



## Lightweight 4010/5015 fan and 3DTouch mounter for Kingroon KP3S



Yohei Fukuma

[VIEW IN BROWSER](#)

updated 2. 7. 2023 | published 2. 7. 2023

### Summary

We've designed the lightweight mounter for the 4010 Hotend Fan, 5015 Section Fan, and 3D touch to the Titan Extruder...

[3D Printers](#) > [3D Printers - Upgrades](#)

Tags: [thingiverse](#)

We've designed the lightweight mounter for the 4010 Hotend Fan, 5015 Section Fan, and 3D touch to the Titan Extruder model and share it. The sensor layout we have to describe in robin\_nano\_cfg.txt of the 3D-touch compatible firmware assumes follows.

Z\_PROBE\_OFFSET\_FROM\_EXTRUDER -2.0 # Z : -below +above  
[the nozzle]

X\_PROBE\_OFFSET\_FROM\_EXTRUDER 22.0 # X : -left +right [of  
the nozzle]

Y\_PROBE\_OFFSET\_FROM\_EXTRUDER 0 # Y : -front +behind  
[the nozzle]

In addition, the firmware for 3D Touch often does not update the value of e-steps for KP3S 3.0 titan extruder, so it is recommended to check and update the value as follows.

```
DEFAULT_E0_STEPS_PER_UNIT 764 #E      (steps/mm)
```

After that, I designed a lighter fan cover, so if you are interested, I would be grateful if you could take a look. <https://www.thingiverse.com/thing:5249055>

[Related upgrade parts for Kingroon KP3S]

Kingroon KP3S full assembly STP/Obj data <https://www.thingiverse.com/thing:4889303>

Lightweight spool-holder v23 for Kingroon KP3S, Aquila & Ender3 <https://www.thingiverse.com/thing:4889506>

Holder PSU for Kingroon KP3S <https://www.thingiverse.com/thing:4889524>

Raspberry Pi mounter for PSU of KP3S, Ender3 Pro etc. <https://www.thingiverse.com/thing:4901825>

Raspberry Pi Camera mounter for PSU of KP3S, Ender3 Pro etc. <https://www.thingiverse.com/thing:4906048>

(In Japanese)

Titan Extruder            4010 Hotend Fan    5015 Section Fan, 3Dtouch  
                                 3D-touch    firmware robin\_nano\_cfg.txt

```
Z_PROBE_OFFSET_FROM_EXTRUDER -2.0 # Z    : -below +above  
[the nozzle]
```

```
X_PROBE_OFFSET_FROM_EXTRUDER 22.0 # X    : -left +right [of  
the nozzle]
```

```
Y_PROBE_OFFSET_FROM_EXTRUDER 0 # Y    : -front +behind  
[the nozzle]
```

3D Touch                    KP3S 3.0 titan extruder    e-step

```
DEFAULT_E0_STEPS_PER_UNIT 764 #E      (steps/mm)
```

:3D Touch                    - KINGROON KP3S    [http://hitoriblog.com/kingroon\\_kp3s/docs/how\\_to\\_do\\_automatic\\_bed\\_leveling\\_with\\_kingroon\\_kp3s/](http://hitoriblog.com/kingroon_kp3s/docs/how_to_do_automatic_bed_leveling_with_kingroon_kp3s/)

<https://>

[www.thingiverse.com/thing:5249055](https://www.thingiverse.com/thing:5249055)

cf. Imported from the following on 2023.07.02.  
<https://www.thingiverse.com/fukumay/designs>

## Model files



holder\_fan\_kp3s\_v12.stl

[Find source .stl files on Thingiverse.com](#)

## License ©



This work is licensed under a  
[Creative Commons \(4.0 International License\)](#)

**Attribution—Noncommercial—Share Alike**

- 
- ✖ | Sharing without ATTRIBUTION
  - ✓ | Remix Culture allowed
  - ✖ | Commercial Use
  - ✖ | Free Cultural Works
  - ✖ | Meets Open Definition