Base Top

Remove the brown protective paper from Acrylic Slice and insert.



Congratulations, you've built a **pi-top**!



Step 9: Using Your **pi-top**

Powering Up

- Plug in the mains adapter. This will wake the battery up from shipping mode.
- After a few seconds, the green LED underneath the power button will start to pulse.
- Press and hold the power button for 1-2 seconds

Using pi-topOS

- Visit www.pi-top.com/#/help/OS

Powering Down

- To communicate with the Micro Computer that you wish to shut down, hold down the power button for 2-3 seconds.
- Shutdown can also be triggered from **pi-top**OS.
- To force shutdown, hold down the power button for 5-6 seconds. Warning: this can cause SD Card corruption.

Disclaimer

This is a build-it-yourself device, we ask you take extra care when putting together your **pi-top**. Remember, circuit boards, although durable, will break if you don't treat them with care.
CEED LTD is not responsible for any of the below:

- Personal injury or damage to product resulting from removal of battery cover and/or Smart Battery PCB (located underneath metal battery cover). Working with lithium polymer cells is dangerous and should only be carried out by a trained engineer, hence why the battery pack is provided fully assembled and protected by a sheet of stainless steel. Do not remove!
- Data loss as a result of SD Card corruption.
- Damage to cables from excessive force and/or misalignment when plugging in connectors.
- Any electrical injury resulting from misuse of **pi-top** components.
- Damage to the PCB resulting from user error. Please ensure that you are free of static electricity when handling PCBs to prevent unwanted electrostatic discharges from damaging sensitive electronics components.
- Malfunction of components as a result of mishandling.
- Damage to the screen as a result of tampering or accidental breakage.
- All damage as a result of contact with liquids, including any injuries electrical or otherwise as a result of such action.
- Use of solder - this product comes in a modular design and no soldering is required.
- Choking of any user; all children under age of 8 using **pi-top** must be supervised during assembly and play, adults not excluded from liability disclaimer if choking also occurs. There are small parts to any electronic device and you must be sure your child or student uses **pi-top** in its intended fashion.

We ask that if you are in doubt of how to use **pi-top** or are unsure about the instructions provided within that you please contact us on build@pi-top.com for any support you require.

pi-top

THE MAKER'S LAPTOP

www.pi-top.com