



Click here to
watch our
installation
video

pi-top [4]

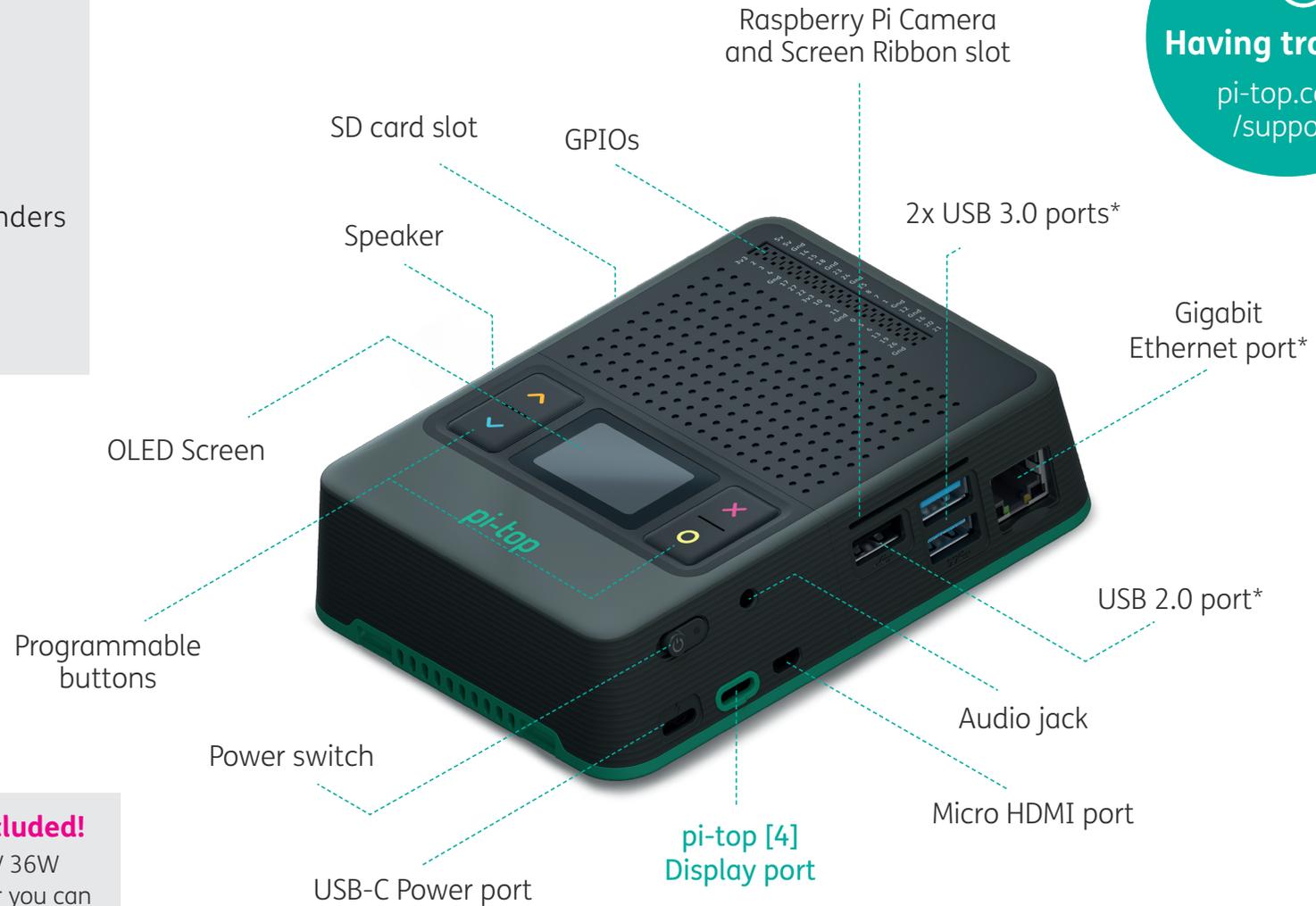
DIY EDITION

Installing the Raspberry Pi 4

Last updated: 16/10/2020

What's in the box?

- pi-top [4]
- **Raspberry Pi 4 not included!**
- 2 Thermal Pads
- 1 USB Plug
- 1 DSI Cable
- 1 CSI Cable
- 2 Male-to-Male GPIO Extenders
- 1 Screwdriver
- Magnetic HAT Fixings
- Warranty Pamphlet



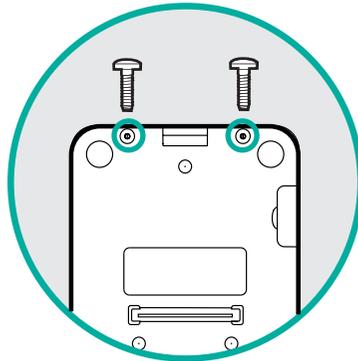
Power Supply not included!

You can use your own 15V 36W USB-C PD power supply, or you can purchase our pi-top Power Supply.

Removing the Raspberry Pi 4 enclosure from the pi-top

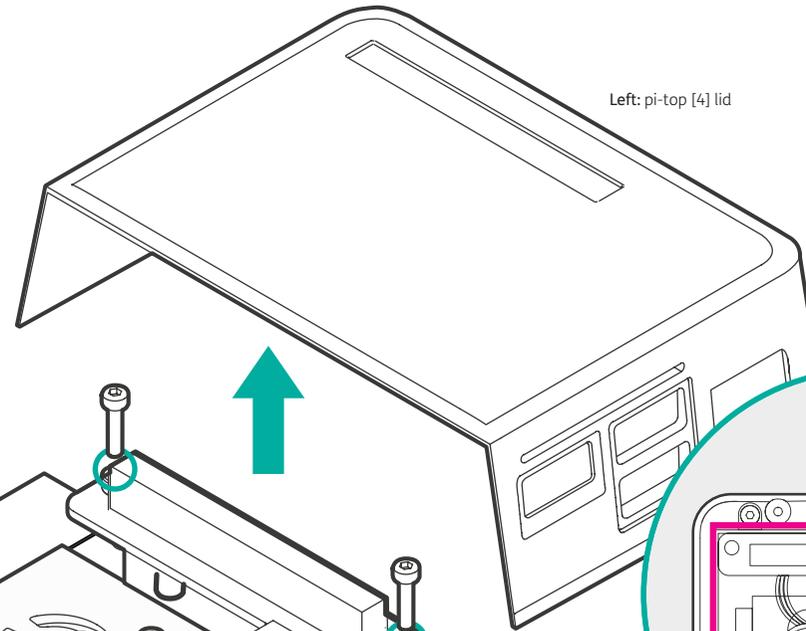
- 1 Remove the 2 screws from the base of the pi-top [4].

Keep all of the screws safe as you'll be needing them later.



Above: Base of pi-top [4]

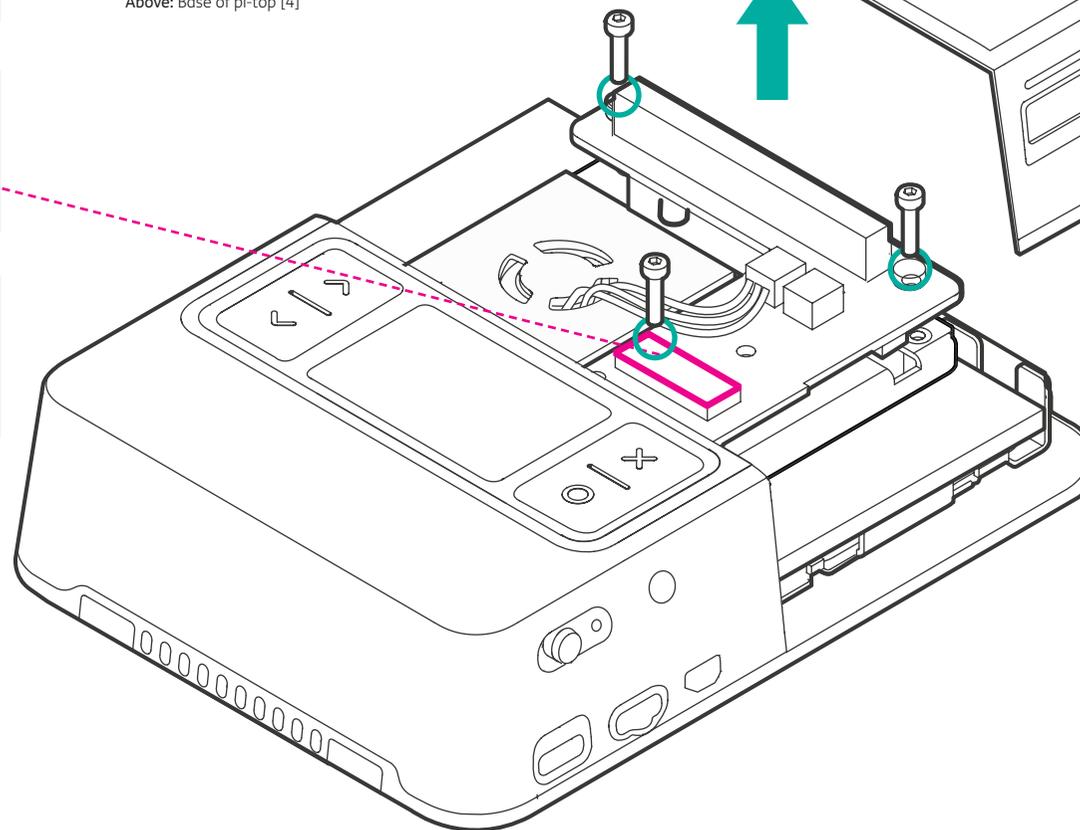
- 2 Carefully lift off the lid of the pi-top [4].



Left: pi-top [4] lid

- 3 Gently unclasp the silver ribbon cable from the connector.

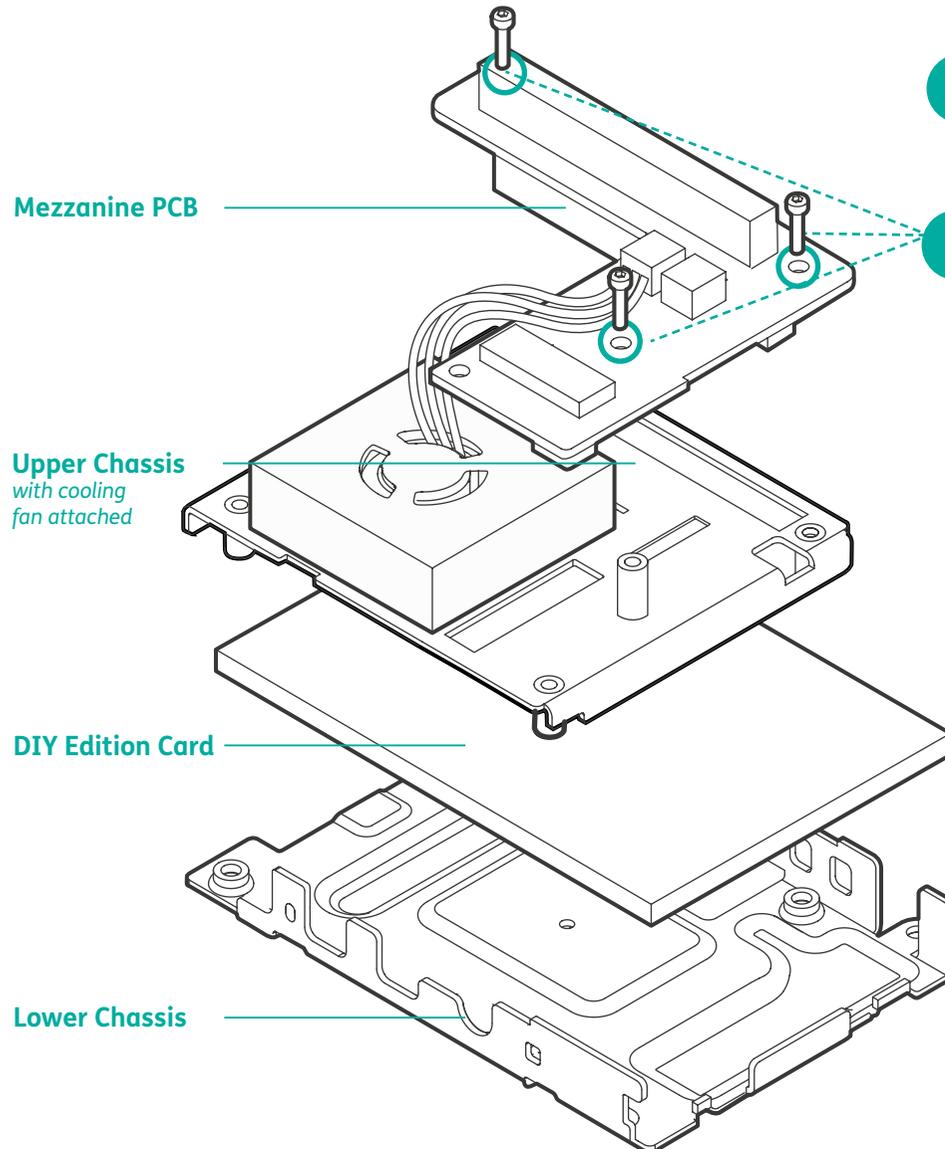
- 4 Remove these 3 screws (highlighted by green circles).



- 5 Carefully slide out the Raspberry Pi 4 enclosure in the direction of the pink arrow.

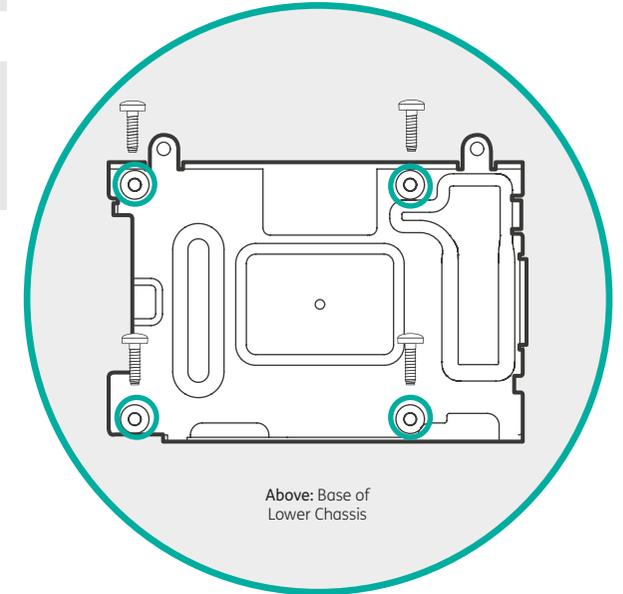
You may need to wiggle the chassis left to right to ease the connectors free. Take care not to forcefully pull it out.

Disassembling the Raspberry Pi 4 enclosure



6 Unplug the fan.

7 Remove these 3 screws and lift off the Mezzanine PCB.



8 Flip over the chassis and remove these 4 screws from the base of the Lower Chassis.

9 Lift off the Upper Chassis and take out the DIY Edition Card.

Inserting the Raspberry Pi 4

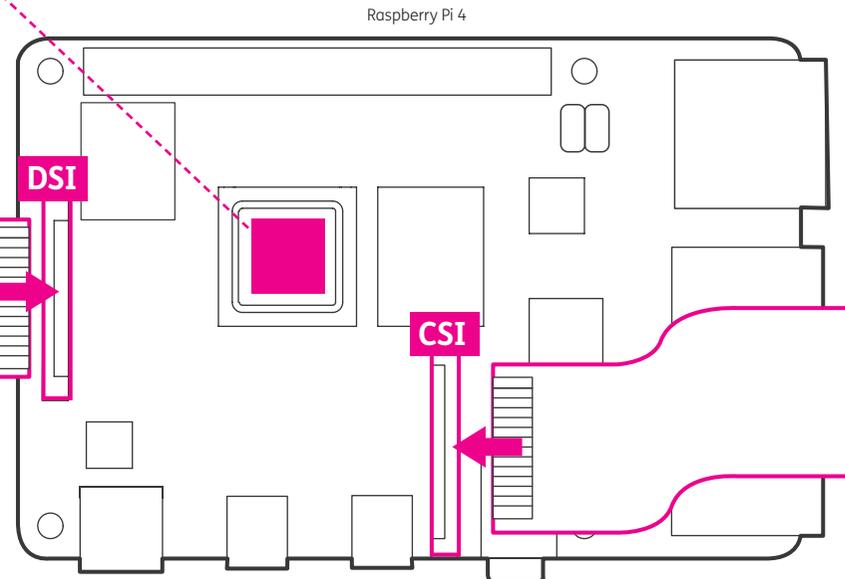
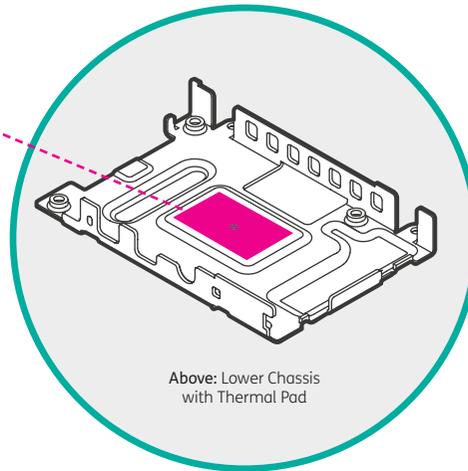
10 Peel off the protective film on the large thermal pad and stick it onto the center of the Lower Chassis.

11 Peel off the protective film on the small thermal pad and stick it onto the Raspberry Pi 4 CPU.

12 Lift the clasp of the DSI connector and gently insert the **black DSI cable**. Once correctly inserted, close the clasp to secure it in place.

13 Lift the clasp of the CSI connector and gently insert the **white CSI cable**. Once correctly inserted, close the clasp to secure it in place.

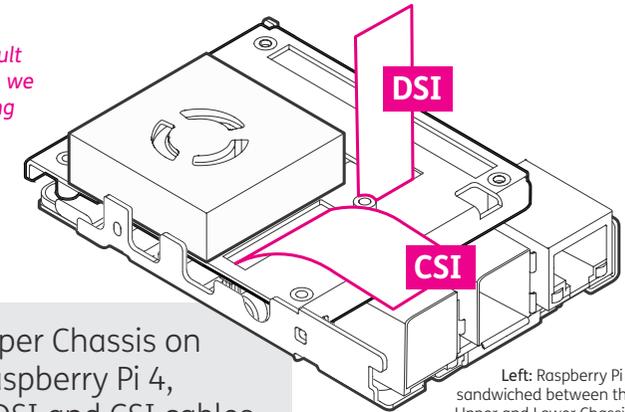
14 Place the Raspberry Pi 4 into the Lower Chassis.



Top tip: This is the most difficult part of the assembly process, we highly recommend referencing the assembly video.

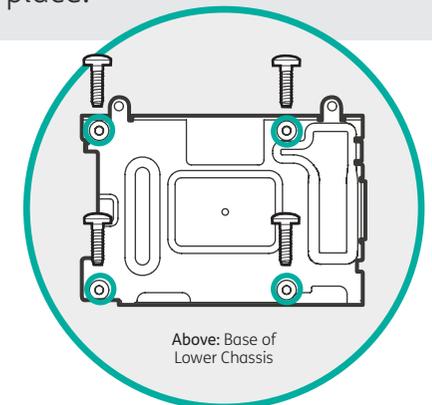
15 Place the Upper Chassis on top of the Raspberry Pi 4, feeding the DSI and CSI cables through their respective slots. Push gently in place.

(the black DSI cable should slot through the small slot, and the white CSI cable through the larger one).



Left: Raspberry Pi 4 sandwiched between the Upper and Lower Chassis, with the DSI and CSI cables fed through slots.

16 Reinsert the 4 screws into the base of the Lower Chassis and make sure they are tightened in place.

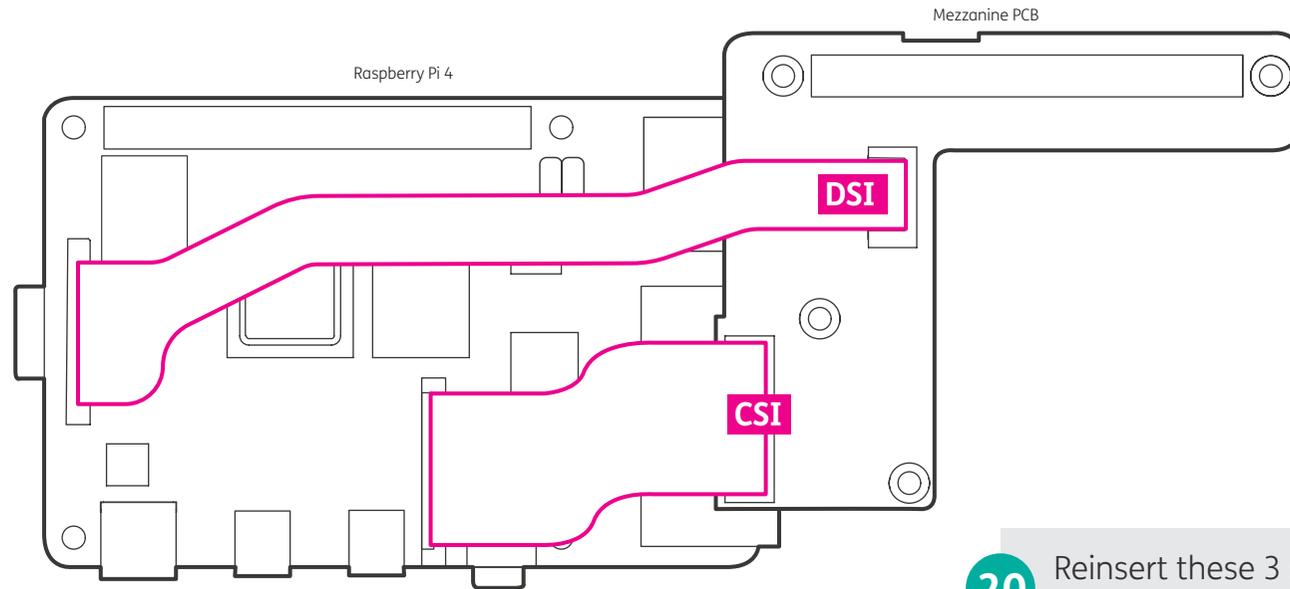


Attaching the Mezzanine PCB

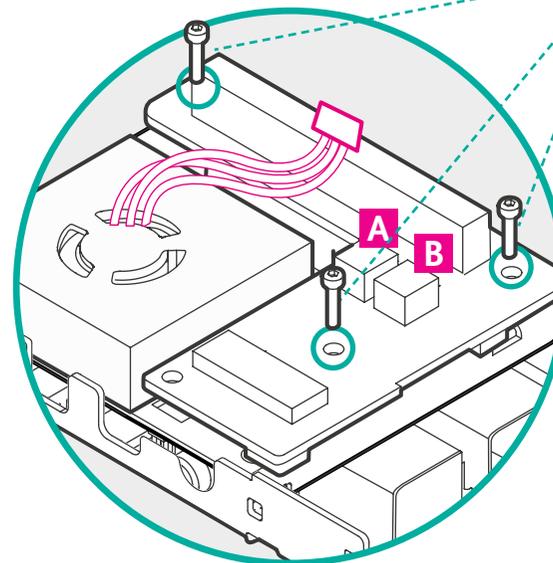
17 Lift the clasp on connector J5 on the base of the Mezzanine PCB and insert the **black DSI cable**. Secure the clasp.

18 Lift the clasp on connector J6 on the base of the Mezzanine PCB and insert the **black DSI cable**. Secure the clasp.

19 Flip the Mezzanine PCB over and align the 40 pin female port to the Raspberry Pi GPIO pins. Make sure the pins are correctly aligned and then push gently until the PCB is securely connected.



20 Reinsert these 3 screws on the Mezzanine PCB and make sure they are securely fastened.



21 **Connecting the fan**

Option A This connects to the micro-controller on the pi-top [4] to automatically regulate the temperature.

Option B Connect to this port if you want to run your own operating system and control it through GPIO PIN 12 (BCM pin number).

Note: this will only work correctly if pi-topOS is running on the SD Card. This is because the MCU needs Raspberry Pi CPU temperature data.

Reattaching the Raspberry Pi 4 chassis to the [4]

22

Insert the provided USB Plug into the bottom left USB port.

It is important to remember this step before you insert the Raspberry Pi enclosure in to the pi-top [4]!

23

Carefully slide the Raspberry Pi 4 chassis back into the pi-top.

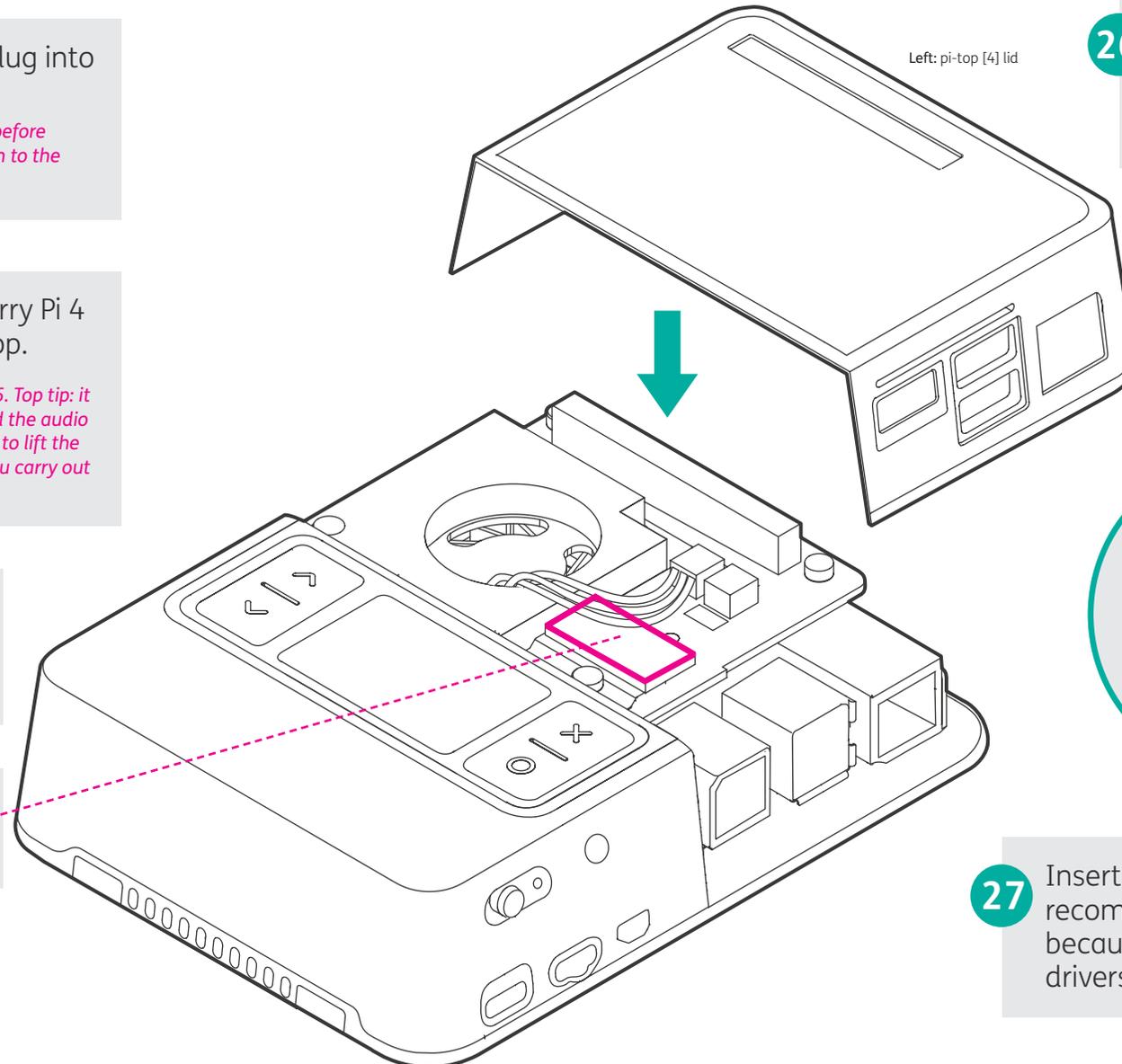
This step is the exact opposite of Step 5. Top tip: it helps to use the USB Plug (Step 22) and the audio jack as alignment indicators. Take care to lift the silver ribbon cable out of the way as you carry out this process.

24

Reinsert these 3 screws to secure the chassis to the pi-top [4].

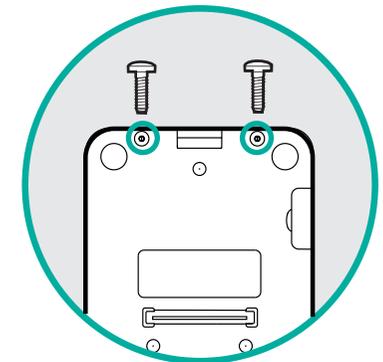
25

Reconnect the silver ribbon cable.



26

Click the pi-top [4] lid in place and secure with 2 screws at the base of the pi-top.



Above: Base of pi-top [4]

27

Insert an SD Card - we recommend using [pi-topOS](#) because all pi-top [4] hardware drivers are pre-installed.

pi-top

Raspberry Pi made simple,
robust and modular.

Having trouble?
Check out pi-top.com/support
for more information

pi-top.com

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