



Voron 0.2 foot with button and filament runout sensor



Livingroom Workbench

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Summary

This foot has a button in addition to the filament sensor of the 0.2r1 so you can (un)load filament directly

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Tags: [voron](#) [v0](#)

This foot has a button in addition to the filament sensor of the 0.2r1 so you can (un)load filament directly using this button.

Using the attached config, pressing the button will unload the filament if the filament sensor is triggered and load it if the sensor is not triggered. So to load filament you first press the button and then feed the filament in.

Print the part in the original orientation with the exit port of the filament on the build plate.

Disclaimer: I did not print the 0.2r1 version yet!

Parts needed:

- D2F-L switch (same as for the runout sensor itself)
- Printed slider part

- Printed foot
- Cable
- JST-XT connector (to plug the switch into your mainboard) or something else

Instructions:

- Assemble the foot according to the manual
- Solder the cable onto the switch. The side that's further into the foot (the one with the actual switch) needs to be soldered in a 90° angle so you can still slide the button in
- Put the button onto the slider and slide it into the foot.
- Add the connector to the other side of the cable
- Plug it in :D
- In case you have a SKR Pico, see the marked pins on the image and the config below works out of the box, otherwise update the pin

```
## Filament Sensor 1 [filament_switch_sensor runout_sensor] switch_pin:
gpio16 pause_on_runout: True [gcode_button unload_button] pin: ^gpio29
# remove the negation "!" for sensor v1 - use just PA10 as example
press_gcode: release_gcode: # filament unload procedure {% if
(printer.print_stats.state != "printing")%} # requires [virtual_sdcard] {% if
(printer["filament_switch_sensor runout_sensor"].filament_detected ==
True)%} # requires [virtual_sdcard] UNLOAD_FILAMENT {% else %}
LOAD_FILAMENT {% endif %} {% else %} M117 Printing! Can't unload
filament right now! {% endif %}
```

Model files



foot_rear_right_runout_sensor_x1_02r1.stl



foot_rear_right_runout_sensor_x1_02.stl



button-mount.stl



runout-sensor-foot-v5.f3z

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