

Smarti Pi Touch Pro



Assembly instructions

Questions or missing parts? Email info@smarticase.com
Drawings and CAD files are available at smarticase.com

Power supply

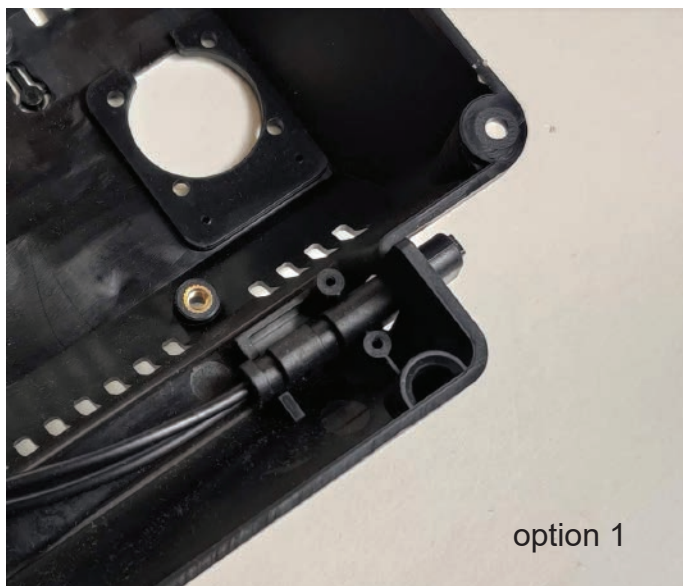
Always use a UL or CE marked wall power supply with the included splitter cables. Use a wall power supply that can deliver enough current for your application. For best results, use a 5.1 volt power supply to avoid low voltage warning on the display. The official Raspberry Pi power supply is recommended.

The splitter cables are only for use with the Raspberry Pi and Official Raspberry Pi display.

Raspberry Pi 2 and 3		Micro USB (Pi 2 and 3)
5.1 V 2.5A Micro USB Power supply recommended		
	Micro USB input	Micro USB (display)
Raspberry Pi 4		USB-C (Pi 4)
5.1 V 3A USB-C Power supply recommended		
	USB-C input	Micro USB (display)

Step 1

Please choose which splitter works your Raspberry Pi model. Insert the female end into the back cover as shown below. The cable can be assembled in either of two positions. Option 1 extends further out for easier access. Option 2 is the more compact option.



Step 2

Use the two small black screws to secure the small plastic retaining part to the back cover. This will hold the power cable in the case.



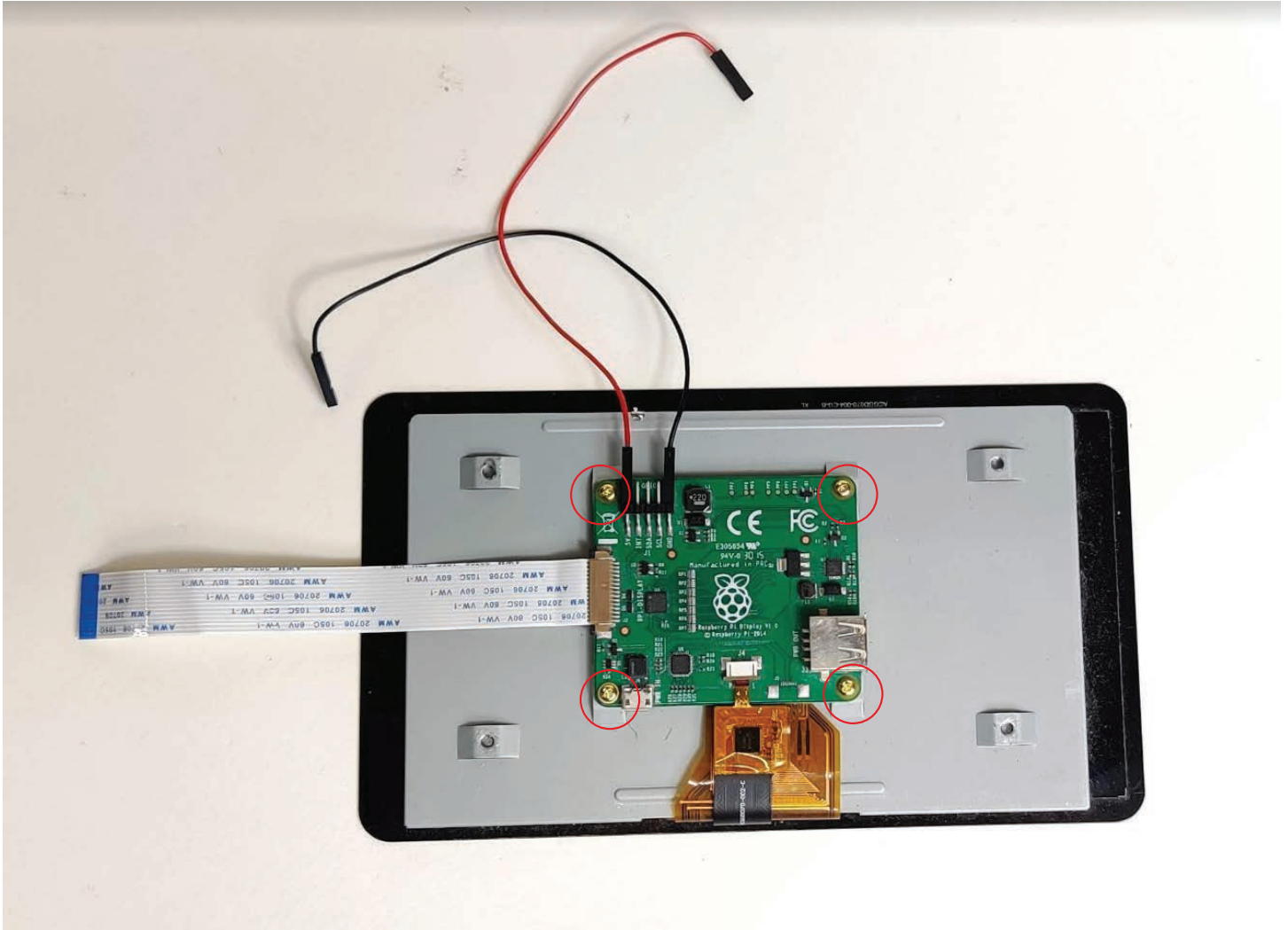
Step 3

Assemble the metal base on the bottom of the plastic base. The metal base can only properly assemble onto the base one way. Please make sure all of the holes are aligned. Use the four silver screws to attach the metal base to the plastic base. Assemble the screws as shown in the photo. Then assemble the adhesive rubber feet in the locations show below.



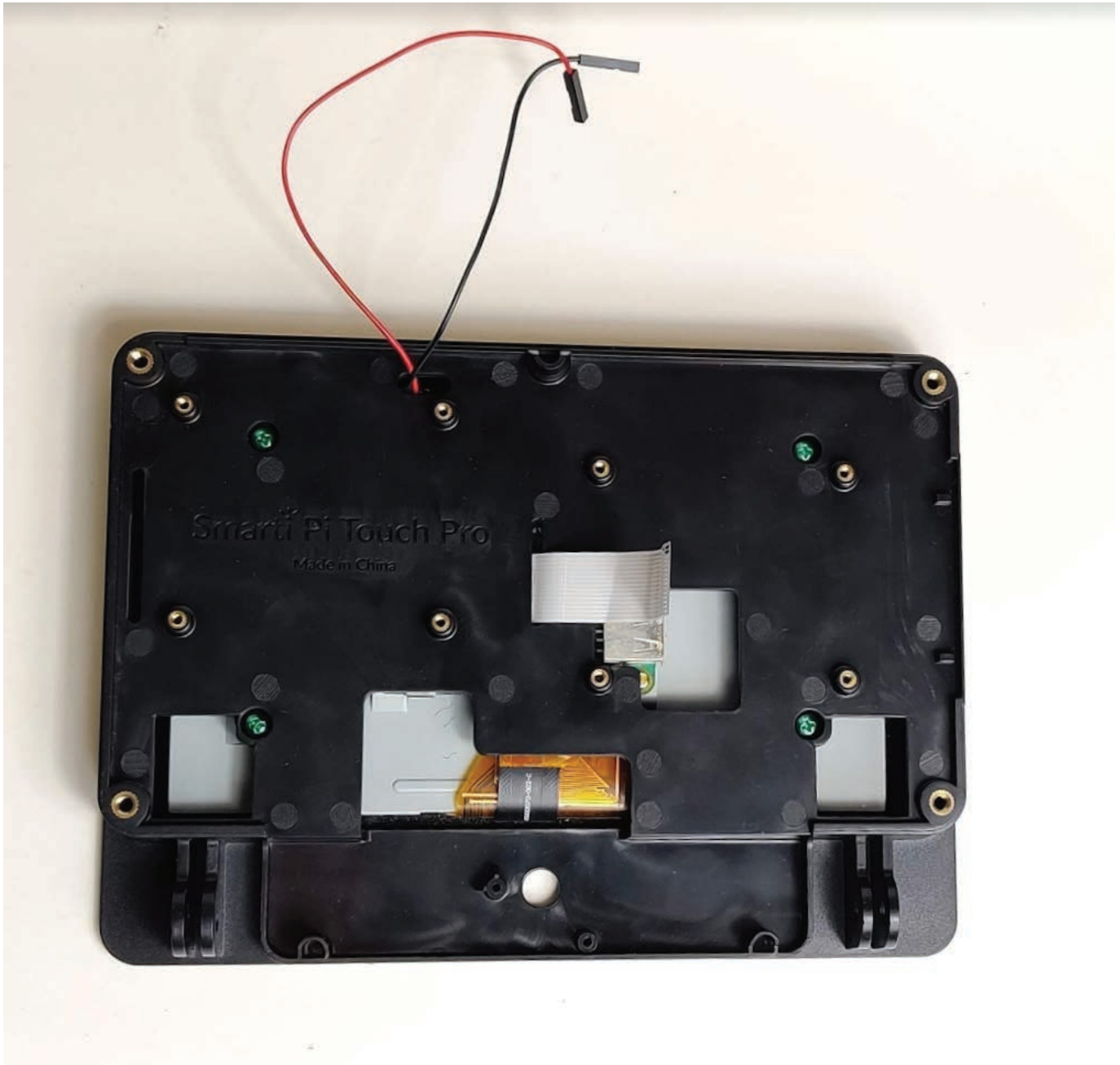
Step 4

Assemble one of the white ribbon cables with the contacts facing up to the display connection on the display board. If using the fan, connect the red jumper lead **that came with the display** to the 5v connection on the display board GPIO pins and the black jumper lead to the ground pin. Remove the standoffs that attach the display board to the display and replace with the provided gold screws (circled in red).



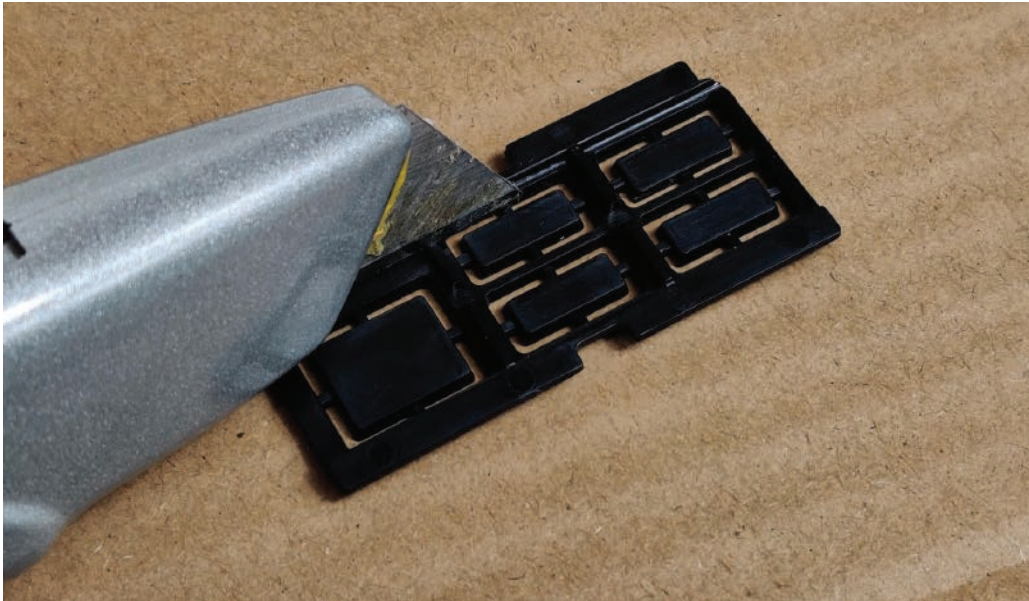
Step 5

Attach the display to the housing using the green screws as shown below. Feed the white ribbon cable through the slot in the center of the housing. Feed the fan power leads through the hole at the top.



Step 6

If using the port blocking part, from the back side cut out the desired ports with a utility knife. Two parts are included. One for Pi 2/3 and one for Pi 4.



Step 7

Assemble the port block part and the Raspberry Pi at the same time to the display housing. Use the standoffs that were removed in step 4 to hold the Raspberry pi in place.

You can also purchase additional m2.5 standoffs and screws to attach HAT boards or other hardware to the other set of m2.5 threaded inserts. (49mm x 58mm)



You can choose to mount the Raspberry Pi in the other set of brass inserts if you wish. Although you won't have access to the USB and ethernet ports from the outside. We offer small extension cables in our store that extend USB port access and audio jack access back out to the side of the case when mounting the Pi in this configuration.



Step 8

If you choose to use the camera hole, the Official Raspberry Pi camera can be assemble into the the camera hole with two of the small black screws. If you are not using the camera, proceed to Step 9.

To rotate the camera image 180 degrees

In a command line enter

```
sudo nano /etc/rc.local
```

Then go down and enter the following code above exit 0

```
v4l2-ctl --set-ctrl=rotate=180
```

Then enter CTRL+O to write out the file , then press Enter to confirm and then CTRL-X to exit.

Once rebooted that should have the camera rotated the correct way for most applications.



Do not overtighten the screws!

Step 9

If you chose to not use the camera, you can temporarily plug the hole with the small plastic cover part with two of the small black screws.

Alternatively, you can permanently cover the camera hole with the adhesive front panel. Do not have the plastic camera cover part installed when you apply the adhesive panel. The adhesive panel is not removable.

Custom artwork and logos can be added to this adhesive panel for bulk quantity purchases. Contact us for more info.



Or



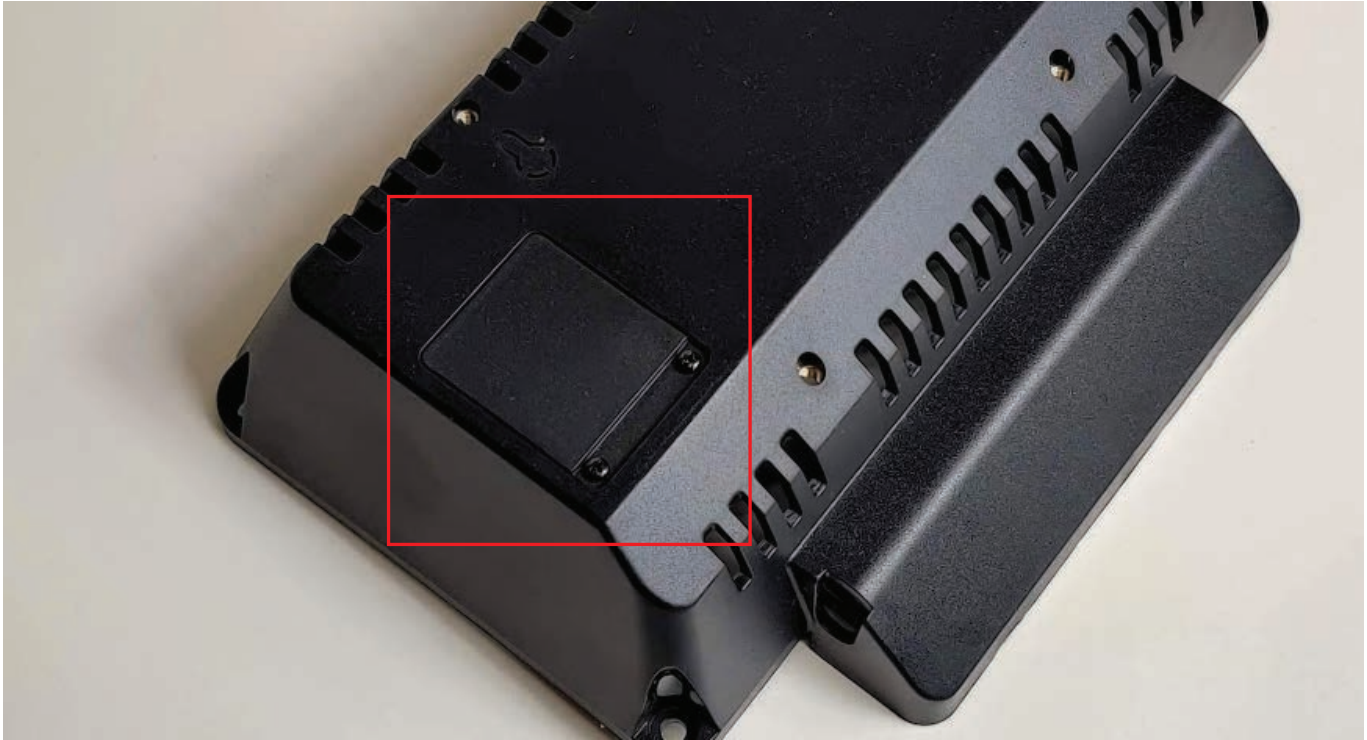
Step 10

Assemble the display housing to the stand with the large black screws and nuts. **DO NOT OVERTIGHTEN.** Loosely attach the screws at this point.



Step 11

If you choose to not use the fan, the small door can be assembled into the hole in the back cover and attach with two of the small black screws.



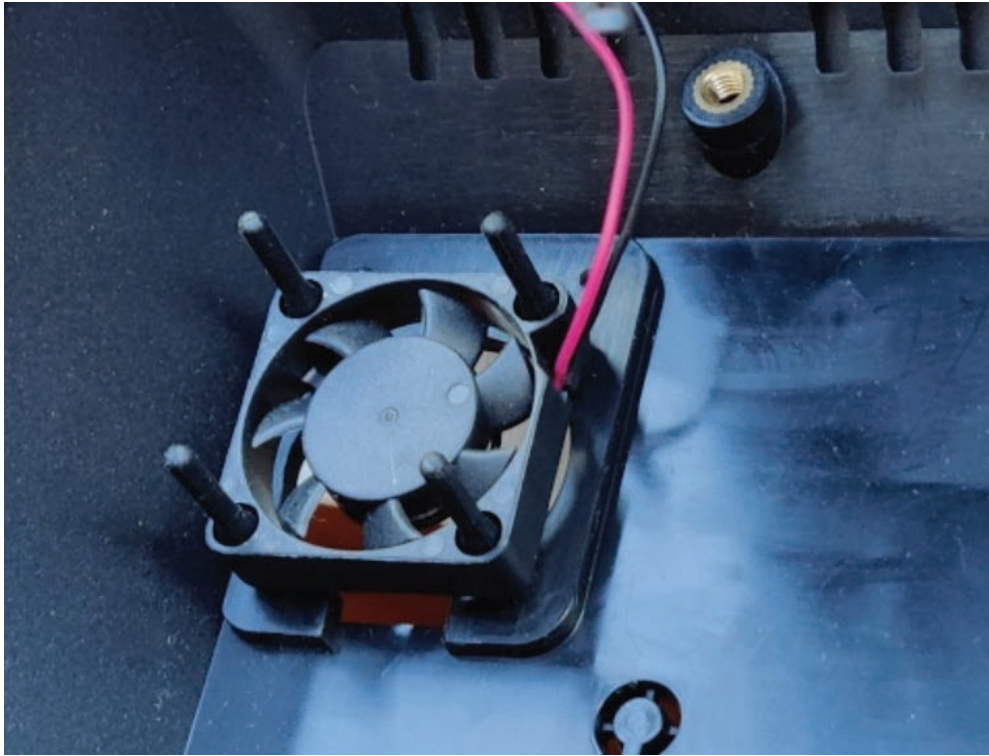
Step 12

If you choose to use the fan, attach the small rubber vibration mounts to the holes in the back cover as shown below. Push the small end of the mount through the back cover from the outside. Then pull it through the cover as shown.



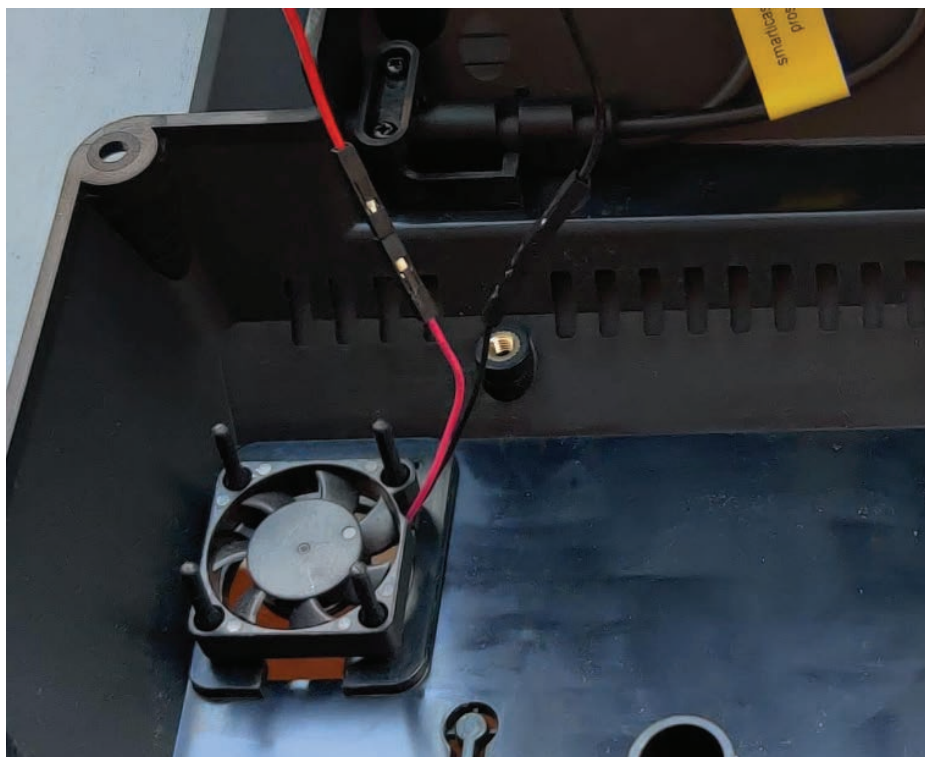
Step 13

Then pull the rubbers mounts through the fan holes and pull the thin end of the mount until the fan is mounted on the rubber mount as shown below. The fan should only be mounted in the way as shown below.



Step 14

Attach the power leads from the display to the red and black on the fan.

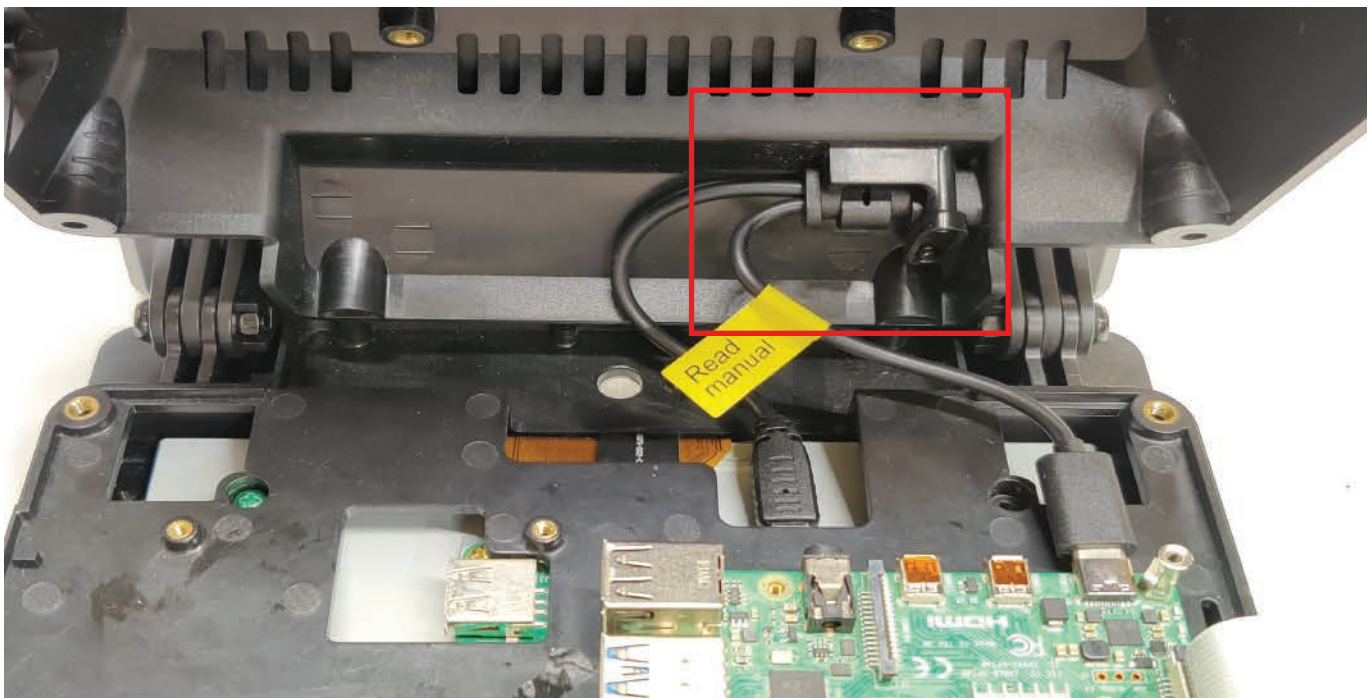


Step 15

Attach the power cables to the Pi and the display. You may choose to flip the position of the cable input so the power leads are not crossing each other and for more efficient wire routing.



If you are mounting the Raspberry Pi as shown below, you may need to mount the cable input at the farther out position and rotate the connector so that the Raspberry Pi cable lead is positioned closer to the Raspberry Pi as shown below.. This will give you more slack in the cable.



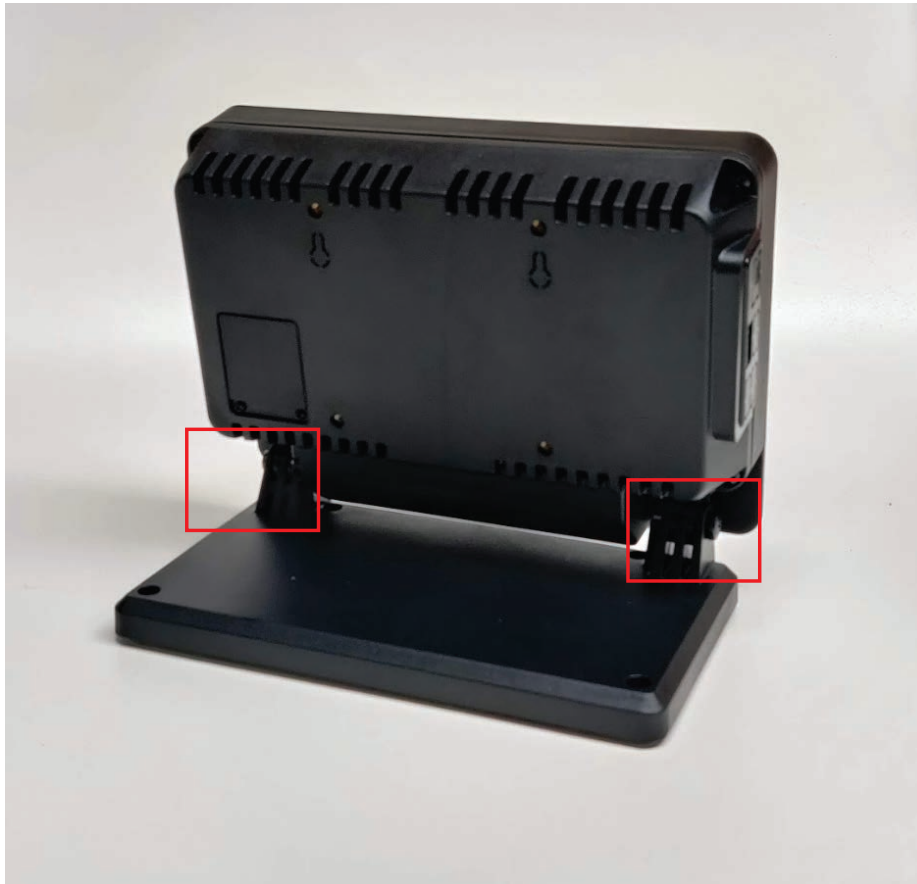
Step 16

Assemble the back cover to the display housing with the four black screws. The port blocking part should have tabs that fit inside the housing and cover.



Step 17

Adjust the angle of the display to suit you needs. Then tighten the pivot screws. **DO NOT OVERTIGHTEN.** Tighten the screws just enough to hold the display in place.



VESA mounts

75mm VESA mounts (circled in red) can be used to mount the display housing instead of using the stand. The threaded holes are size m4

Two eyelets can be cut out with a utility knife (circled in blue) to mount to a surface. The mounting points are 75mm apart.

