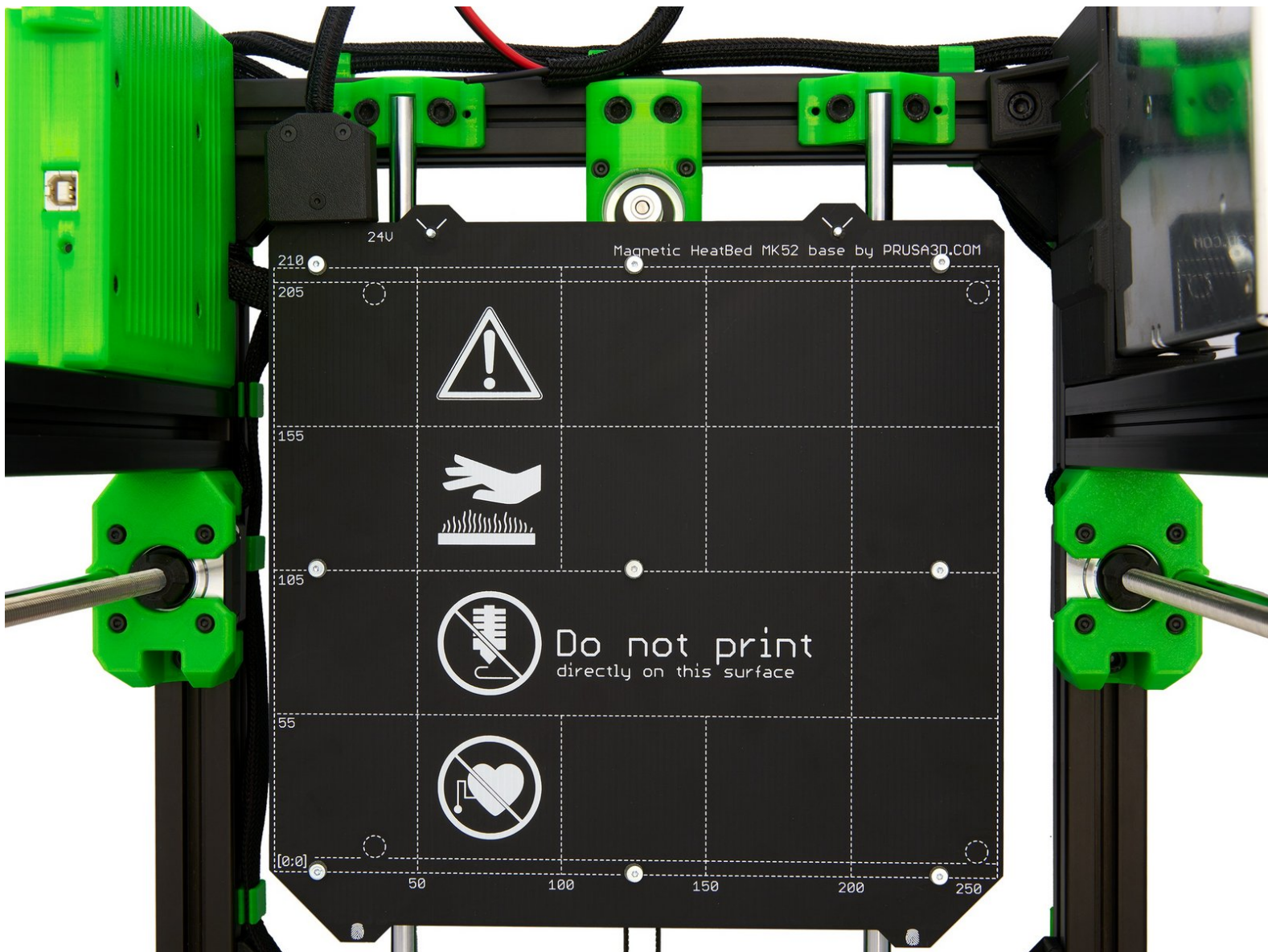


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11. Installation of the Heatbed

Written By: Katja Aller

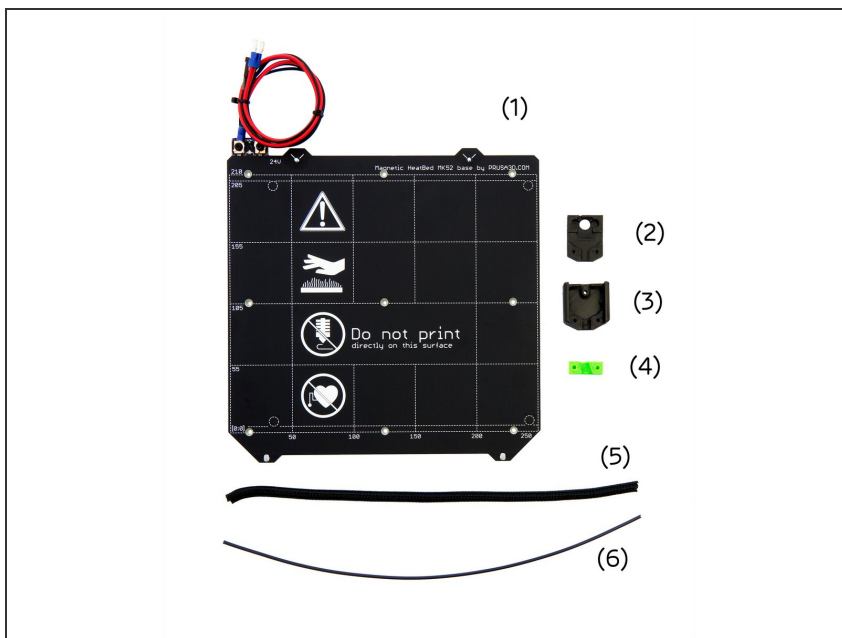


Step 1 — Required Tools



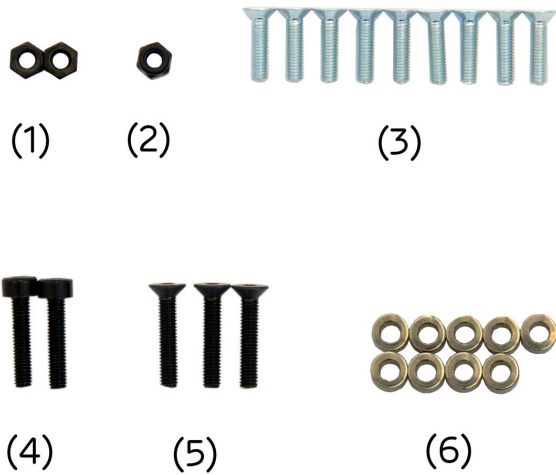
- (1) [2.0x75mm Hexagonal Screwdriver](#)
- (2) [2.5x75mm Hexagonal Screwdriver](#)
- (3) [5.5 x 125mm Nutdriver](#)
- (4) [PH2 Screwdriver for Phillips Screws](#)
- (5) Lighter

Step 2 — Assembling the Parts



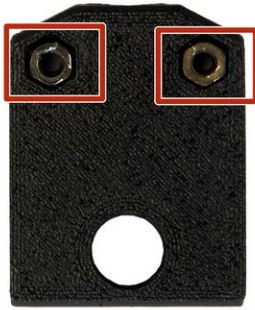
- (1) [MK52 Heatbed](#)
- (2) Heatbed Cover Bottom
- (3) Heatbed Cover Top
- (4) Cable Holder Angled
- (5) [32cm Techflex-Cable Tube \(Diameter 6,4mm\)](#)
- (6) 34cm Nylonfilament

Step 3 — Assembling the Screws



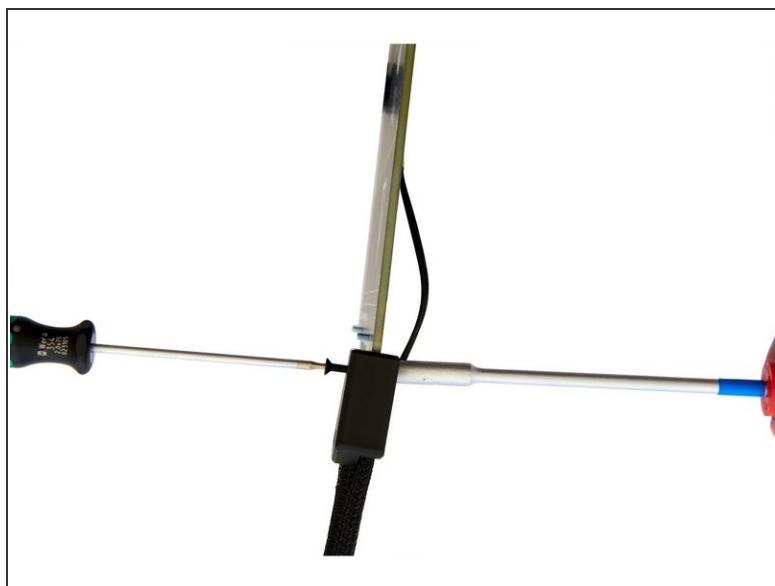
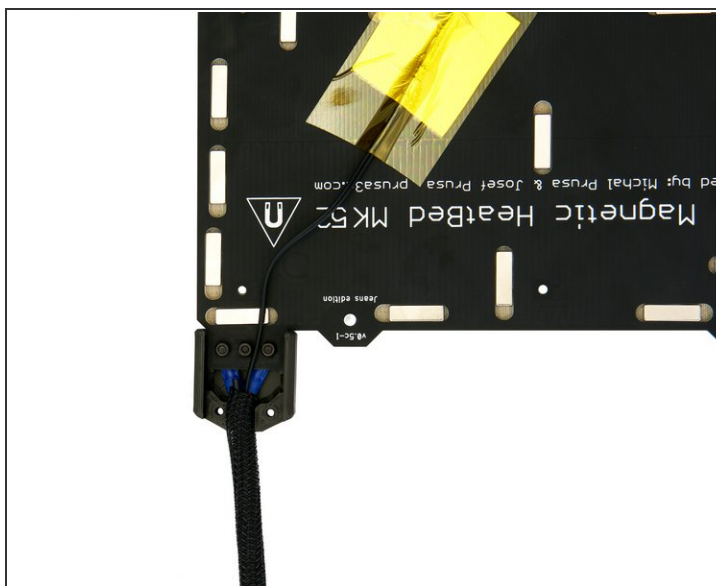
- (1) **2x** [M3 Nuts](#)
- (2) [M3 Self-Securing Nuts](#)
- (3) **9x** [M3x12mm Countersunk Screws \(silver\)](#)
- (4) **2x** [M3x14mm Hexagon Socket Head Cap Screws](#)
- (5) **3x** [M3x16mm Flat Head-Head Socket Cap Screws](#)
- (6) **9x** [Heatbed Spacers](#)

Step 4 — Installing the Heatbed Cover (1 / 3)



- Insert **2x M3 Nuts** into the holes provided in the lower heatbed cover.
- Shorten the Techflex tube to a length of 32cm. Briefly heat the two ends with a lighter.
- Shorten the nylon filament to a length of 34cm and push it through the Techflex tube.
- Now, push the heatbed cables and the heatbed thermistor cable through the Techflex tube.

Step 5 — Installing the Heatbed Cover (2 / 3)



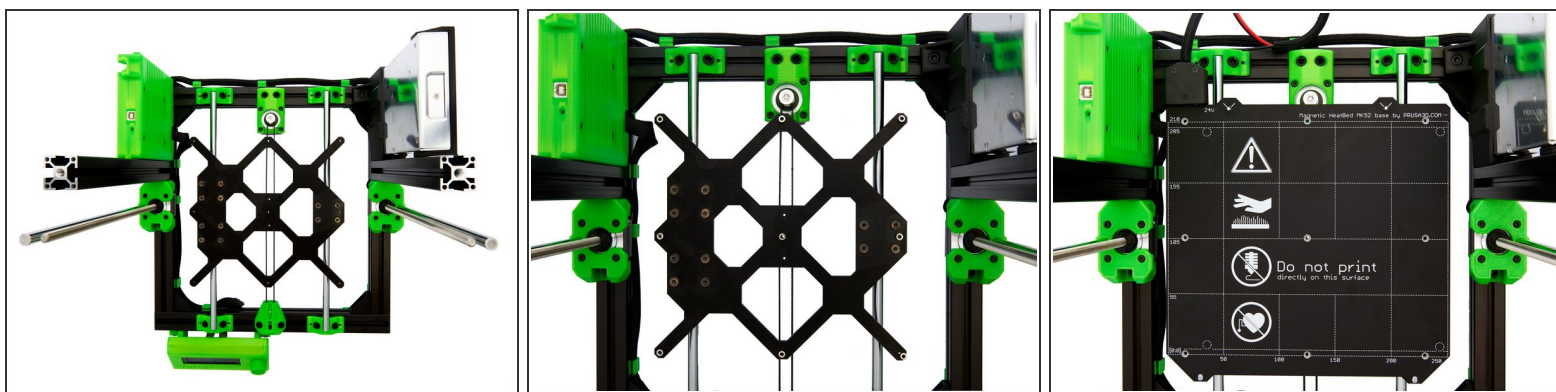
- Place the Heatbed Cover Top on the cables on the heatbed and fasten it with a **M3x16mm Countersunk Screw (silver)**.
- The screw is fastened from below with a **M3 Self-Securing Nut**.
 - ① The installation of the M3 Self-Securing Nut can be made easier with the use of a socket wrench (5.5x125mm).
- Make sure that about 1cm of the nylon filament sticks out at the end.
- Slide the Techflex tube and the nylon filament under the cover.

Step 6 — Installing the Heatbed Cover (3 / 3)



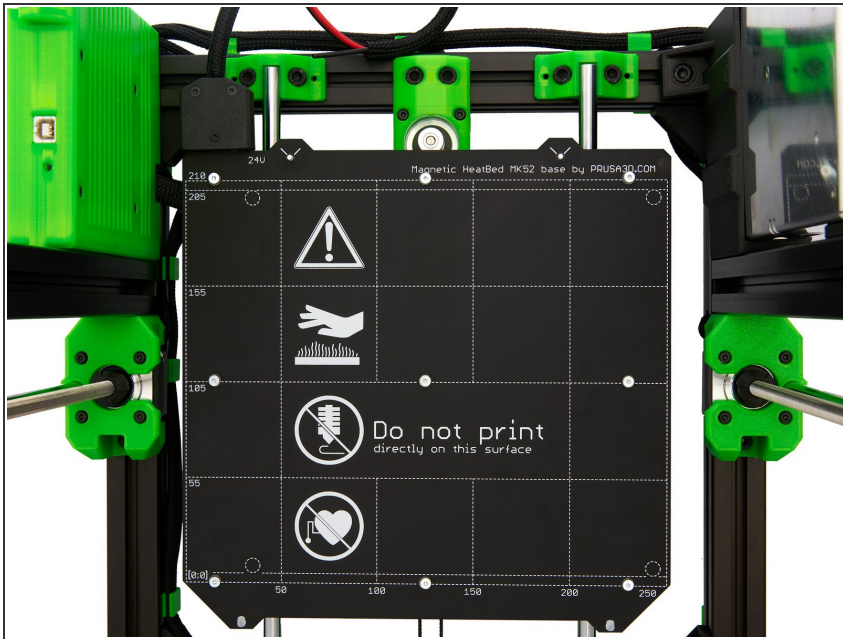
- Place the Heatbed Cover Bottom onto the Heatbed Cover Top and ensure that the thermistor cable is routed through the slot in the Heatbed Cover Bottom.
- Now fasten the Heatbed Cover Bottom with **2x M3x16mm Countersunk Screws (silver)**.
- Be careful not to pinch the thermistor or the Techflex tube.

Step 7 — Installing the Heatbed (1 / 3)



- Pull the y-carriage to the front of the frame.
- Place **9x Heatbed Spacers** on the threaded holes in the y-carriage.
- Carefully place the heatbed on the spacers. Then, check the positions of the spacers under the heatbed.

Step 8 — Installing the Heatbed (2 / 3)



- Using **9x M3x12mm Countersunk Screws (silver)** loosely" fasten the heatbed to the y-carriage.

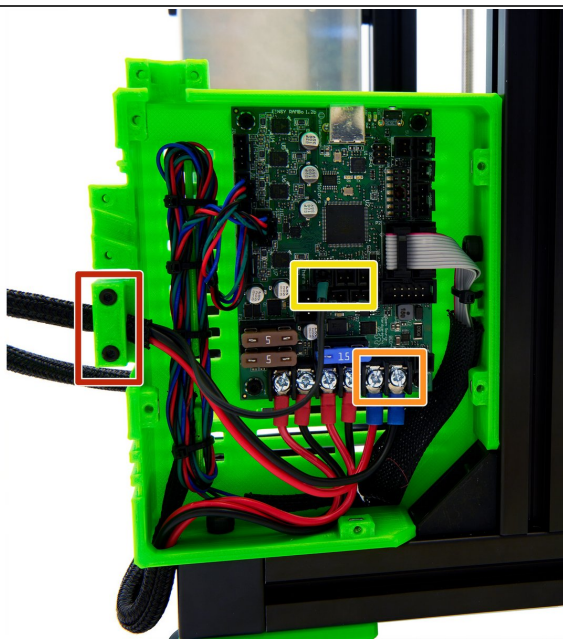
Step 9 — Installing the Heatbed (3 / 3)



- Now, place a long straight object, (e.g. a ruler or an aluminum extrusion) between the z-stepper motor and the z-profile on the heatbed (see Fig. 1).
- Press the selected object against the front of the z-profile and use the lines on the heatbed to check whether it is aligned straight.
- When the heatbed is aligned straight, tighten the **9x M3x12mm Countersunk Screws (silver)**.

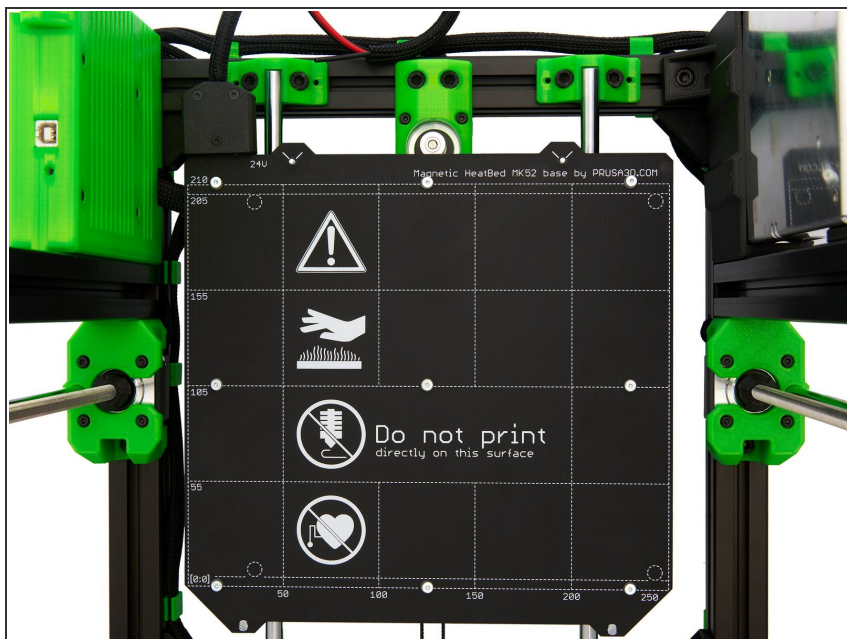
⚠ If the heatbed can *not* be straightened even by turning it slightly, you must unscrew it again and realign the underlying y-carriage (see manuals [03.1.](#) / [03.2.](#)).

Step 10 — Wiring the Heatbed



- Place the end of the Techflex tube, with the heatbed cables and heatbed thermistor, into the lower cable guide on the left side of the Einsy Box.
- Fix the cable tube with an angled cable holder and **2x M3x14mm Hexagon Socket Head Cap Screws**.
- Attach the heatbed cables to the two right connections using the PH2 Phillips screwdriver (see Figure 2).
- Plug the heatbed thermistor into the right one of the three connectors.

Step 11



- The heatbed is now fully installed.
- Continue with instructions [12. Assembly of the x-Axis](#).