

# Creality Ender 3 S1

Unboxing, assemble, initial leveling, print video:

[https://www.youtube.com/watch?app=desktop&v=Z2n3ATTNQpc&ab\\_channel=Pergear](https://www.youtube.com/watch?app=desktop&v=Z2n3ATTNQpc&ab_channel=Pergear)

<https://www.youtube.com/watch?v=AghQEvW-4JQ>

Replacing Filament mid-print: <https://www.youtube.com/watch?v=tCDtsEs51D8>

## Materials

Material settings: PLA 60C Hotbed, 200C Nozzle, for long narrow prints use 65-70C Hotbed temp ABS 100C Hotbed, 240C Nozzle, ensure no drafts during print

Warping on long models:

Set to 60 to 65 degree and im am cooling it down after first layer by 3-8 degree to 57°). Also tried reduce the temperature from the bed to 50-55 but Amazon Basic PLA (which is known for bed layer adhesion...) don't seem to stick well with this setting.

I reduced the fan speed and i enable the fan at layer 3 instead of 2 (also read that some people start fan at layer 5). This seems to work for now....

In general i would suggest to reduce bed heat as much as possible and maybe reduce the z-offset so that the first layer is literally pressed onto the bed. (Attention to not scratch your build plate) - (Check with first layer calibration prints which z-offset is the minimum to still have a nice first layer)

## Webcam holder

Note that the standard webcam/tripod/camera mount screw is 1/4-20 UNC = 6.35mm with 20 thread size. An M5/M6 screw does NOT fit.

Ender 3 s1 Modular webcam mount by Taylorthomas <https://www.thingiverse.com/thing:5414618>

<https://www.printables.com/model/328522-ender-3-s1-webcam-mount>

<https://www.thingiverse.com/thing:5199333> <https://www.thingiverse.com/thing:5349102>

<https://www.printables.com/model/273755-ender-3-s1-universal-webcam-mount> Gantry Camera

Mount for Ender-3 S1 by Superman889 <https://www.thingiverse.com/thing:5476426>

<https://printingatoms.com/how-to-connect-camera-to-ender-3/>

Ender 3 Raspberry Pi Camera Mount <https://www.thingiverse.com/thing:3188580>

## Official Creality LED Light bar

<https://www.amazon.co.uk/Creality-Official-3D-Printer-Upgrade/dp/B09VH3NMHP>

The instructions are quite bad, so here are a couple pointers:

- It doesn't matter which LED power plug goes into the switch on the right hand side
- To screw it in, remove the blind plastic pieces at the top of the Z Axis
- for cable routing use the same path as the filament sensor cable. The blind snaps off and back on:

<https://www.youtube.com/watch?v=LifRM4gGVi0>

Ender 3 S1 Light Bar Cable Cover by kaimimue <https://www.thingiverse.com/thing:5968849>

## S1/ S1 Pro parts

Bed screw locks <https://www.thingiverse.com/thing:6070269/comments>

Ender 3 S1/Pro extruder cable holder/guide by Bananenminister

<https://www.thingiverse.com/thing:5532813>

<https://www.printables.com/de/model/297182-ender-3-s1-pro-extruder-cable-holder-curaprofiles>

Ender-3 S1 Easy Space Saver Control Mount - Easy Print (S1 Pro & V2 as well) \*new version 1.02 link in notes by Zakor <https://www.thingiverse.com/thing:5368309>

Ender 3-S1 Tray Organizer Insert <https://www.thingiverse.com/thing:5971430> or: Creality Ender 3-S1 - tray insert/Organizer By-N\_G by N\_G4ever <https://www.thingiverse.com/thing:5499212>

Needs to be printed in ABS, bottom part and motor cover: Ender 3 S1 Bed Cable Angle by MrPiouPiou <https://www.thingiverse.com/thing:5417098> and remix of top part: Ender 3 S1 Bed Cable Angle by Phipsi12 <https://www.thingiverse.com/thing:5531129/files> About 1-2mm of overhang from the original connector needs to be removed to prevent the connector from catching the Z Axis motor.

Ender 3 S1 Flexible flat cable holder by Alei100 <https://www.thingiverse.com/thing:5244810>

Ender 3 S1 Cable Guide by chewduh <https://www.thingiverse.com/thing:5754766>

to check:

Ender 3 s1-things - Search

<https://www.thingiverse.com/search?q=Ender+3+s1&page=25&type=things&sort=relevant>

Ender 3 S1 Pro Filament Spool Clip by hayden-t <https://www.thingiverse.com/thing:5418824>

Ender 3 S1 - Torre de Temperatura - PRUSA Slicer by MatuKing

<https://www.thingiverse.com/thing:5418757>

## Bed Handle

Ender 3 S1 bed handle by DontKickTrees <https://www.thingiverse.com/thing:5784354>

Ender 3 S1 Handle for Bed by DevaZ <https://www.thingiverse.com/thing:5746990>

## Cable Chains

Ender 3 s1 cable chain by GreySid <https://www.thingiverse.com/thing:5574037>

Ender 3 S1 Pro Cable Chain by Selinuahs <https://www.thingiverse.com/thing:5916206>

Ender 3 S1 / Neo x Micro Swiss Direct Drive Cable Chain & right side carriage mount by hviet17 <https://www.thingiverse.com/thing:5708954>

Ender 3 S1 Pro - Heat Cable Chain by krebstiago <https://www.thingiverse.com/thing:5800678>

Ender 3 S1 Bed Cable Chain by Achaios <https://www.thingiverse.com/thing:5834115>

Ender 3 S1 Pro - Extruder Cable Chain by krebstiago <https://www.thingiverse.com/thing:5800864>

## Bed Level Lock

Ender 3 S1/S1 pro - Locking Bed Level Knob by ajcam44 <https://www.thingiverse.com/thing:5908385>

Ender 3 S1 Pro Bed Level Lock by squat0001 <https://www.thingiverse.com/thing:5903091>

Bed Adjustment Wheel Clip by alei100 <https://www.thingiverse.com/thing:5387968>

## Sensor mount

Ender 3 S1 and S1 Pro filament sensor bracket by mddatthngvrs <https://www.thingiverse.com/thing:5419960>

Sensormount - Creality Ender 3 S1 by jodill <https://www.thingiverse.com/thing:5571665>

Ender 3 S1 Filament Sensor Mount / Holder Rotated Version by joaolsneto <https://www.thingiverse.com/thing:5332875>

Ender 3 S1 runout sensor bracket by beefdrip <https://www.thingiverse.com/thing:5905176>

## Display mount

Ender 3 S1 display bracket display mount by KennethBernal <https://www.thingiverse.com/thing:5407497>

Rotatable screen for Ender 3 s1 and s1 Pro by JohannBreid <https://www.thingiverse.com/thing:5863301>

Display Holder for ALL ender 3 s1 screens (knob and touchscreen) (Separate from printer) by HankTank109\_ <https://www.thingiverse.com/thing:5626066>

# Sonic Pad

Enable root access: How to find the root password for Creality Sonic Pad:

1. Select "Other Settings" from the Creality Sonic Pad interface.
2. Select "Advanced Options"
3. Select "Root Account"

root pw: cxsw-sonic\_2023

root@spad-3858:/mnt/UDISK/printer\_config# vi moonraker.conf

create .ssh/config entry and add something like the following

```
Host spad
  HostName 192.168.1.13
  Port 22
  User root
  HostKeyAlgorithms+=ssh-rsa
  PubkeyAcceptedKeyTypes +ssh-rsa
```

Transfer ssh id to host either by editing/creating /etc/dropbear/authorized\_keys or using copy\_ssh\_id

```
ssh-copy-id -oHostKeyAlgorithms+=ssh-rsa root@192.168.1.13
```

For OctoPrint, enable compat mode in moonraker.conf

Input shaping: Bracket holder STL files are on the provided usb stick.

Resonance Measurement configure → other settings → Advanced options → Measuring Resonances  
Select printer (moving print bed or static print bed) connect sensor to sonic pad Connect sensor to  
print head via bracket Test takes about 3 minutes detach sensor from print head and connect to print  
bed sonic pad will reboot

disable slicer acceleration control (cura etc)

klipper added input\_shaper section in printer.cfg

```
# [resonance_tester] # accel_chip: adxl345 # accel_per_hz: 70 # probe_points: # 117.5,117.5,10
```

```
[input_shaper] #shaper_type_x = mzv #shaper_freq_x = 56.4 #shaper_type_y = mzv #shaper_freq_y  
= 36.2
```

<https://m.youtube.com/watch?v=LGsbYTR7shk> <https://m.youtube.com/watch?v=TKInn-KMe9g>

[https://m.youtube.com/watch?v=B\\_zB5UHMZws](https://m.youtube.com/watch?v=B_zB5UHMZws) <https://m.youtube.com/watch?v=Kr2R5b8Z1y0>

## Cura and Klipper/Sonic Pad

<https://all3dp.com/2/cura-klipper-tutorial/> - disable coasting in cura (interferes with klipper's pressure advance) - disable acceleration control and jerk control in speed settings tab - set Cura's retraction

distance to 0.75 or 0.8 mm

Addons from marketplace: **arc welder**

### **moonraker connection**

1. Install and restart cura
2. Go to "Settings > Printer > Manage Printer" and select "Connect Moonraker".
3. Now configure the URL for your Klipper-Moonraker instance using the IP address.
4. Optionally add the identifiers of any powered devices you've configured in Klipper (e.g. LED lights), and add a camera URL if installed.
5. Choose to upload G-code or UFP files. Configuration settings are saved when this window is closed.

After slicing a model, the usual file save options will now include the prompt "Upload to <Printername>" that pops up a window where you can change file names and set other details. It's as simple as that!

From:

<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:

<http://wuff.dyndns.org/doku.php?id=3dprinter:ender3s1&rev=1701379175>

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