

Bear Lab

Preventing Fire Hazards

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Step 1 — Disclaimer



⚠ The information provided on this page is to help and inform the 3D printing community. We are not firefighters and we cannot be taken as responsible in case something goes wrong with your 3D printer or hardware.

Step 2 — Precautions List



- Install a fire/smoke alarm.
- Install a fire extinguisher close to your printer. Contact a local company to select the appropriate type and size.
- Keep up to date and comply with all electrical and fire regulations and laws of your country of residence. Talk to your insurance to make sure you are correctly covered.
- Do not store flammable products like isopropyl alcohol (IPA) next to your printer or in the enclosure of your printer.
- Do not let the printer running without surveillance and without ability to react quickly in case of problem.
- Main voltages are dangerous and high risks of serious issues. Ask the help of a professional for any modification.
- Inform your neighbor that you have a 3D printer and a fire alarm.

Step 3 — Regular Precautions



- Ask for support or advice if you are not sure about a modification you are planning to implement.
- Regularly check that connectors are fully seated and that no evidence of overheating or melting. Search for scratches, bulges, sharp angles all along the wires of your machine.
- Order/install hardware and software from trusted and known vendors or manufacturers.
- Upgrade your firmware to latest stable version.
- Clean dust and plastic parts on and around your printer.
- Test the firmware safety features using our guide here: [Checking Firmware Safety](#).

Step 4 — Bear Project Scope



- The Bear Project is not a company, it is a project that helps to make your 3D printing experience better. You are responsible for your upgrades and any damage you may cause.
- The Bear Project can only officially provide support for
 - The original Prusa hardware and software
 - The Bear frame supplied by our official distributors
 - The Bear extruder (with the calibration firmware used only for calibration and selftest)
- You need to use our recommended filament and print settings because those are the conditions used to design and test our products.
- We are providing optional parts for other extruders or hardware but unfortunately we don't have time to test them and so we can't support them officially. Those optional parts might require different firmware over which we have no control and don't know how well they are tested. Please refer to their manual, assembly instructions and support.

Step 5 — Contact



- If you find a safety issue, or have any concerns with any of our project material, please stop using it and contact us via our community platforms:
 - GitHub (main): github.com/gregsaun
 - GitHub (for firmware): github.com/bear-lab-3d
 - Mastodon: https://fosstodon.org/@bear_lab
 - Twitter: twitter.com/gregoiresaunier
 - Discord: greg_bear#0545 or greg_bear

Step 6 — Going Further



Everything you need to know
to make your 3D printer...

- If you want to take further safety measures, we highly recommend that you watch the video by **Thomas Sanladerer** "Everything you need to know to make your 3D printer fireproof!":

https://youtu.be/VK_K6fp4Blk