

Smarti Pi Touch Pro 3

Fan for Pi 5 installation guide

Step 1

Pull the rubber vibration mounts up through the holes in the housings. They are designed to stretch as you pull them through and should not break.



Step 2

Pull the rubber mounts through the fan holes and push down on the fan until it is secured like the photo. Attach the fan wire to the JST-SH connector on the Raspberry Pi 5.



Step 3

Once booted into PI OS the fan should only run when the temperature approaches 80°C.

If you want more granular control open a terminal window and edit the config.txt file with:

```
sudo nano /boot/firmware/config.txt
```

Next, you will define a custom fan speed profile in your configuration file. When setting your thresholds, keep in mind that the Raspberry Pi 5 begins thermal throttling at 80°C. To maintain peak performance, your profile should escalate the fan to 100% (value 255) as it approaches this temperature.

Here's a basic starter profile you can paste into your config file to get you going. The temp0 / temp1 / temp2 just indicates the different thresholds that you want to set different speeds for:

```
# Custom fan profile
```

```
dtparam=fan_temp0=50000 #50C
dtparam=fan_temp0_hyst=10000
dtparam=fan_temp0_speed=75 # ~30% speed

dtparam=fan_temp1=60000 #60C
dtparam=fan_temp1_hyst=10000
dtparam=fan_temp1_speed=150 # ~60% speed

dtparam=fan_temp2=70000 #70C
dtparam=fan_temp2_hyst=10000
dtparam=fan_temp2_speed=255 # ~100% speed
```