

Installation of Core-XY-Head 3D Printer



Step 1 Assemble Base Frame

Parts:

2020 Aluminium profile 355mm – 2pcs

2020 Aluminium profile 380mm – 2pcs

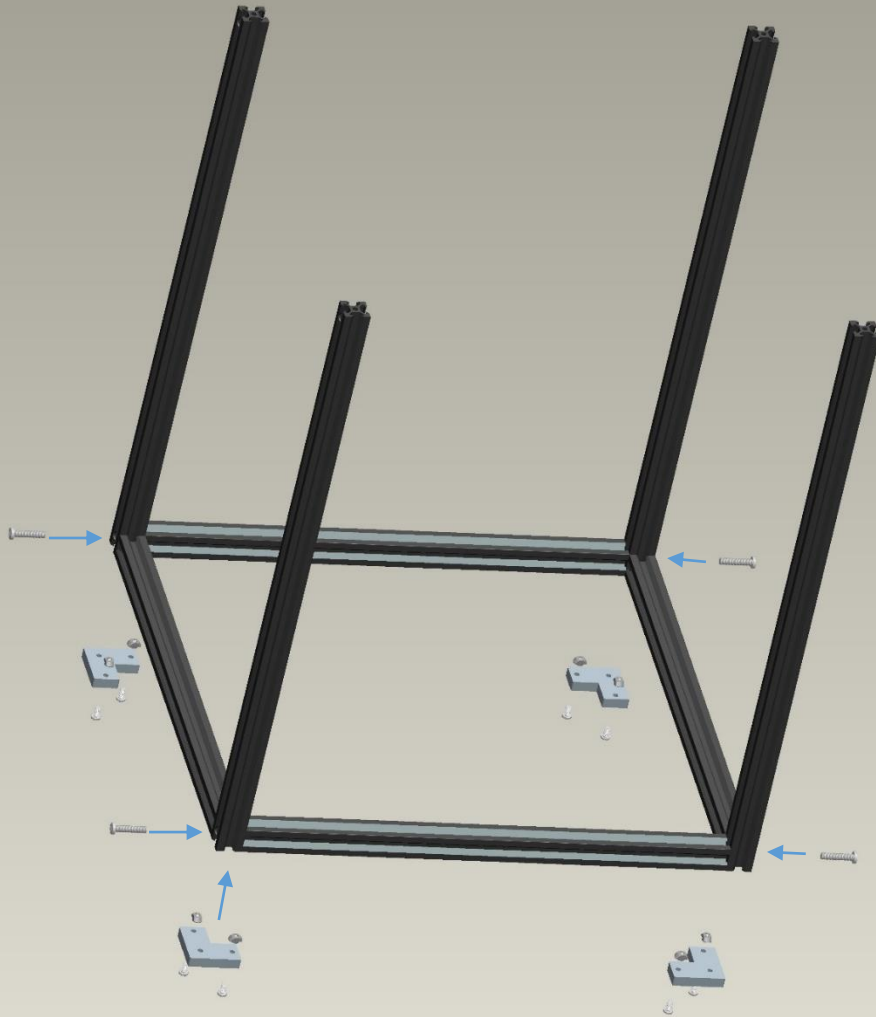
2020 Aluminium profile 500mm – 4pcs

Acrylic corner cushion – 4pcs

M4-10mm screw – 8pcs

M4 T-Nut – 8pcs

M5-25mm screws – 4pcs



Step 2 Assemble Top Frame

Parts:

2020 Aluminium profile 355mm – 2pcs

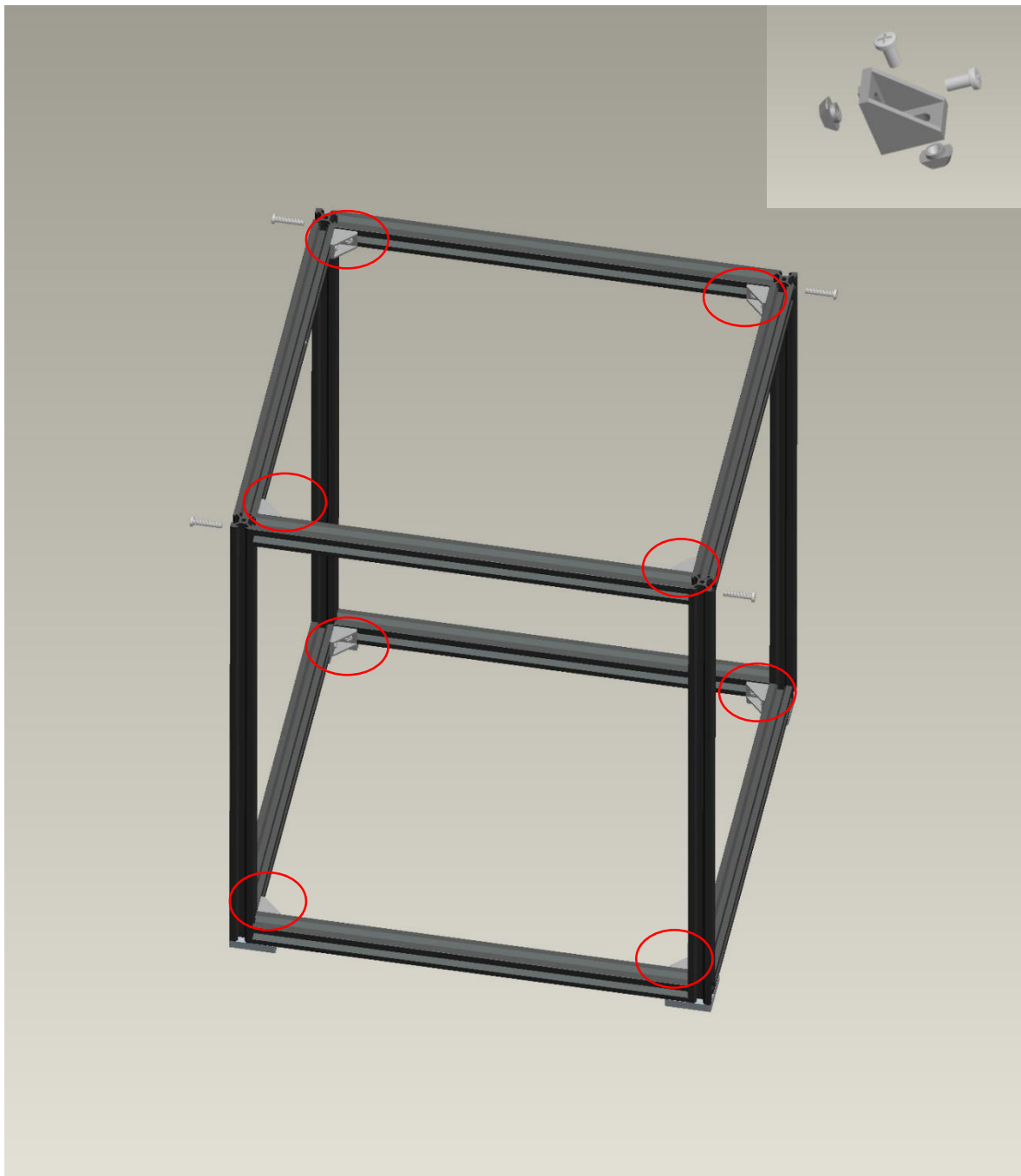
2020 Aluminium profile 380mm – 2pcs

Corner bracket –8pcs

M4-8mm screws –16pcs

M4 T-Nut –16pcs

M5-25mm screws – 4pcs



Step 3 Assemble Z axis

Parts:

1: Y axis motor – 1pcs

Y axis motor holder (acrylic) – 1pcs

Pulley (with grub screw in it) – 1pcs

M3-45mm screws – 4pcs

M4-10mm screws – 2pcs

M4 T-Nut – 2pcs

2: Z endstop – 1pcs

Z endstop holder – 1pcs

M2-10mm – 2pcs

M3-16mm – 1pcs

M3 nut – 1pcs

3: Z axis motor – 1pcs

Z motor holder(acrylic) – 1pcs

M3-45mm screws – 4pcs

M4-10mm screws – 2pcs

M4 T-Nut – 2pcs

coupling – 1pcs

Lead screw 385mm -1pcs

4: Flange bearing – 2pcs

Copper nut – 1pcs

M3-45mm screws – 1pcs

Spring – 3pcs

Flange bearing holder – 1pcs

M3-10mm screws – 8pcs

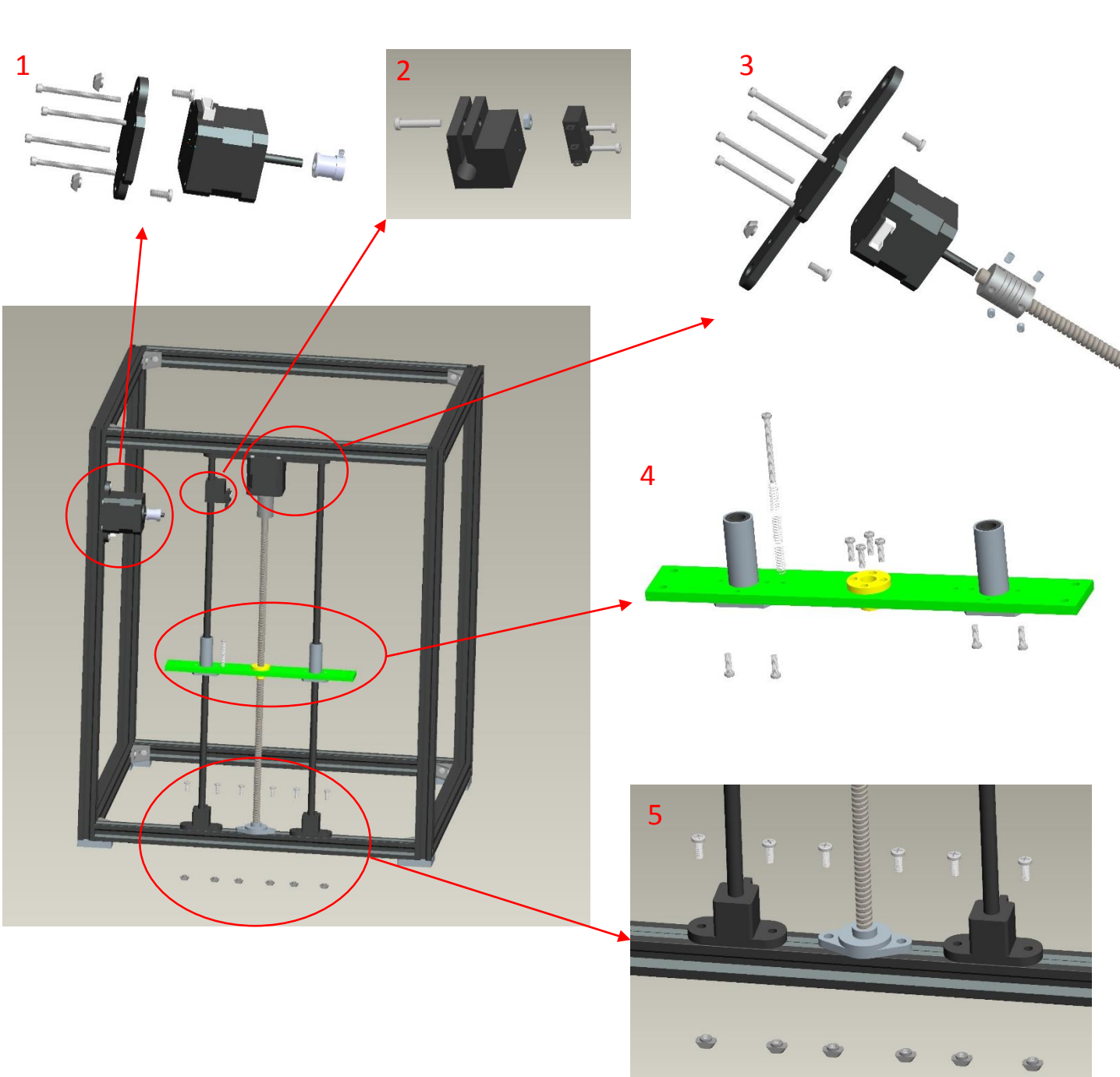
5: KFL08 bearing – 1pcs

Sliding rod holder – 2pcs

M4-10mm screws – 6pcs

M4 nuts – 6pcs

Sliding rod 460mm – 2pcs



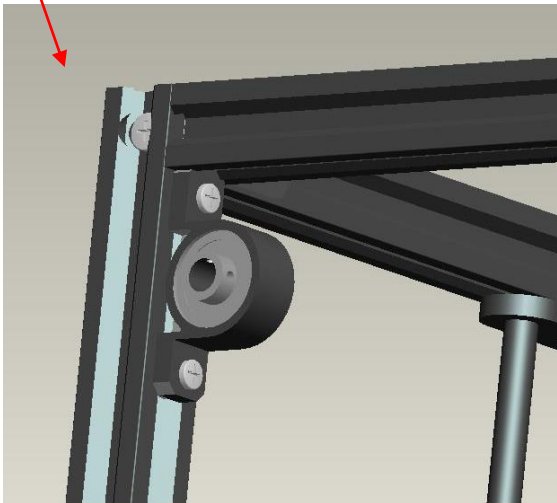
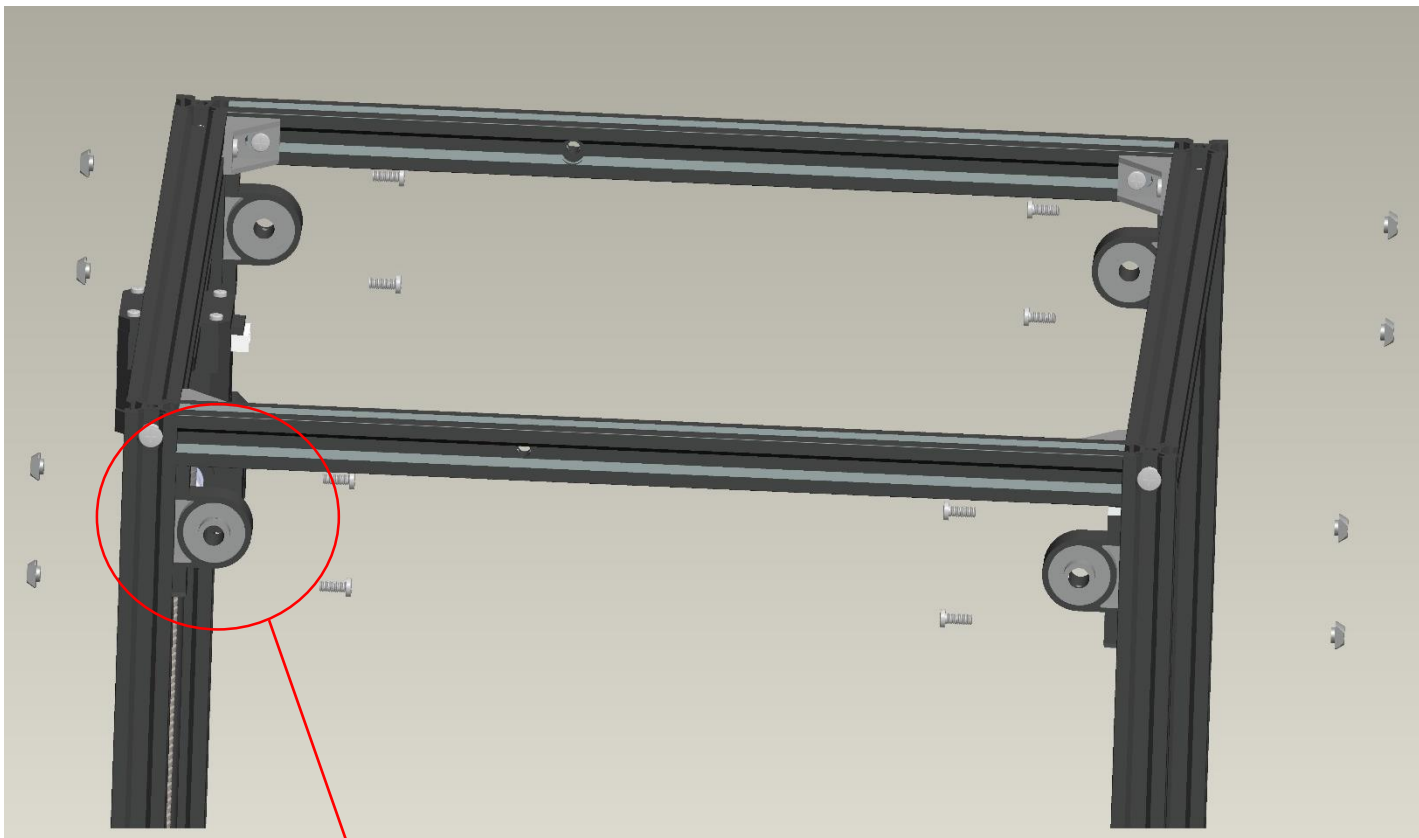
Step 4 Assemble KP08 Bearings

Parts:

KP08 Bearing – 4pcs

M4-8mm screws –8pcs

M4 T-Nut –8pcs



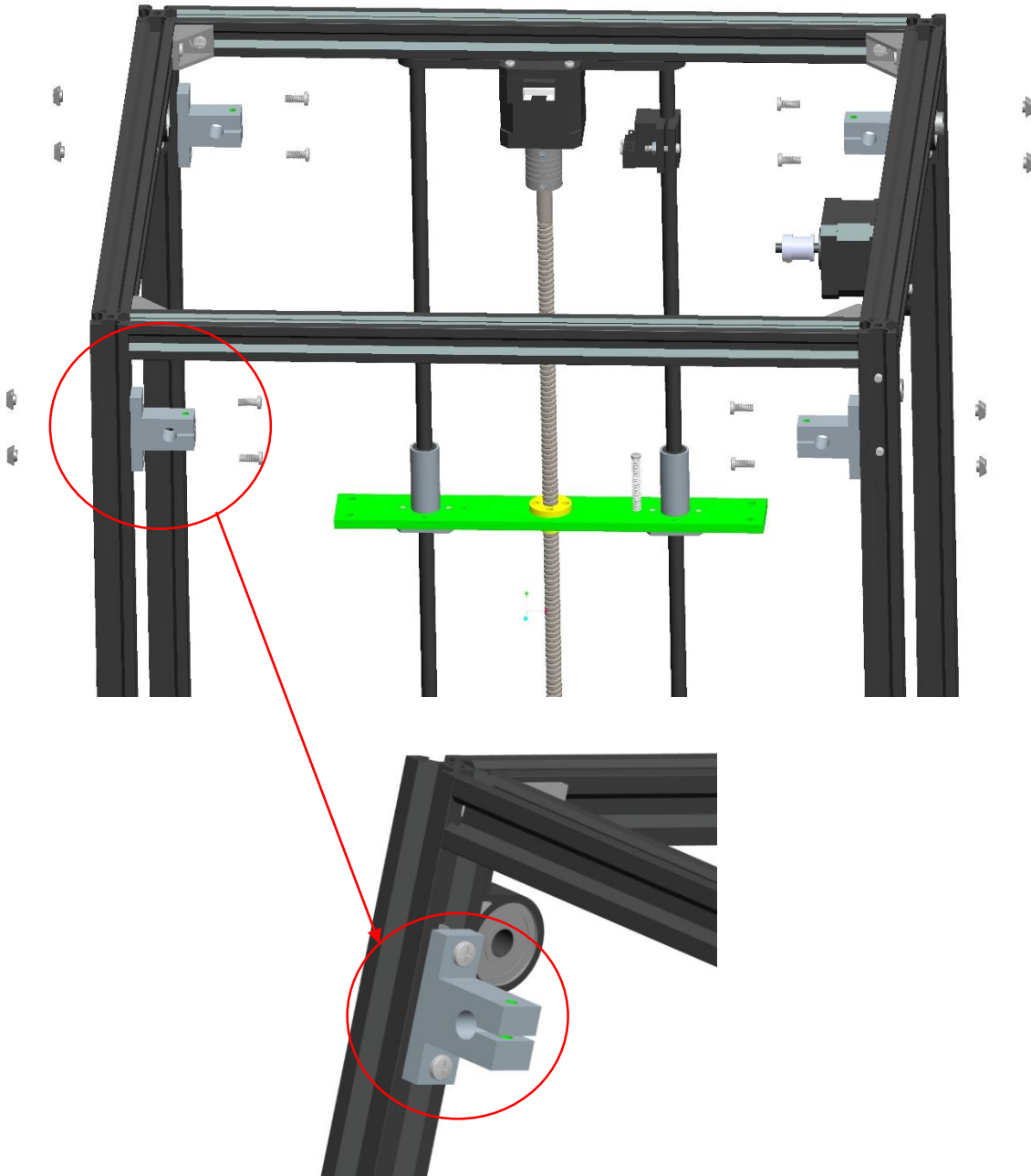
Step 5 Assemble SK8 support shaft

Parts:

SK8 support shaft – 4pcs

M4-8mm screws –8pcs

M4 T-Nut –8pcs



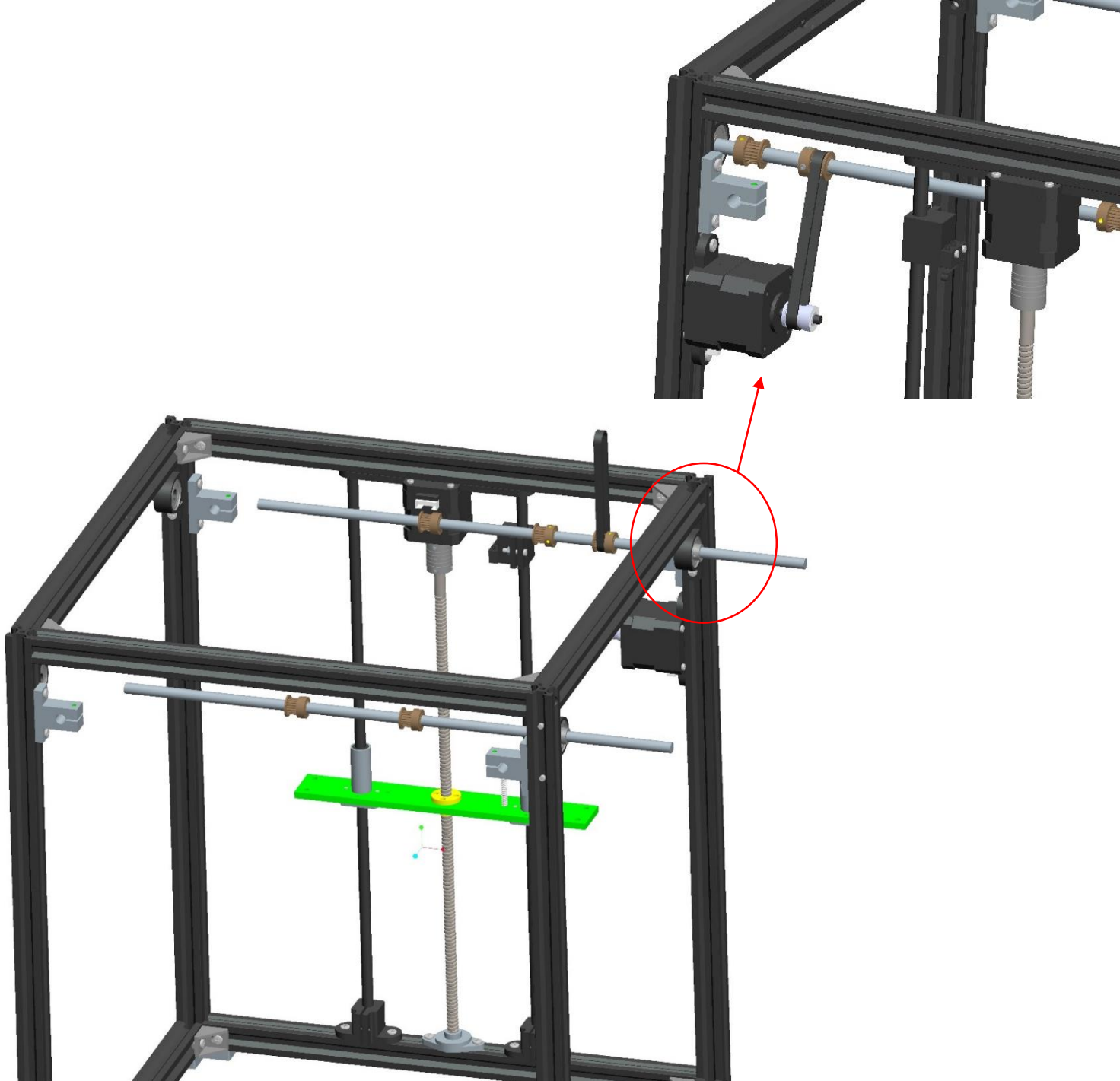
Step 6 Assemble sliding rods

Parts:

Sliding rod 420mm – 2pcs

Pulley (with grub screw in it) – 5pcs

Closed belt – 1pcs



Step 7 Assemble X-pulley&motor mount

Parts:

Sliding rod 395mm -2pcs

LM8UU linear bearing – 8pcs

X-Pulley mount – 1pcs

X-motor mount – 1pcs

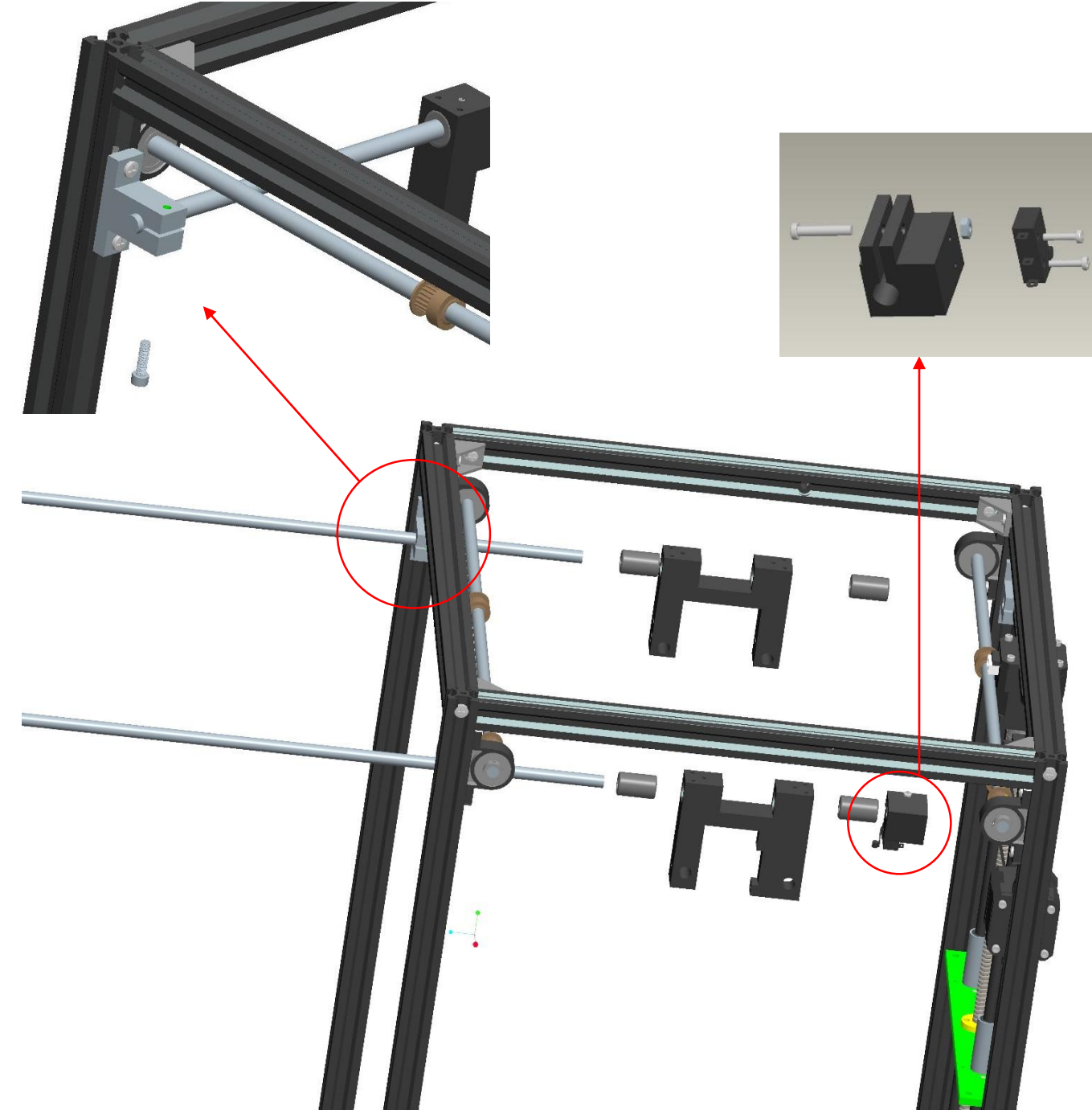
Y-endstop – 1pcs

Y-endstop mount – 1pcs

M2-10mm – 2pcs

M3-16mm – 1pcs

M3 nut – 1pcs



Step 8 Assemble X axis

Parts:

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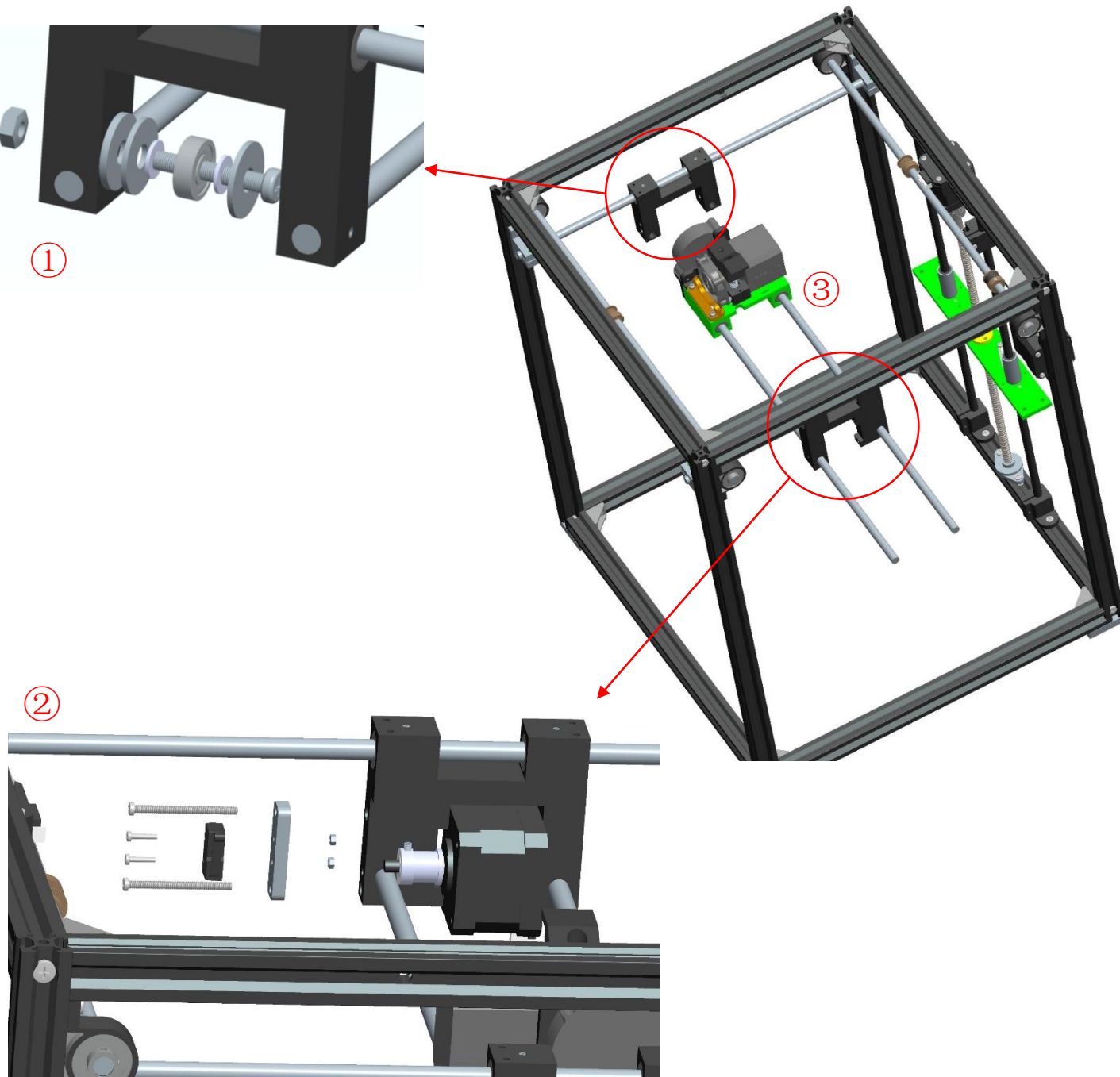
Belt pulley – 1pcs
M5-32mm screw – 1pcs
M6 washer – 3pcs
M5 washer – 2pcs
M5 nut – 1pcs

②

X endstop – 1pcs
X endstop holder (acrylic) – 1pcs
M2-10mm screw – 2pcs
M2-10mm nut – 2pcs
M3-40mm nut – 2pcs

③

Sliding rod 360mm – 2pcs
Extruder assembly – 1pcs

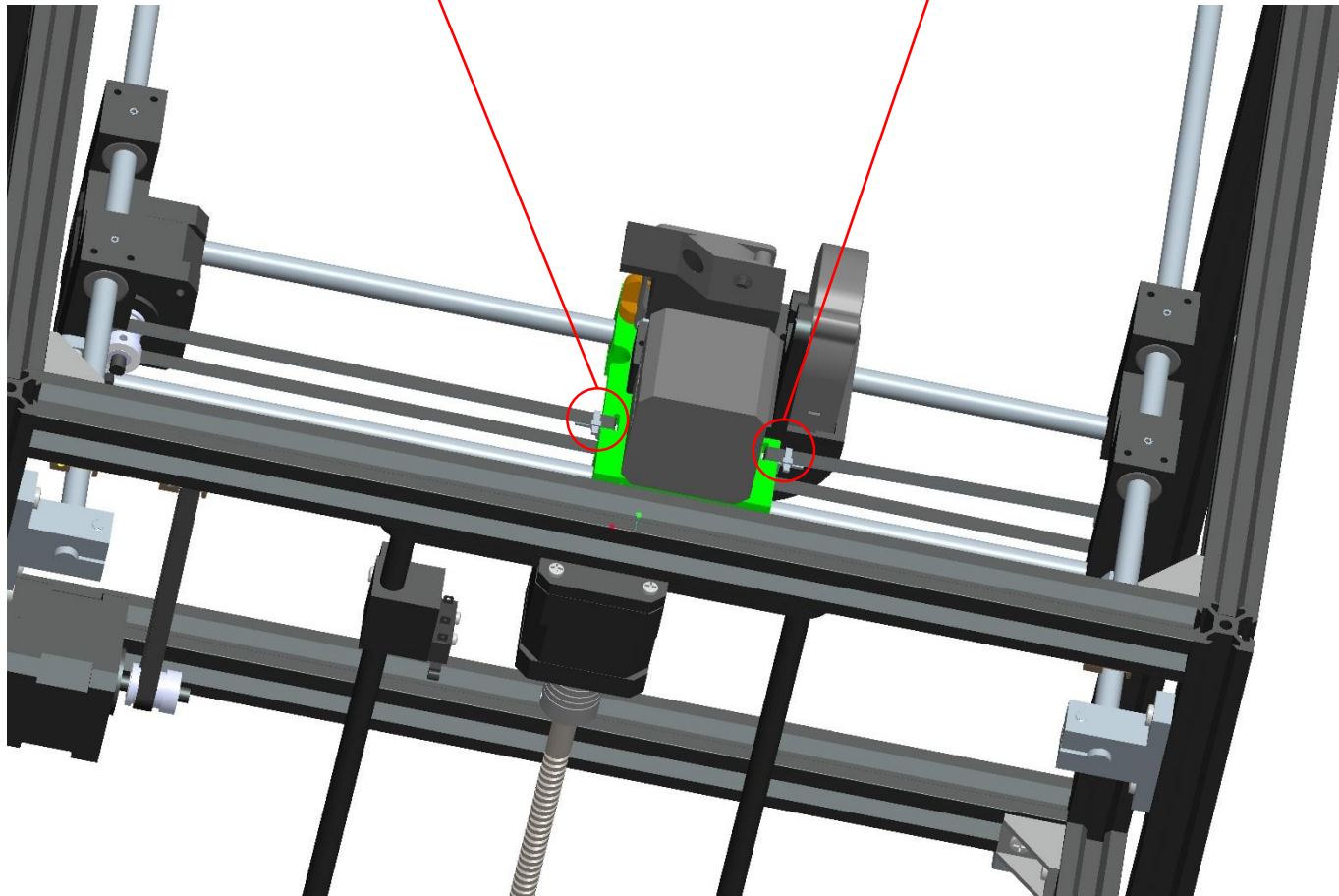


Step 9 Assemble heat bed

Parts:

Timing belt – 1pcs

Zip-ties – 2pcs



- Tighten one end of the timing belt to the belt hole which is on the extruder using a zip-ties .
- Run the other end of timing belt to the X-Motor-Pulley and Belt pulley . Then tighten it to another belt hole using a zip-ties, as shown in the picture .

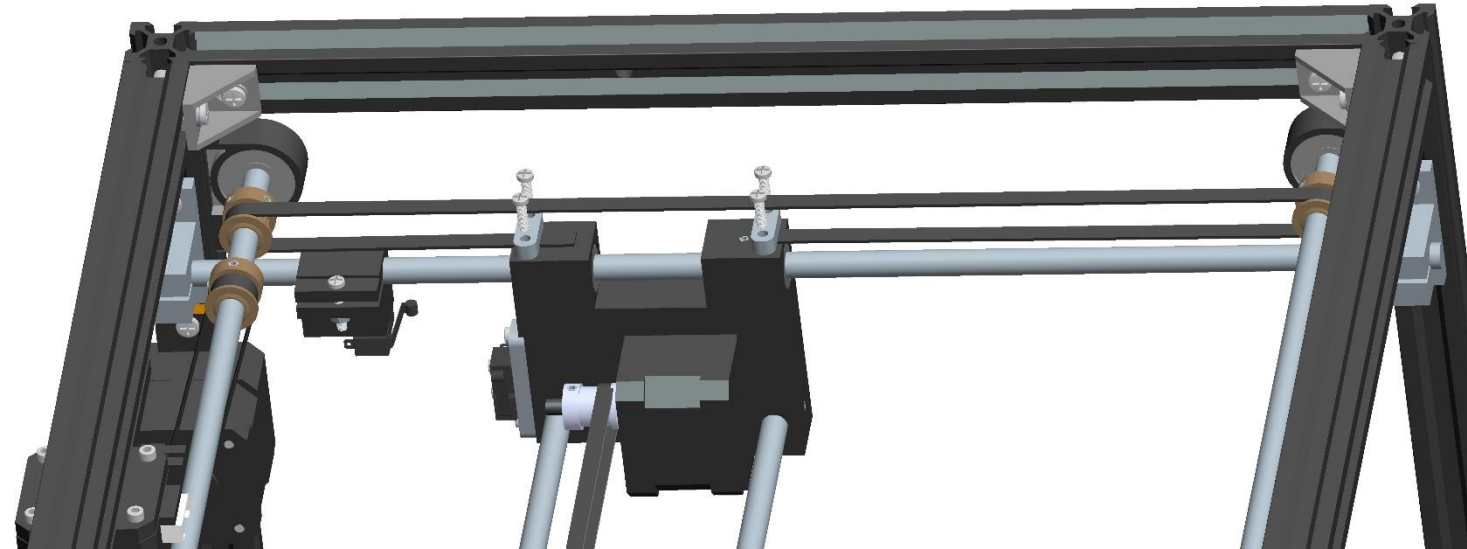
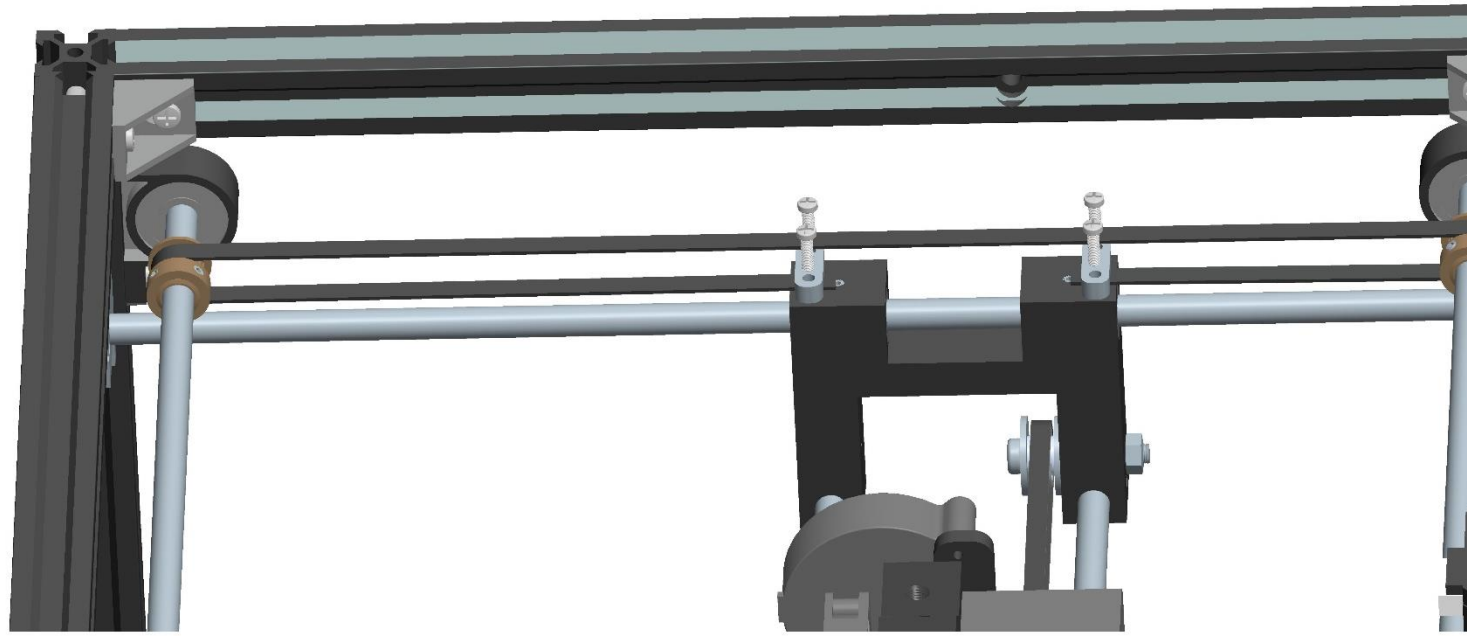
Step 10 Assemble timing belt

Parts:

Timing belt – 2pcs

Belt clip – 4pcs

M3-10mm screws – 8pcs



- Tighten one end of the timing belt using belt clip and M3-10mm screws , the other end through pulley from left and right side , the tighten it on the pulley mount , as picture
- The same install method for X motor mount

Step 11 Assemble Base Frame

Parts:

Bed holder (aluminium) – 2pcs

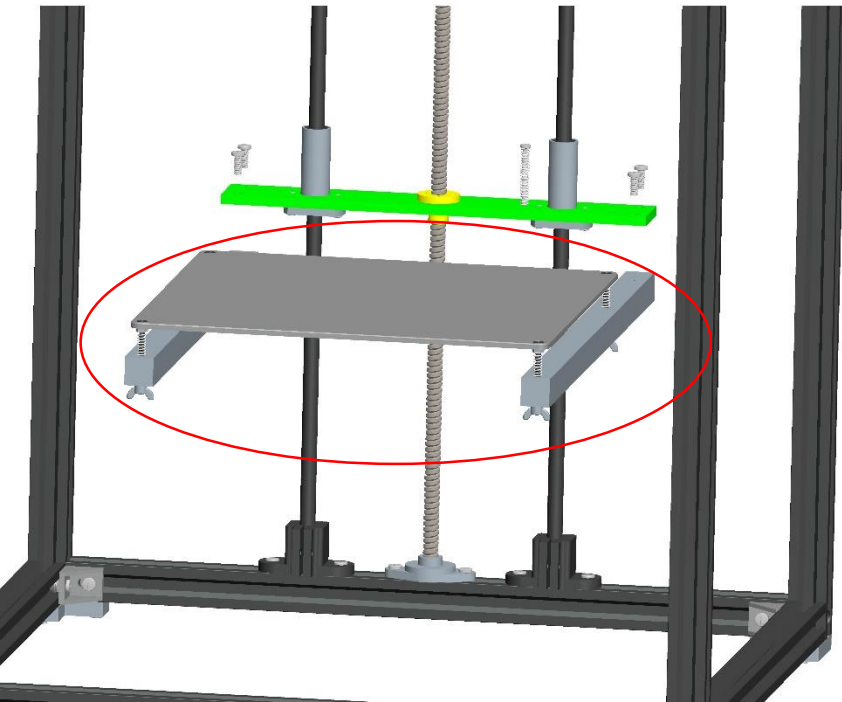
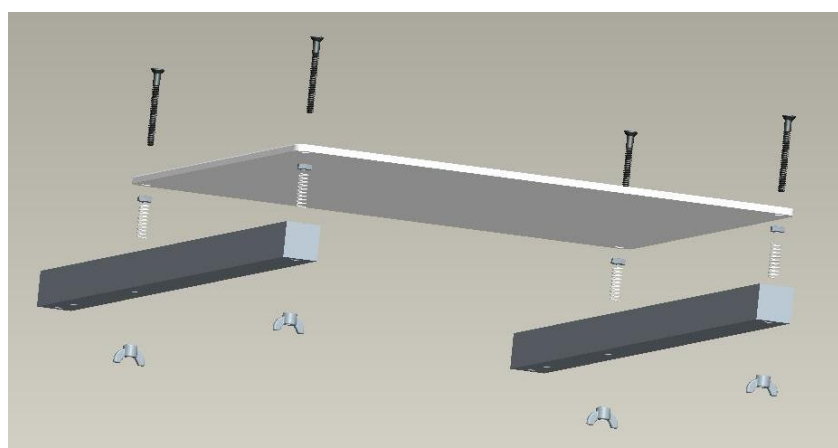
Heat bed – 1pcs

M3-35mm – 4pcs

Springs – 4pcs

Wing nut – 4pcs

M4-10mm – 4pcs



Step 12 Assemble Power supply & Mainboard

Parts:

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Power supply – 1pcs

Power supply holder (acrylic) – 1pcs

M3-10mm screws – 3pcs

M4-12mm screws – 3pcs

M4 T-Nut – 3pcs

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Mainboard – 1pcs

Mainboard holder (acrylic) – 1pcs

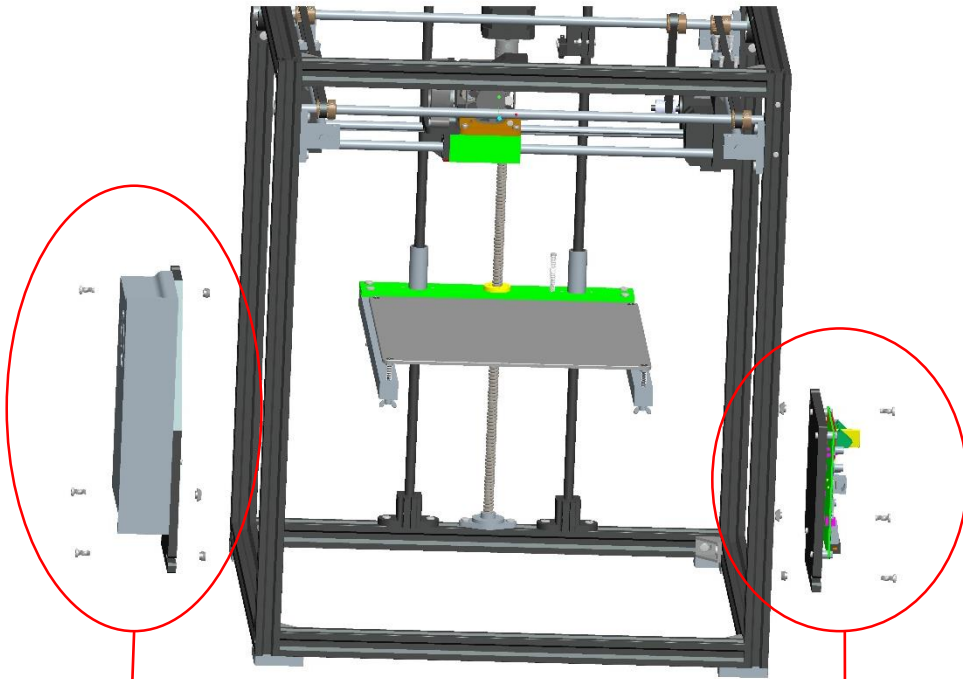
M3-20mm screws – 4pcs

Plastic Pillar – 4pcs

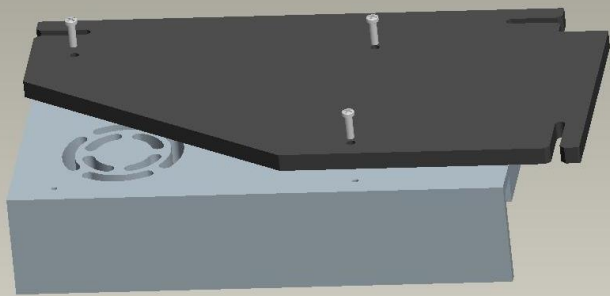
M3 nut – 4pcs

M4-12mm screws – 3pcs

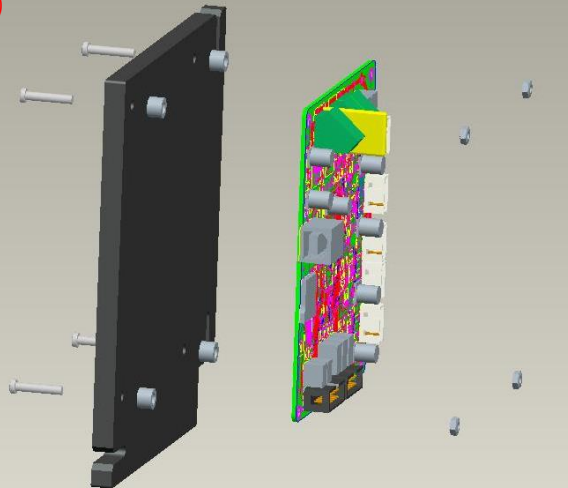
M4 T-Nut – 3pcs



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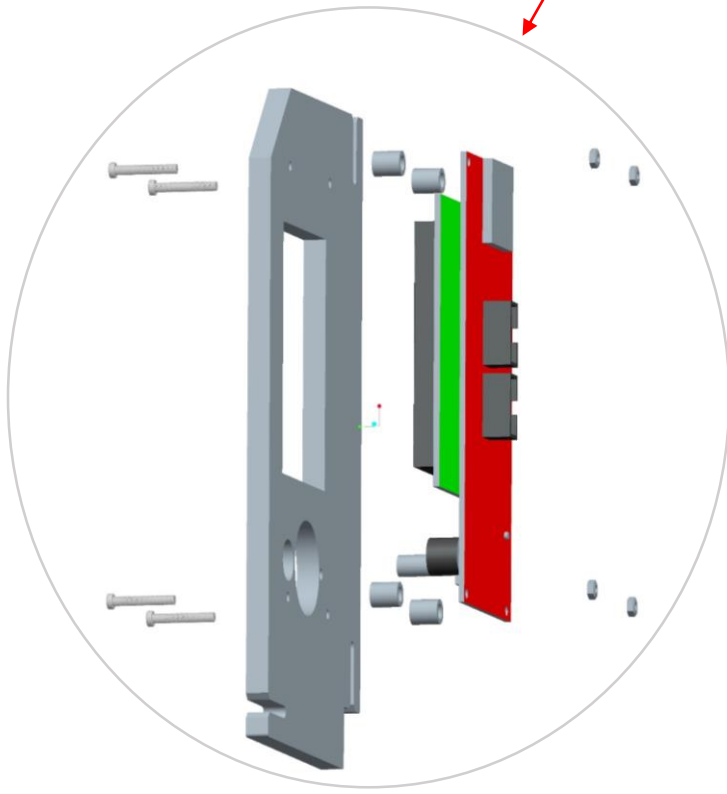
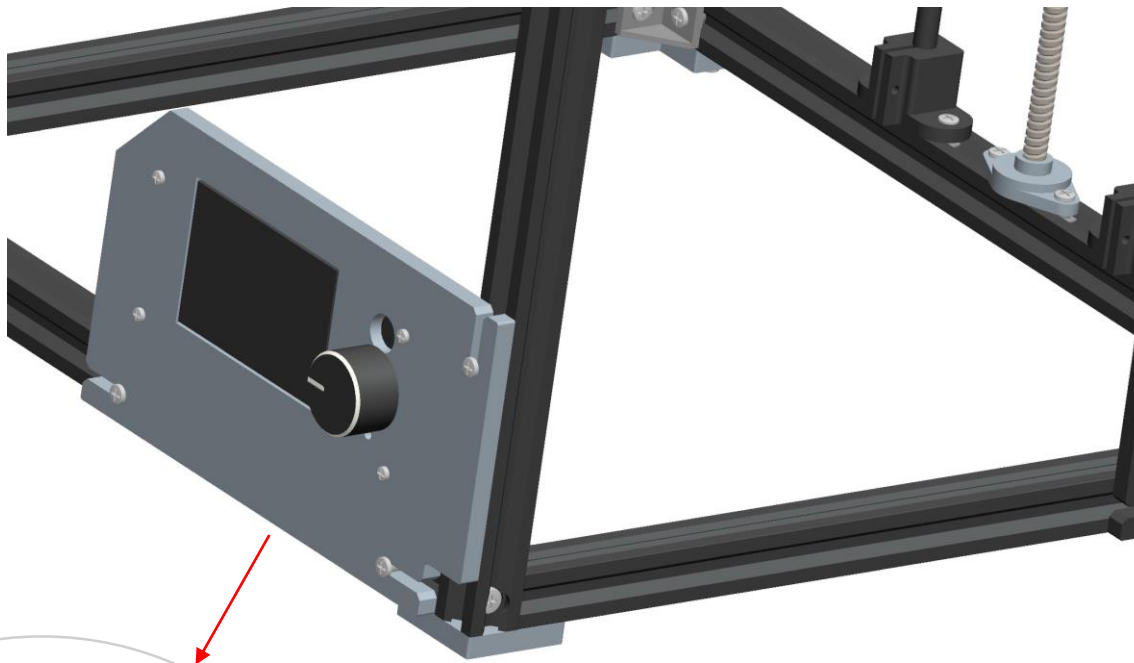
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Step 13 Assemble LCD display

Parts:

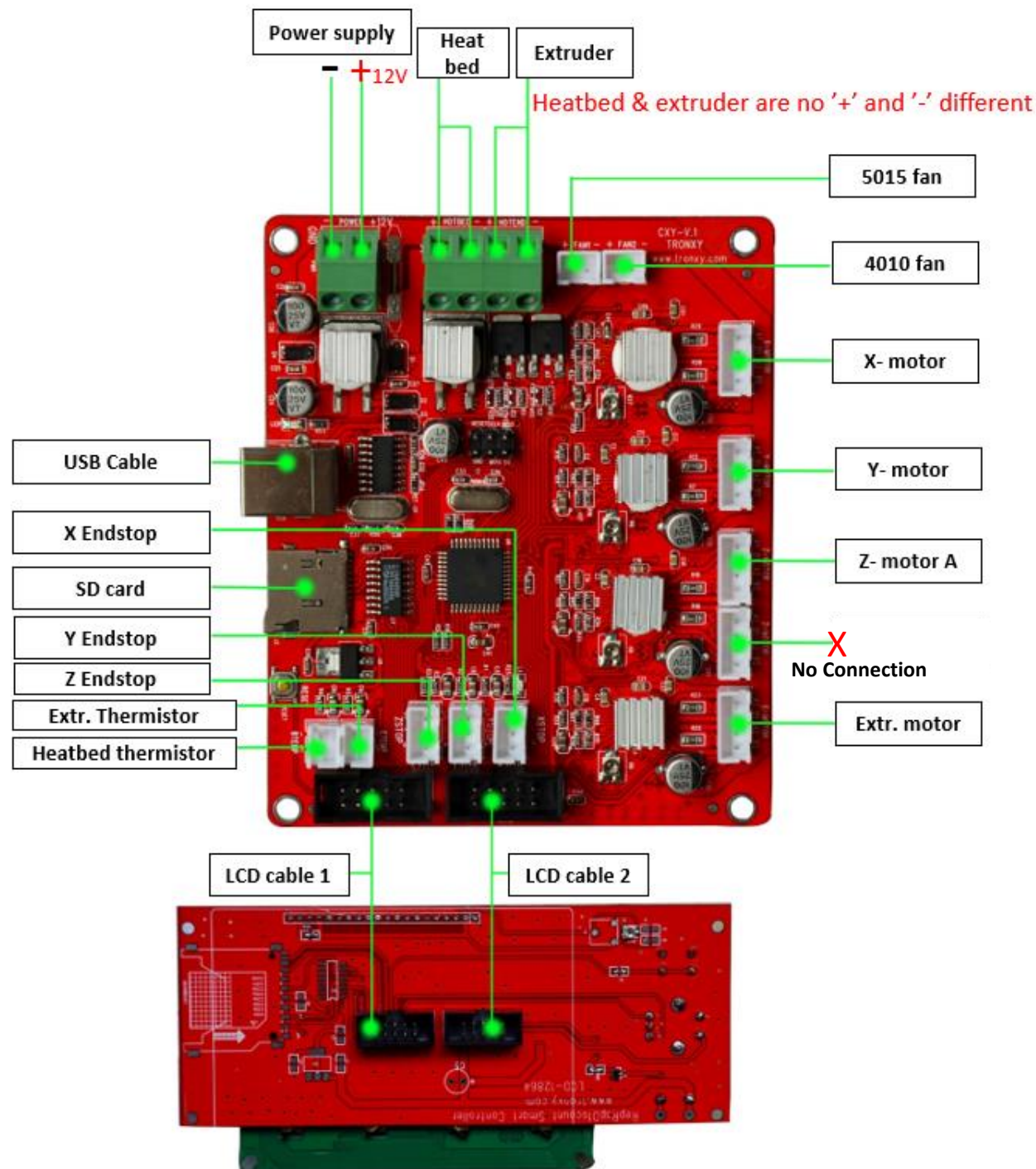
- LCD display – 1pcs
- LCD display holder – 1pcs
- M3-20mm – 4pcs
- M3 nuts – 4pcs
- Plastic pillar – 4pcs
- Control knob – 1pcs
- M4-12mm screws – 3pcs
- M4 T-Nut – 3pcs

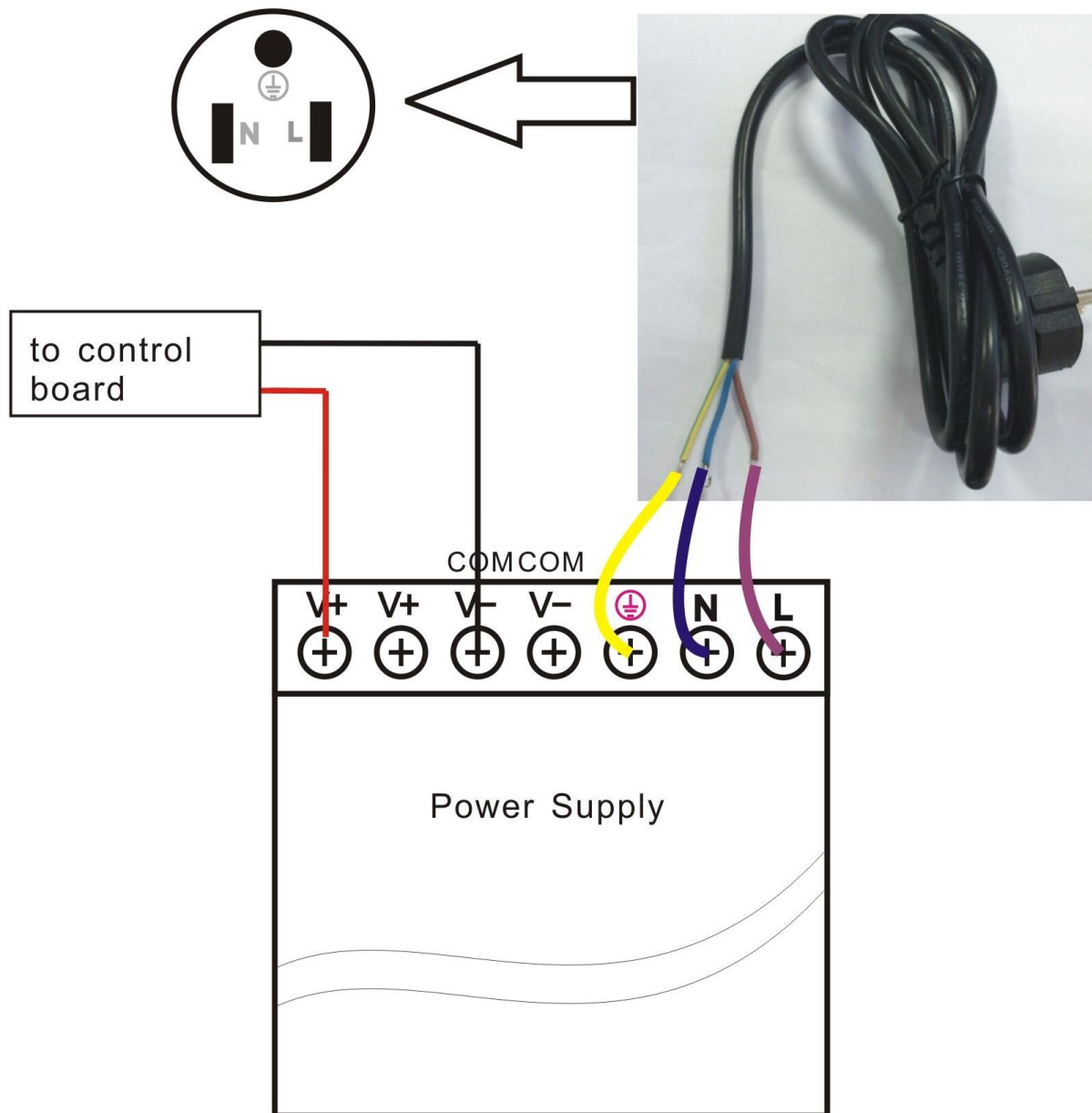


Step 14 Control Board Wiring Diagram

◆ The method of connecting wire is as picture

!NOTE!: The wires connected to POWER SUPPLY and HETBED must be AWG14 or thicker one.





Step 15 AC Power Connector Wiring Diagram

◆ Connect Power cable as the picture (Left)

Note: There are different voltages in different country. Please select the appropriate voltage by switch before power on. As the picture below.

