

Scalar XL 3D printer: Assembly instructions

You will find here the different steps illustrated showing you how to build your Scalar XL 3D printer.

Each step is heavily documented with a detailed description, pictures and a video tutorial.

Prerequisite:

1. [Tools needed](#)

1. [The different kinds of extrusion profiles](#)

Assembly instructions steps

1. [Chassis assembly](#)
2. [X axis assembly \(Horizontal\)](#)
3. [Z axis assembly \(Vertical\)](#)
4. [Build platform](#)
5. [Y axis belt setup](#)
6. [End Stops setup](#)
7. [X axis belt setup](#)
8. [Hot End Installation \(E3D V6\)](#)
9. [Hot End Installation \(AluHotEnd\)](#)
10. [12v 360w power supply installation](#)
11. [Wiring of the power supply on the chassis](#)
12. [Direct Drive Assembly](#) (from 17/10/2016)
13. [Extruder assembly on the chassis](#)
14. [Fixation of the electronics on the chassis](#)
15. [Electronics wiring](#)
16. [Extruder Calibration](#)

First steps

1. [First use caution](#)
2. [Filament installation \(Bowden version\)](#)
3. [Extruder Calibration](#)
4. [Commissioning your 3D printer](#)
5. [First steps with cura](#)
6. [what is the best layer height for your 3D printer](#)
7. [Firmware upgrade \(Version 1.1.5 available 22/09/2017\)](#)
8. [Need some Help ? Read the FAQ](#)

Manuals of already pre-mounted parts

1. [12V 360W power supply assembly](#)
2. [E3D V6 Full Metal hot end assembly](#)
3. [AllInOne Full Metal Hot end assembly](#)
4. [Y axis assembly](#)
5. Extruder Assembly
6. [Heat bed assembly \(Obsolete\)](#)
7. [Heat bed assembly V2 \(All aluminum\)](#)
8. [Electronic assembly](#)

Calibration

1. [Extruder Calibration](#)
2. [PID Tuning](#)
3. [How to improve /Fix Z Woobble](#)

Additional Resources

1. [Play audio/Music when you print ends](#)
2. [Atx power supply conversion for 3d printer usage](#)
3. [Inductor probe wiring diagram](#)

Spare parts to print

- [« MediKit » of spare plastic parts you need](#)
- [Full kit of plastic parts](#)

Available Accessories:

- [Smoke detector kit](#)