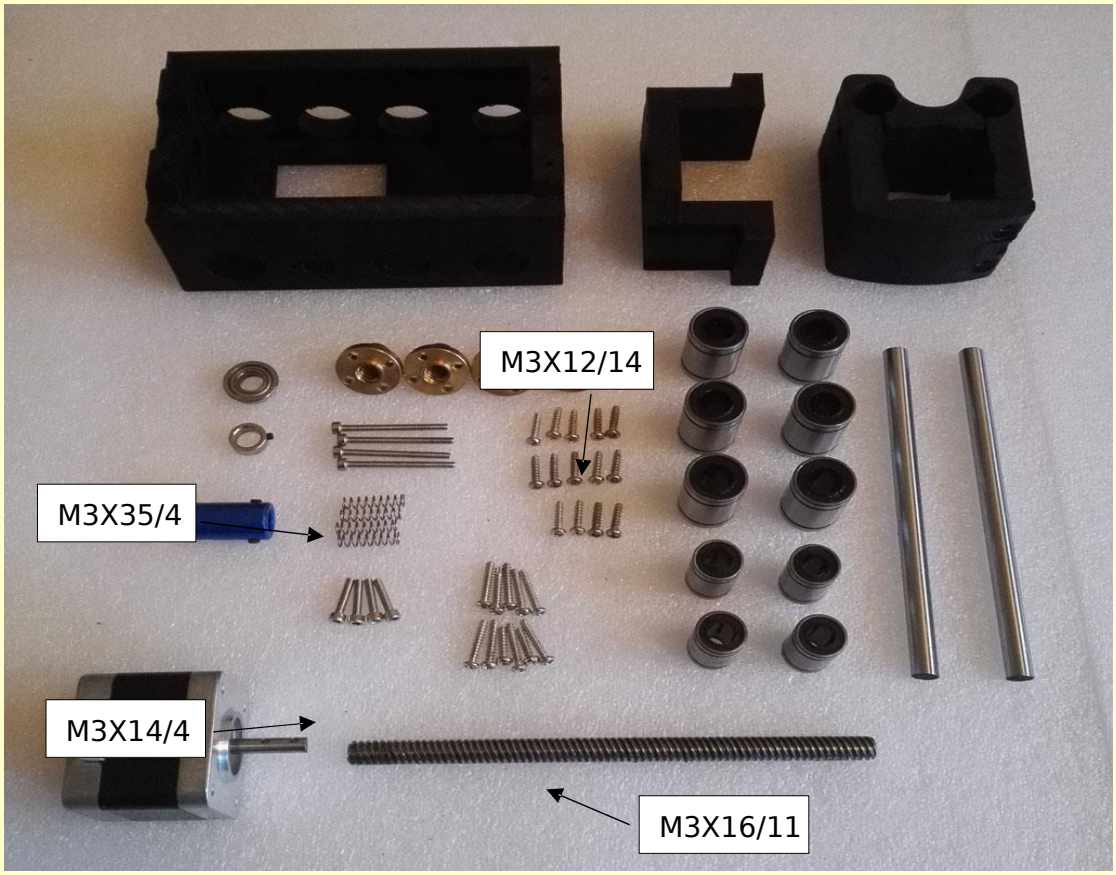
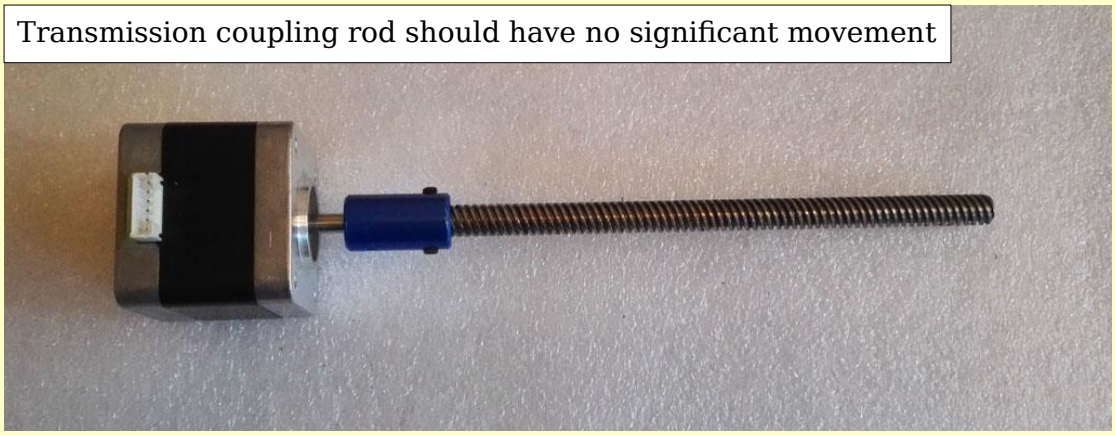
CNCC/ Laser / Mechanical Engraving Machine Assembly Tutorial



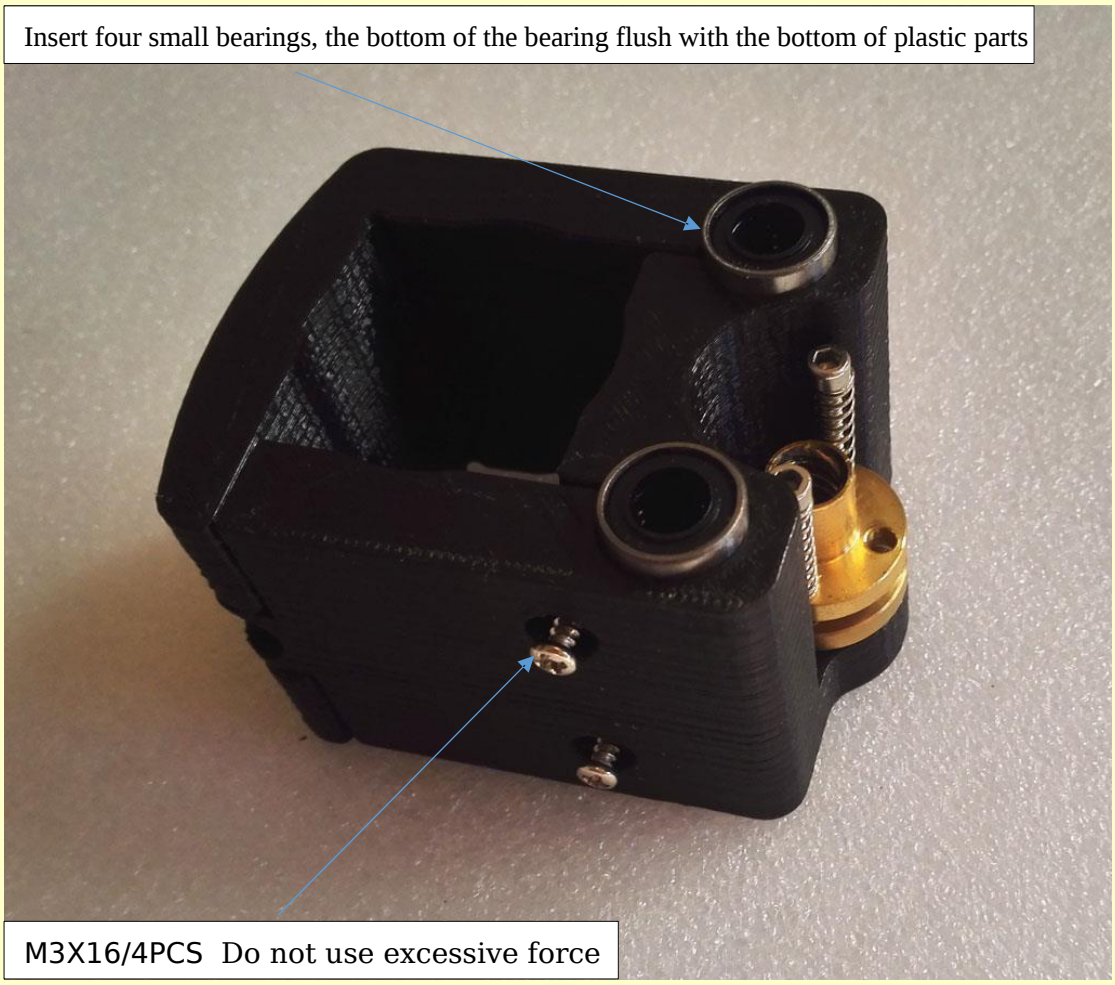
Transmission coupling rod should have no significant movement



M3X12/2pcs ，Do not use excessive force


M3X35+spring/2pcs

Insert four small bearings, the bottom of the bearing flush with the bottom of plastic parts

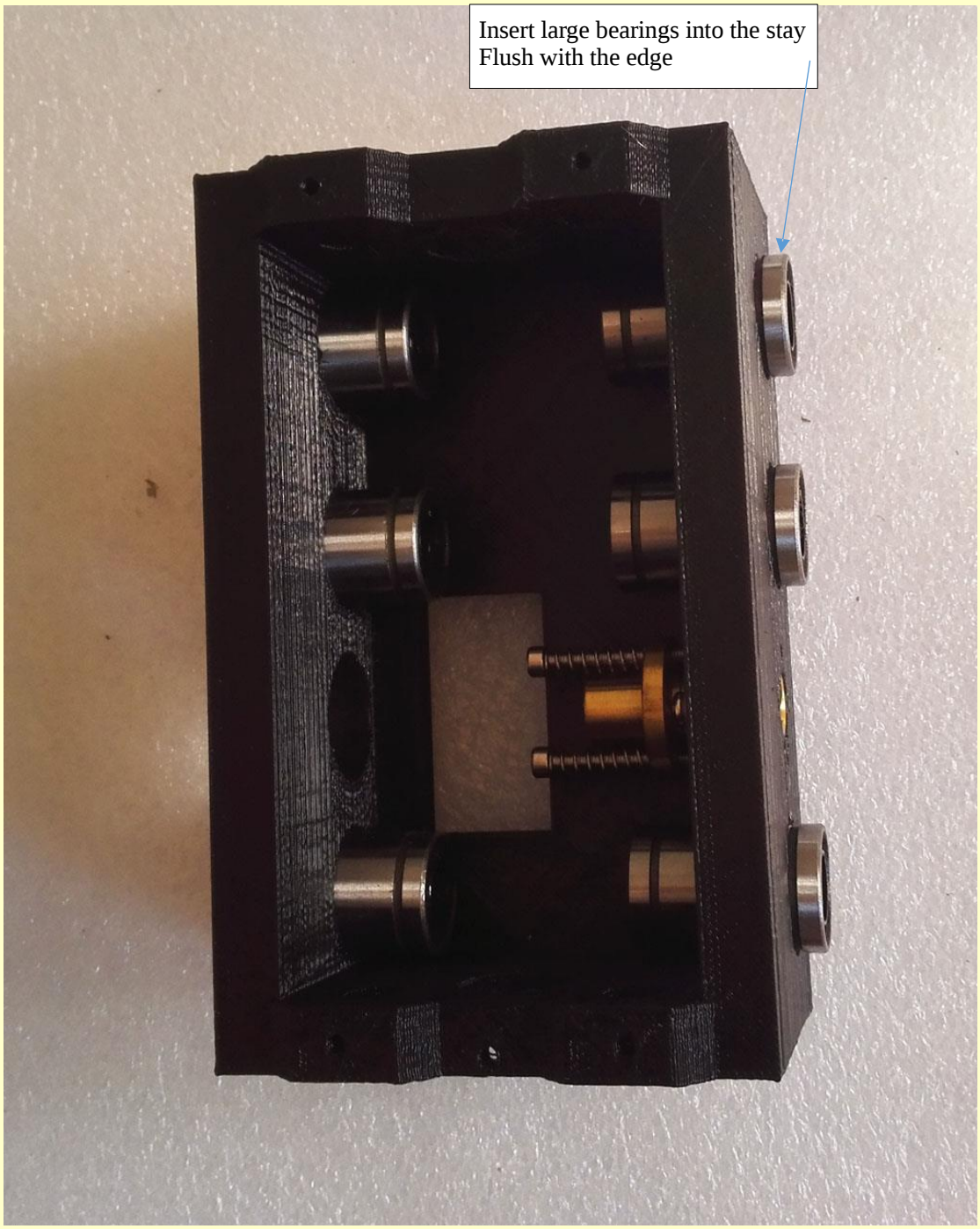


M3X16/4PCS Do not use excessive force

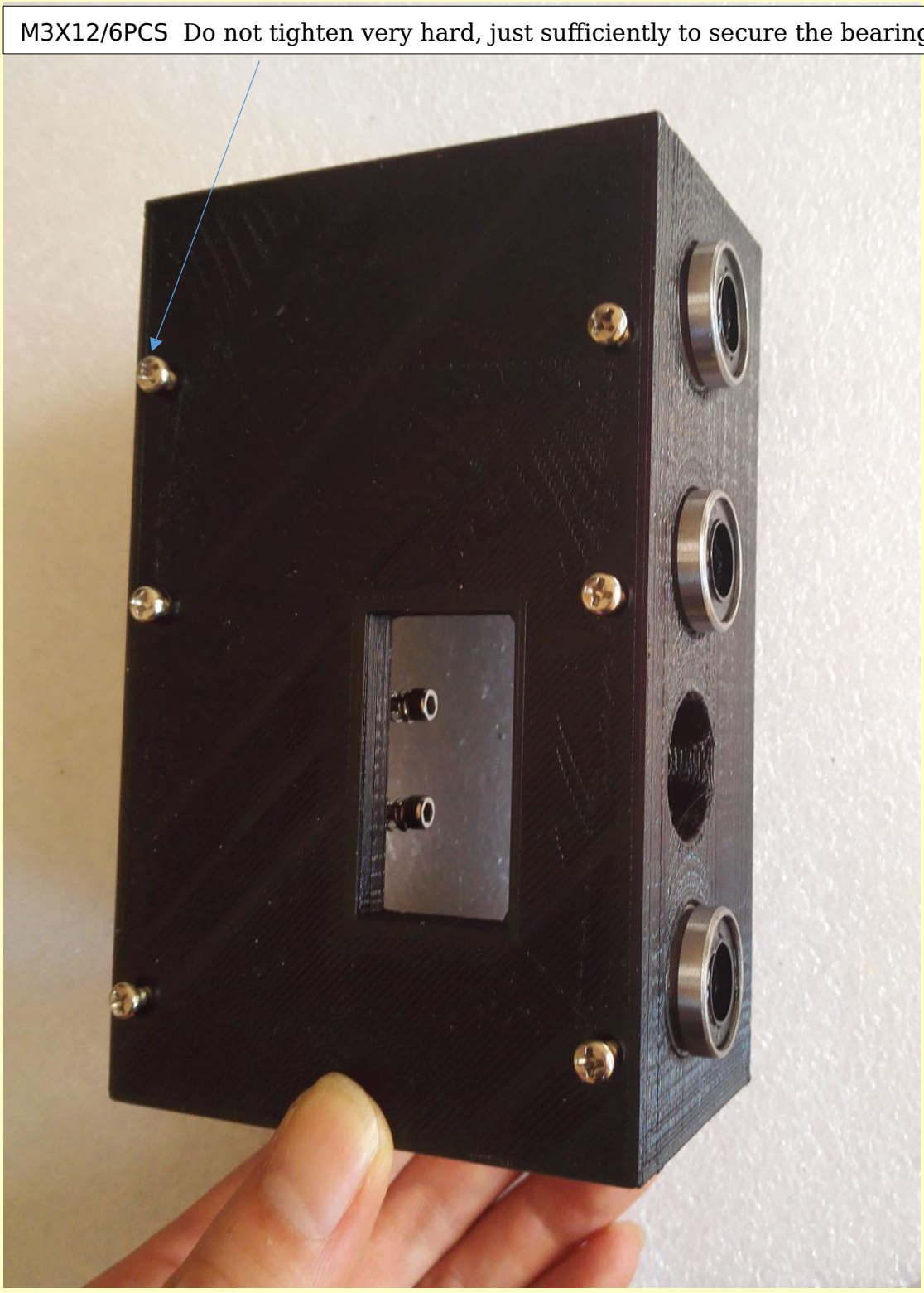

M3X16/3PCS Pre-lock, temporarily do not lock

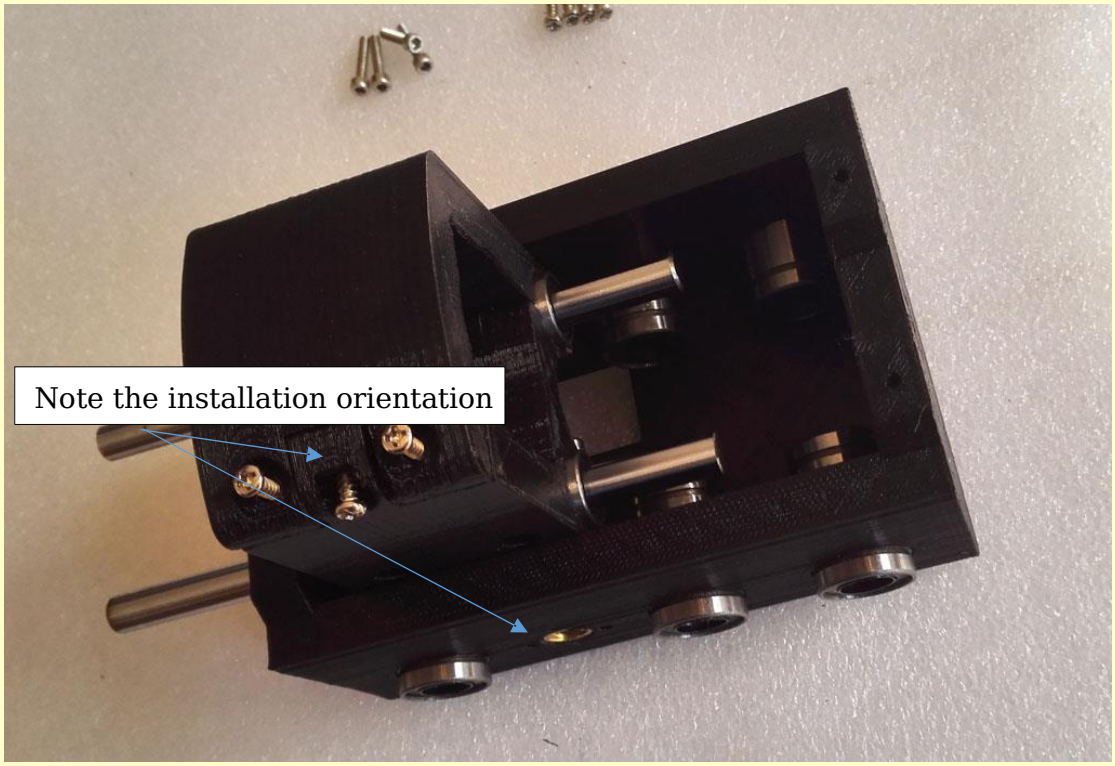

M3X12/2PCS Do not use excessive force


M3X35 + spring / 4PCS

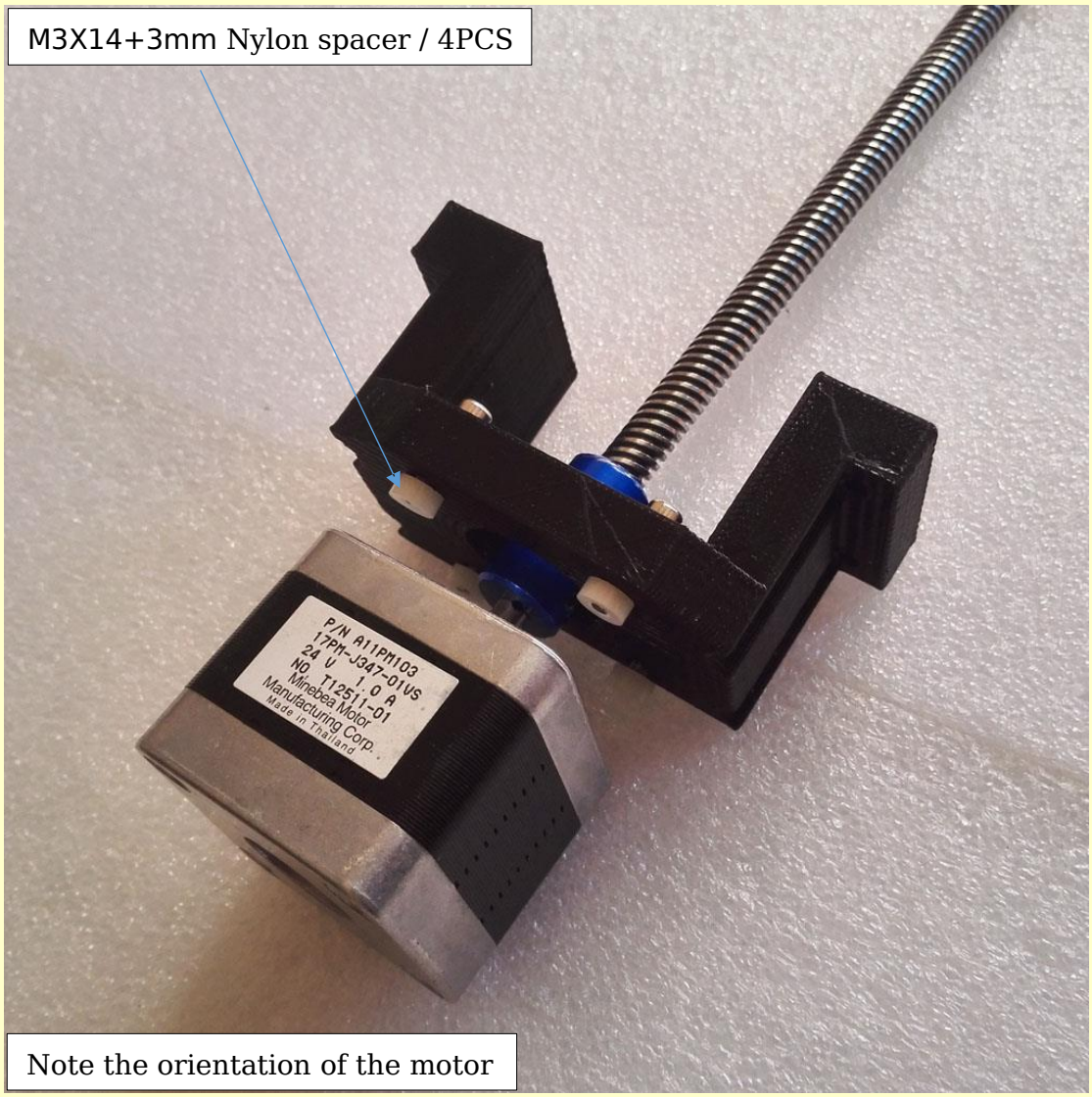

Insert large bearings into the stay
Flush with the edge

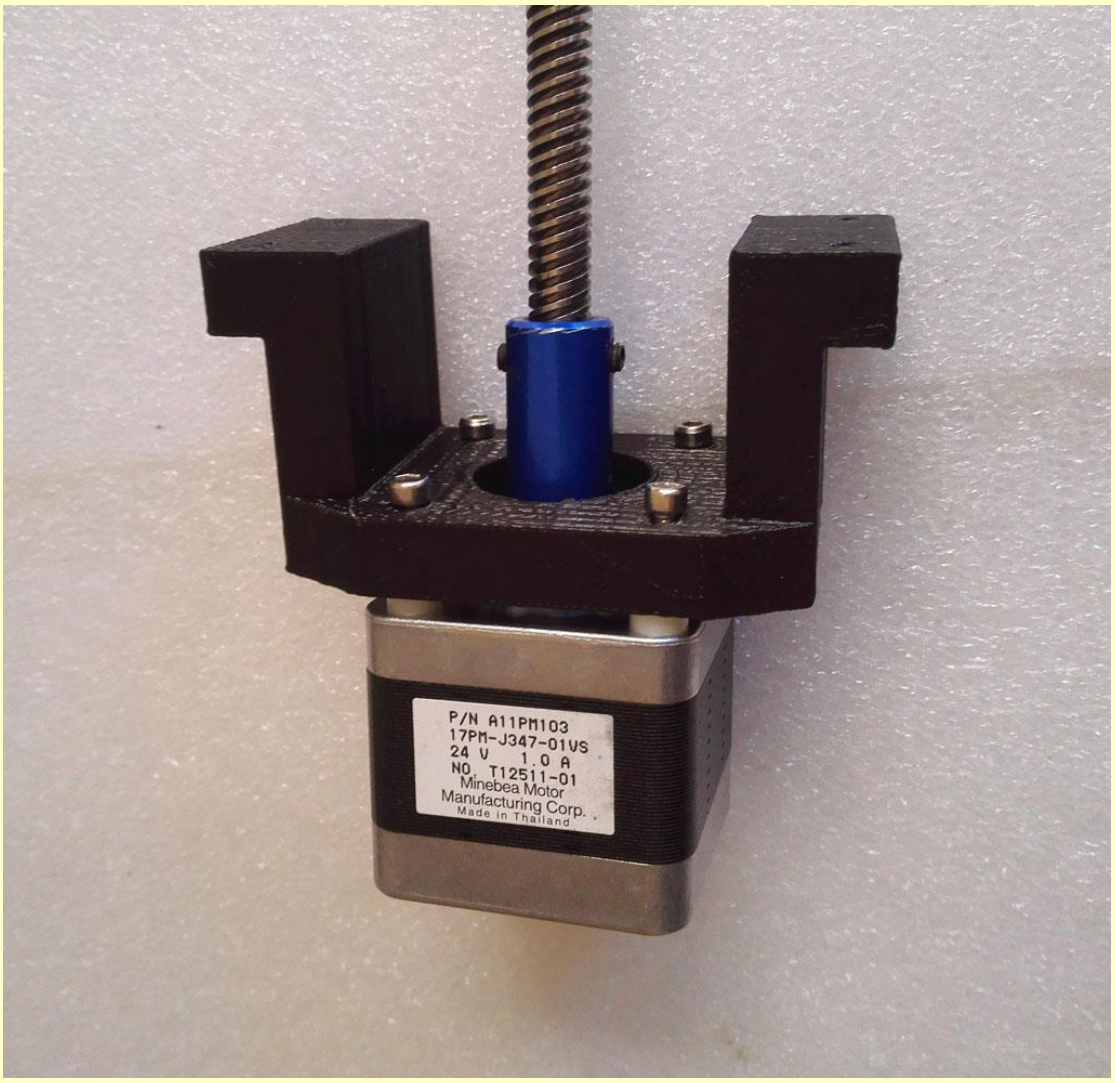
M3X12/6PCS Do not tighten very hard, just sufficiently to secure the bearing

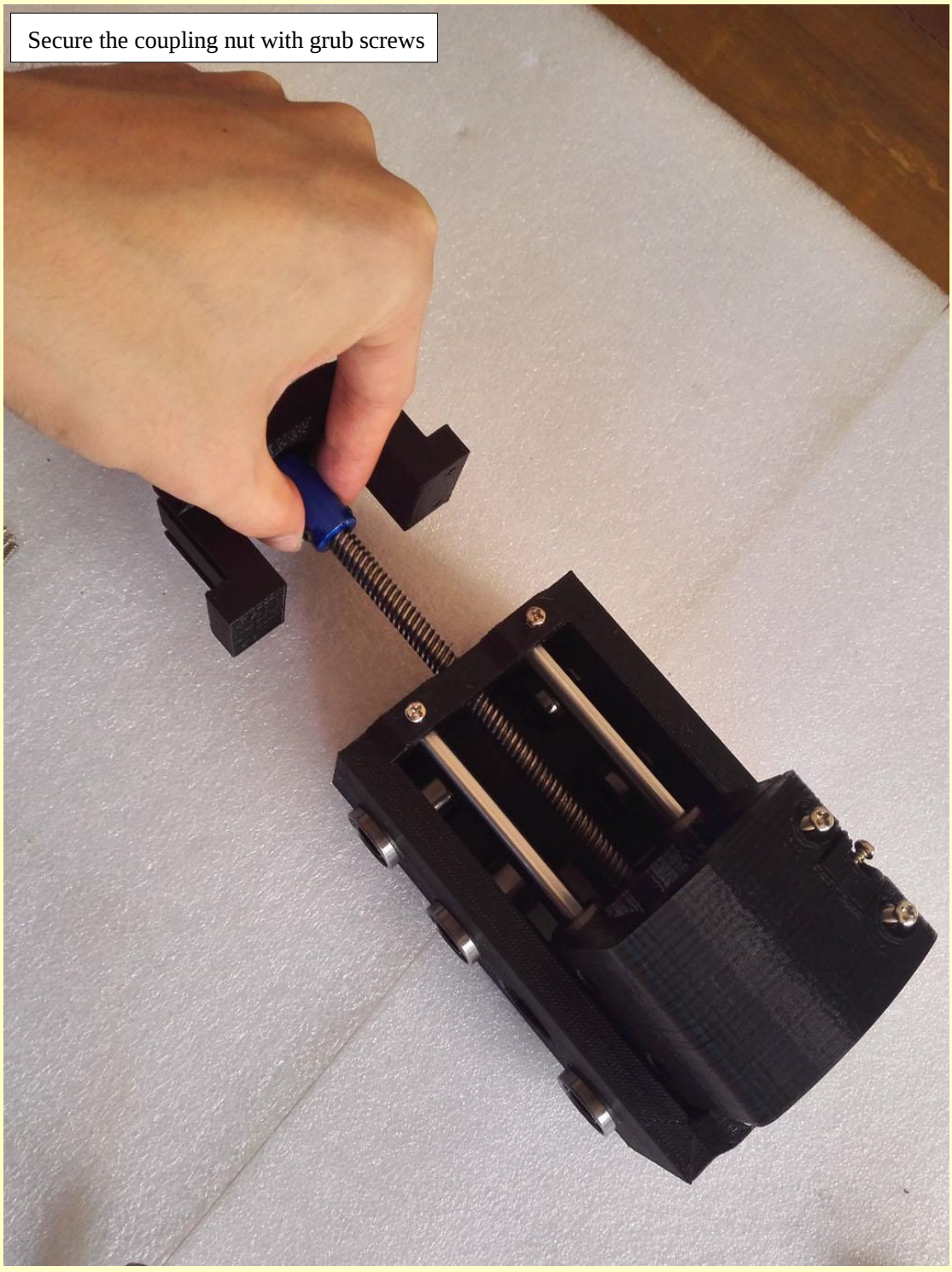


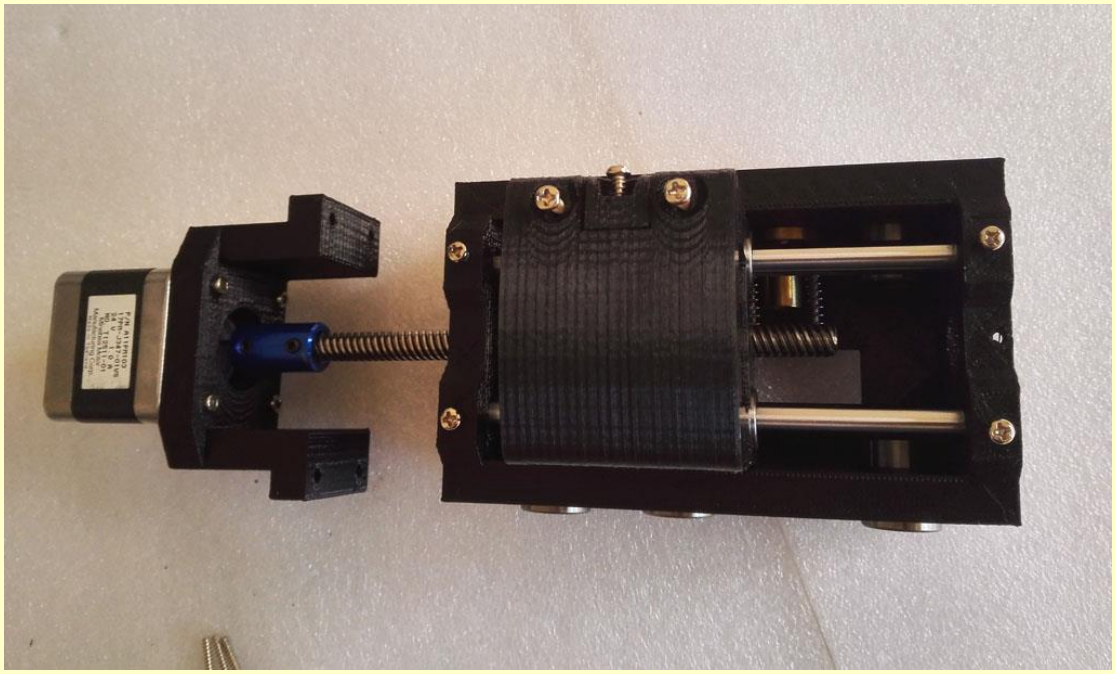

Note the installation orientation

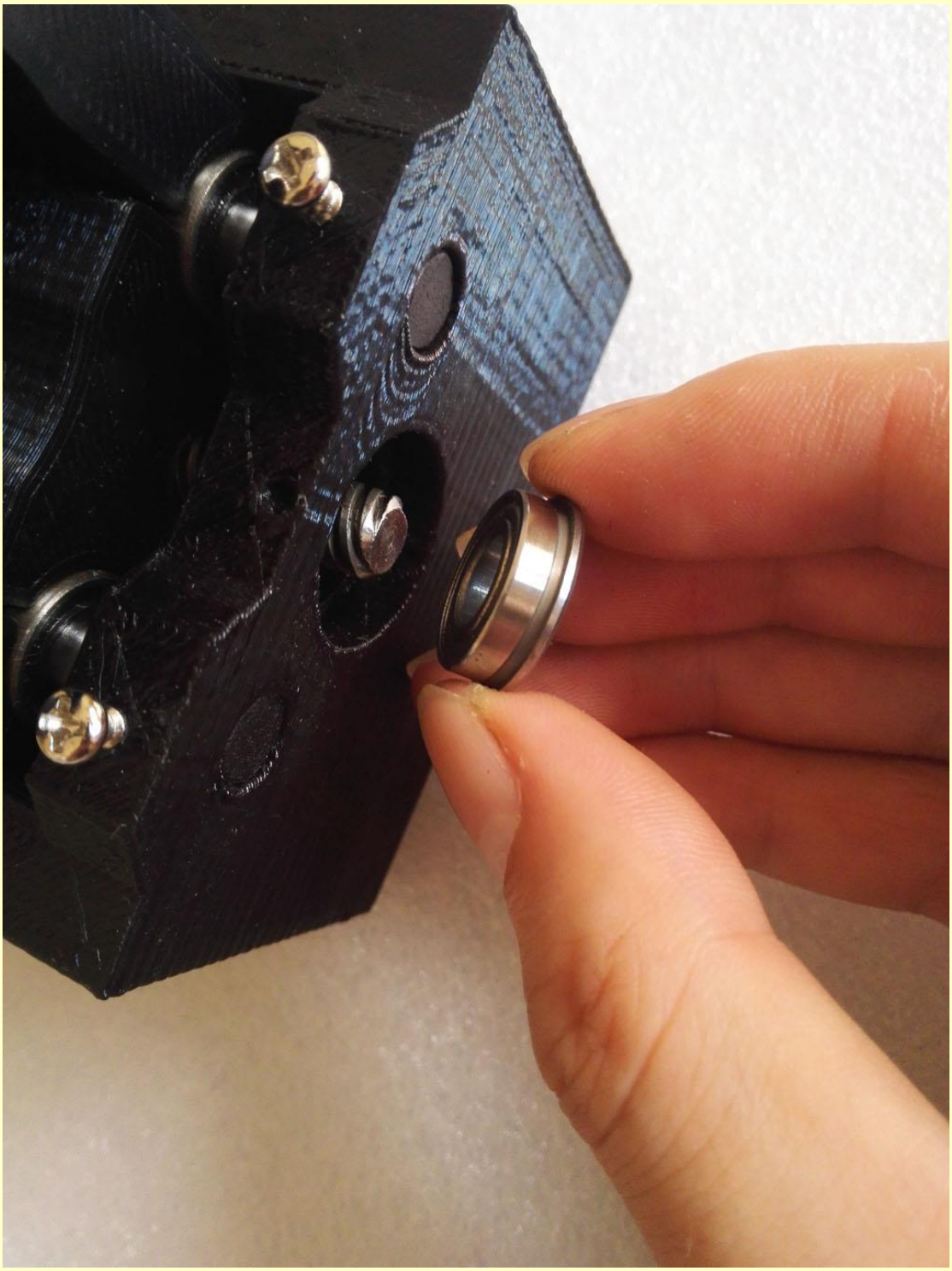

M3X12/4PCS Do not use great force, just sufficient to lock the shafts

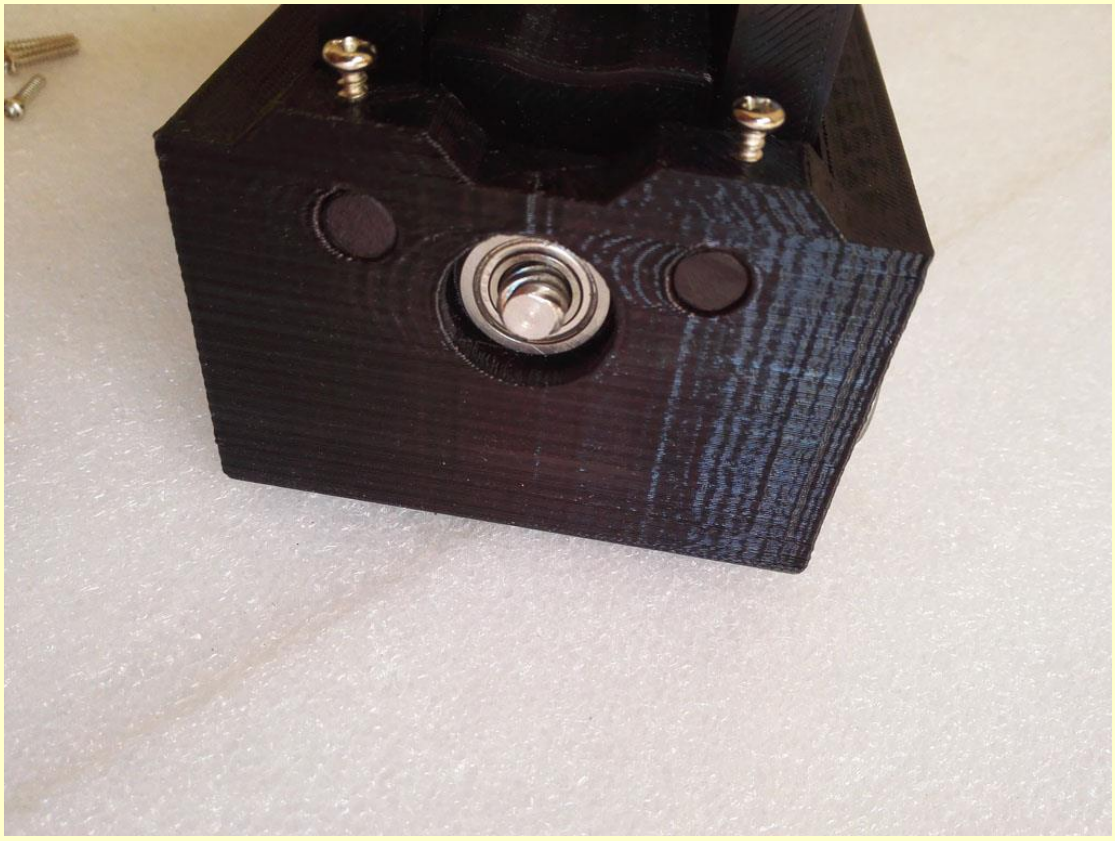

M3X14+3mm Nylon spacer / 4PCS
P/N A11PM103
17PM-J347-01Us
24 V
NO T12511-01
1.0 A
Minebea Motor
Manufacturing Corp.
Made in Thailand
Note the orientation of the motor

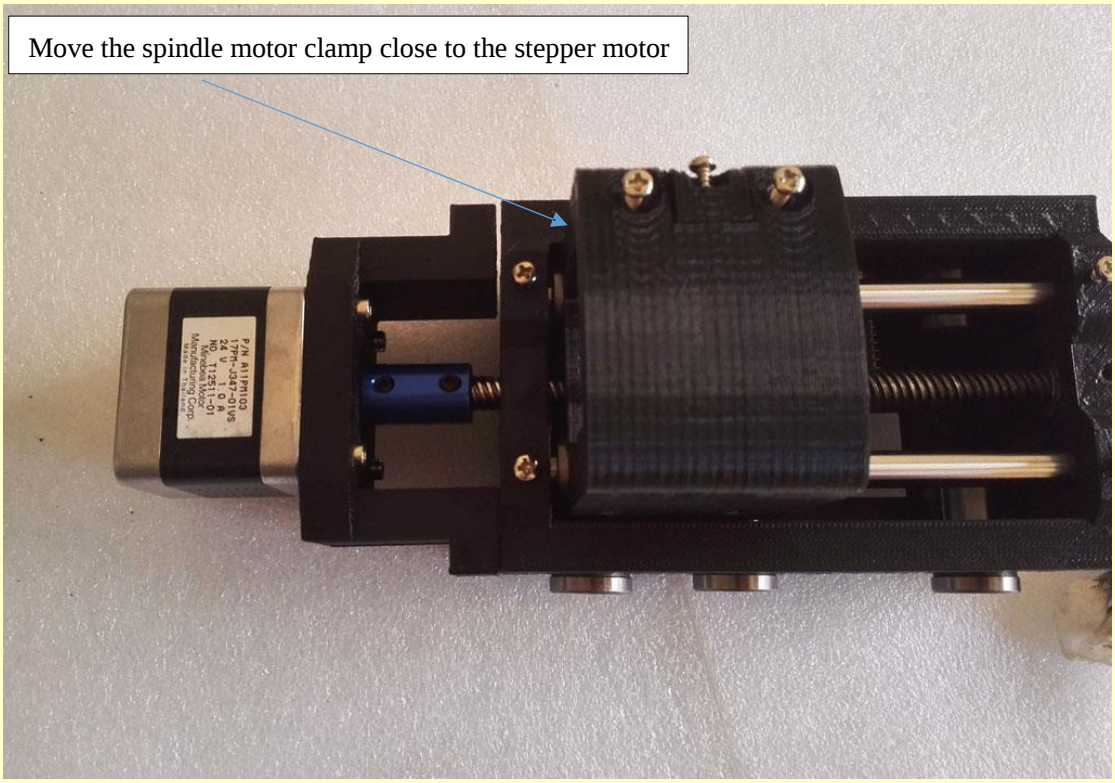

P/N A11PM103
17PM-J347-01VS
24 V 1.0 A
NO. T12511-01
Minebea Motor
Manufacturing Corp.
Made in Thailand

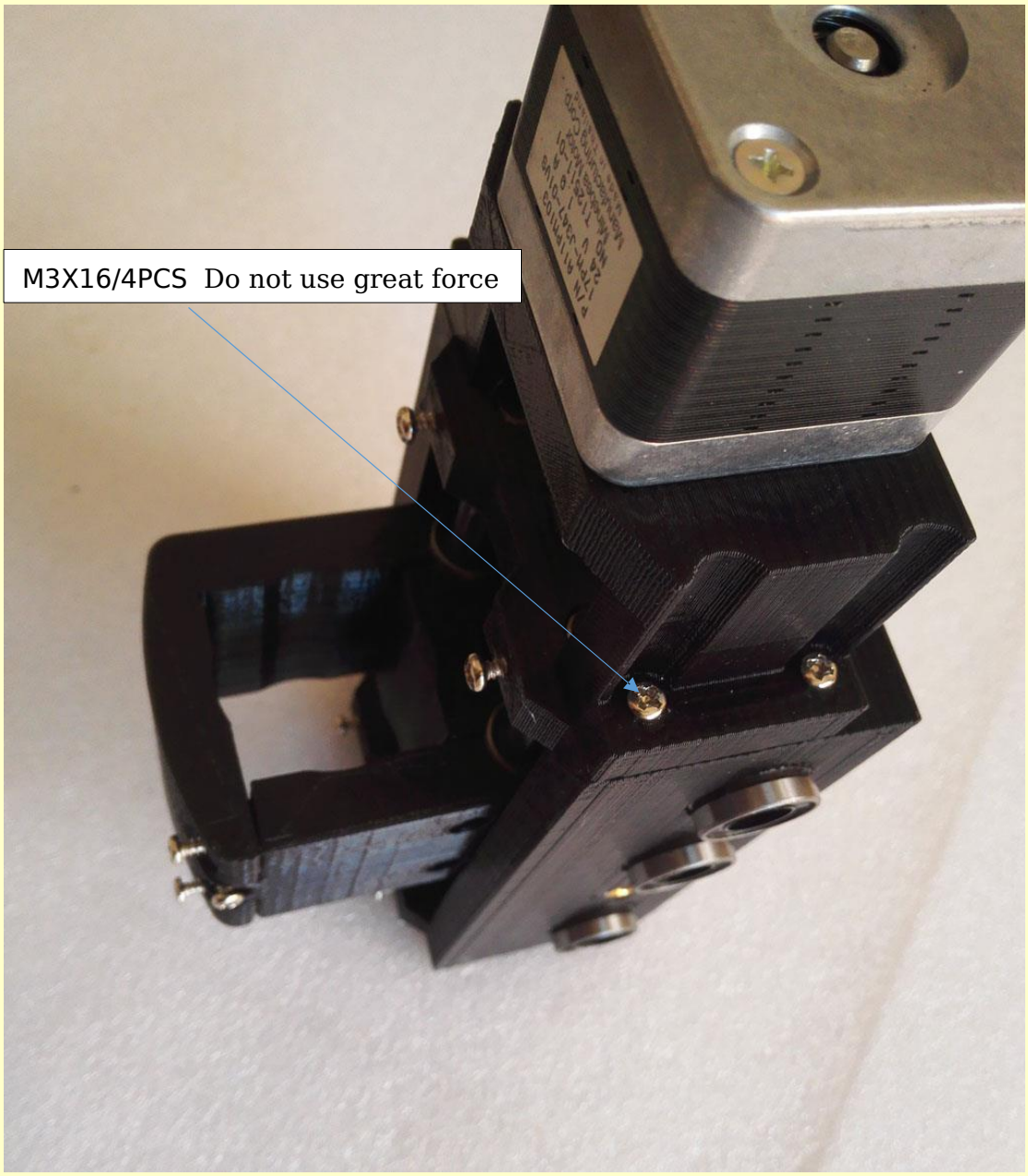

Secure the coupling nut with grub screws

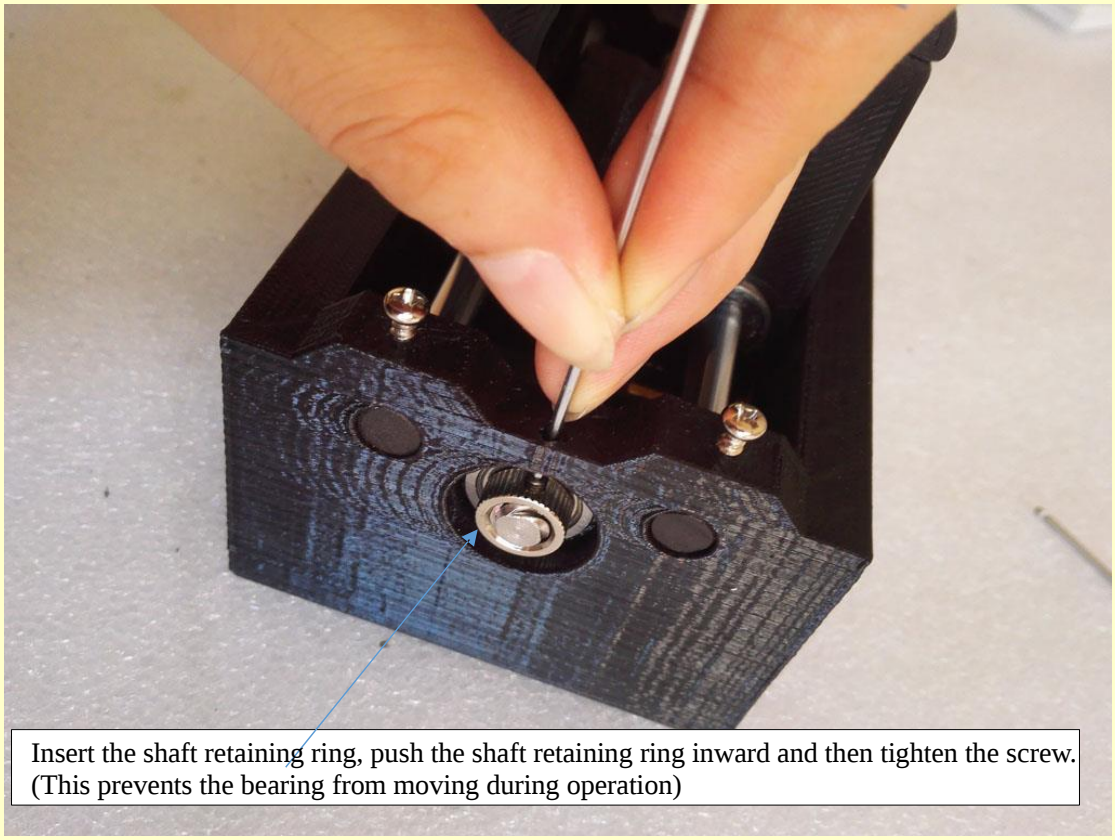




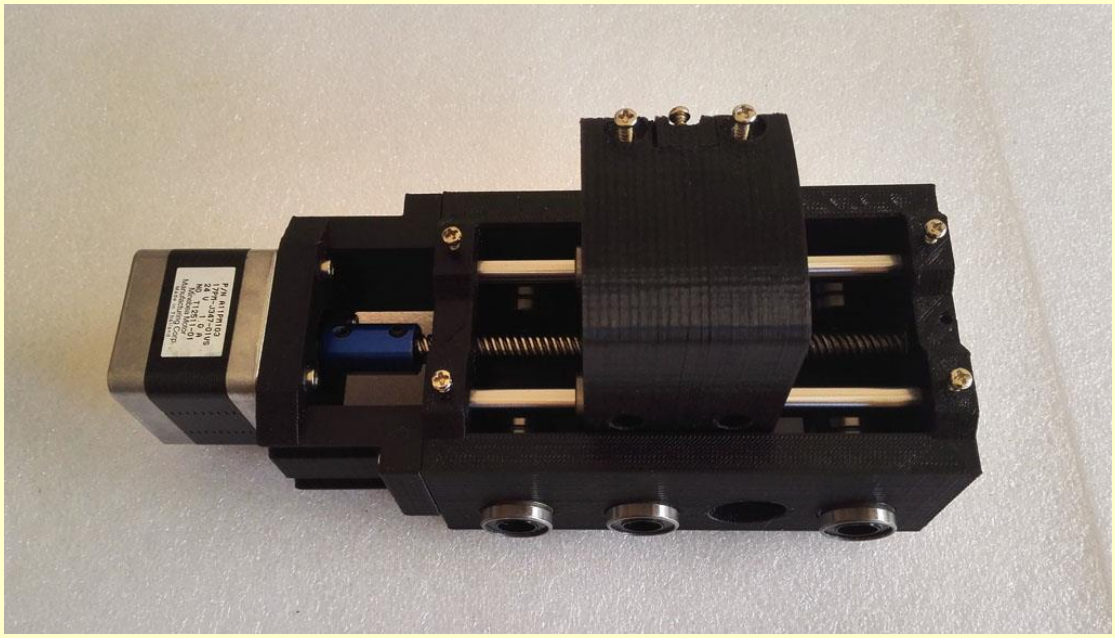


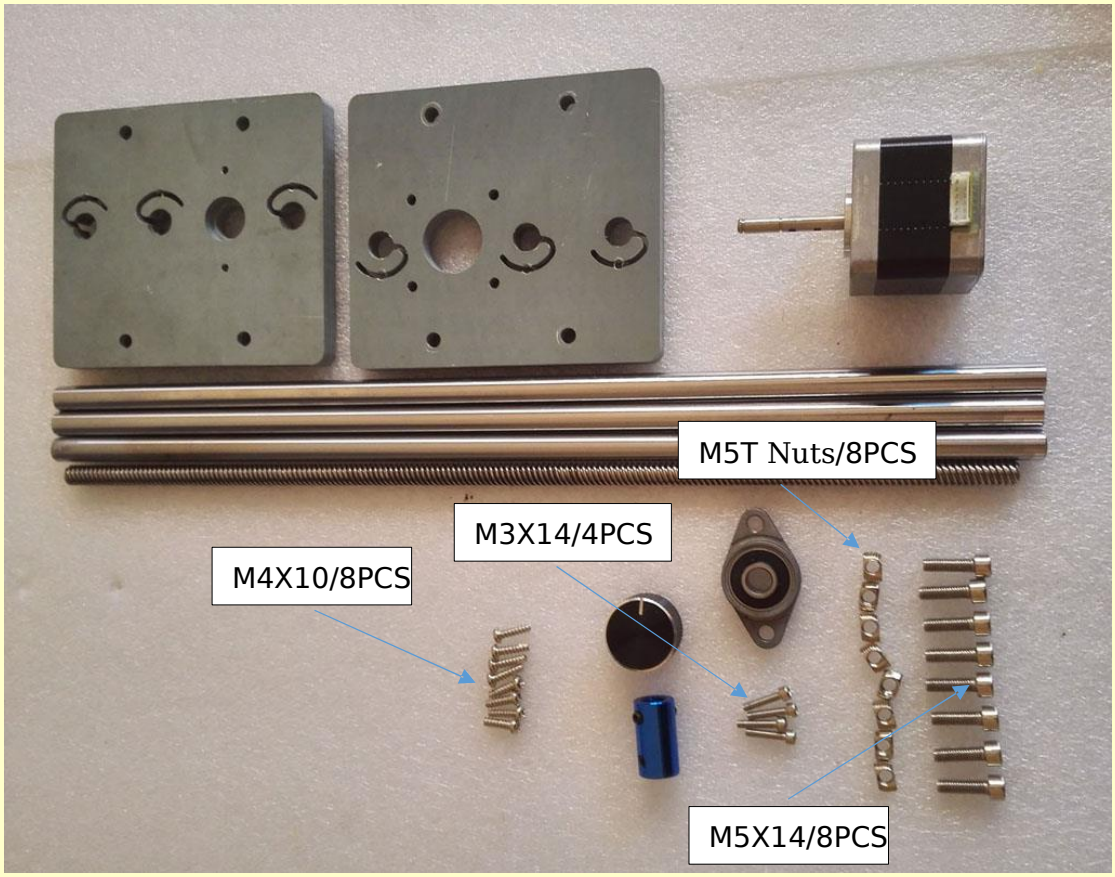

Move the spindle motor clamp close to the stepper motor


M3X16/4PCS Do not use great force



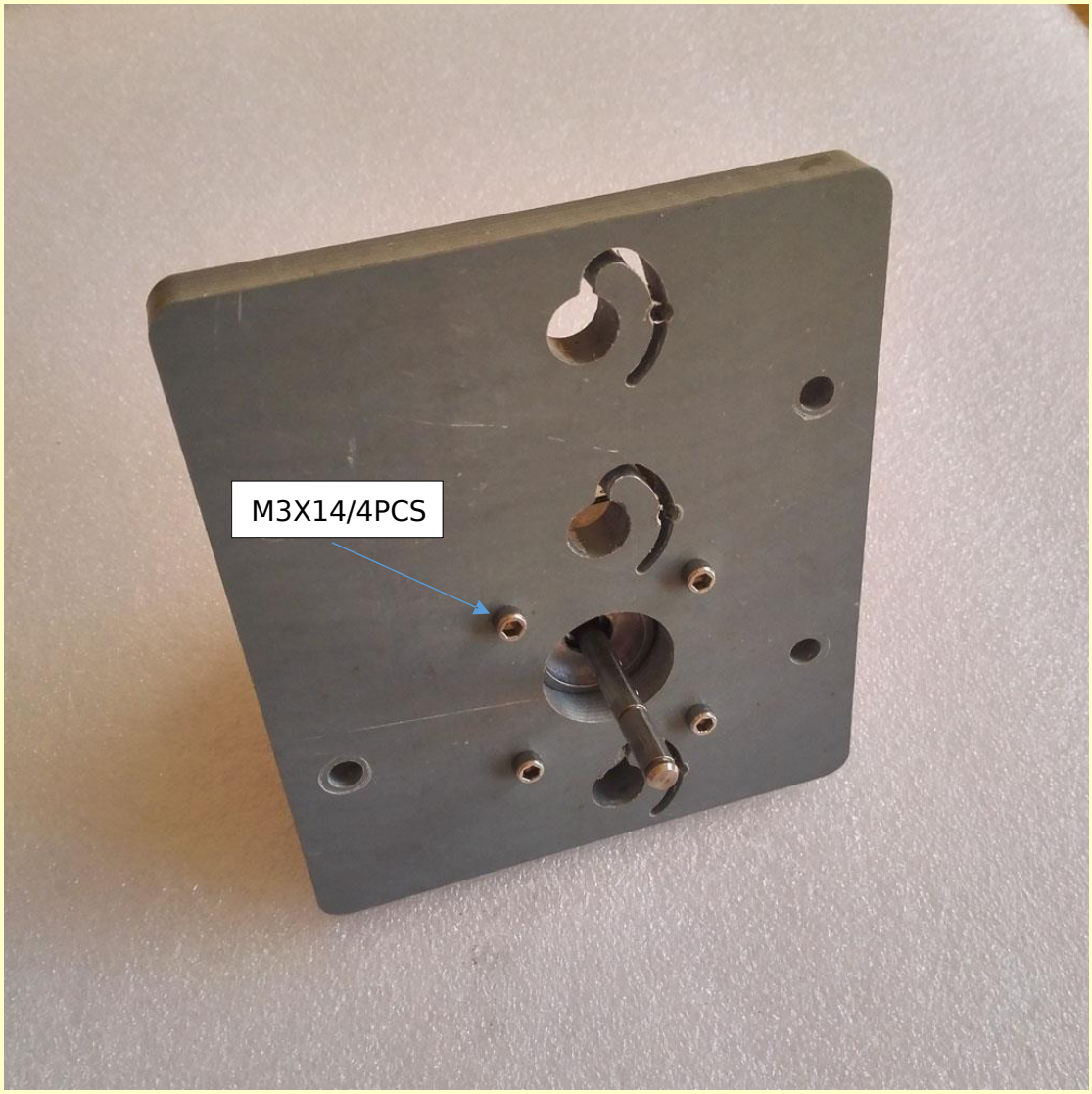
Insert the shaft retaining ring, push the shaft retaining ring inward and then tighten the screw. (This prevents the bearing from moving during operation)



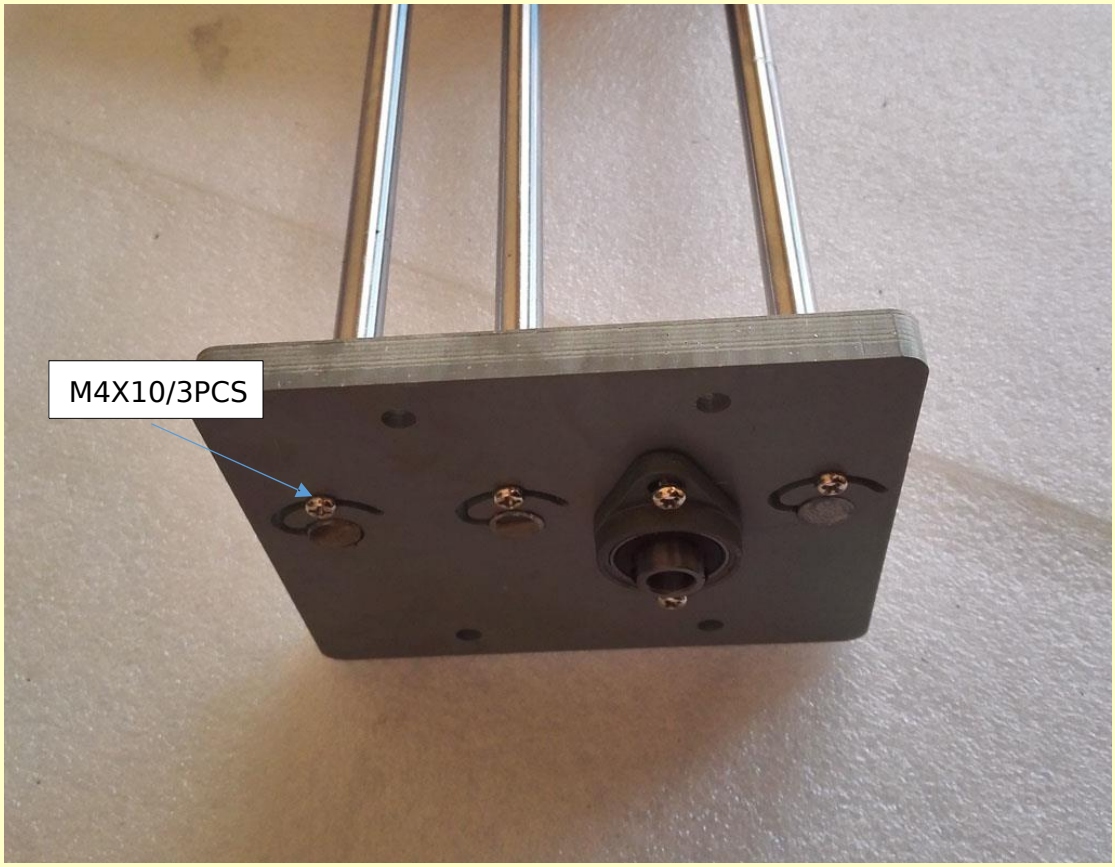


s

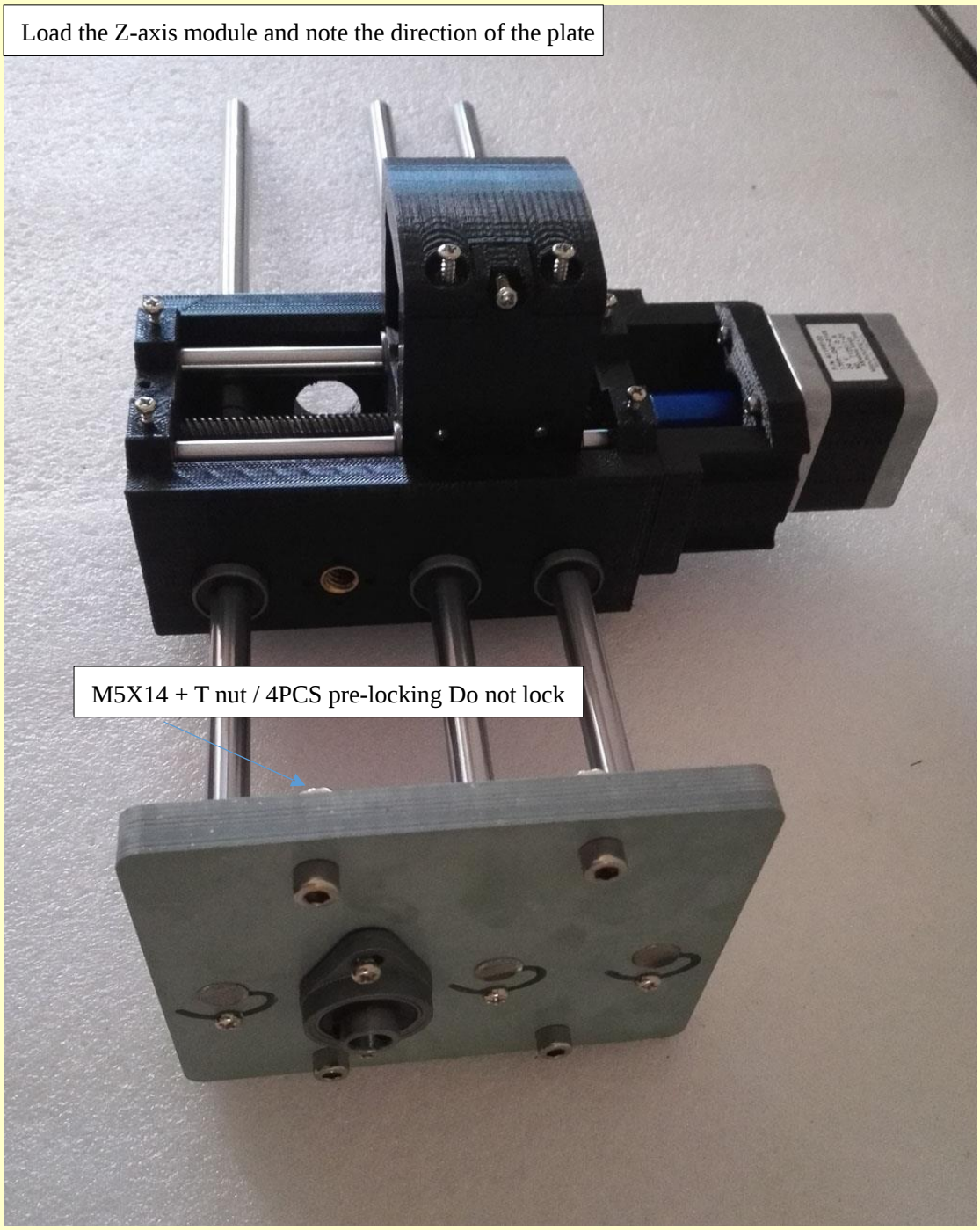
Note the direction of the motor and the board

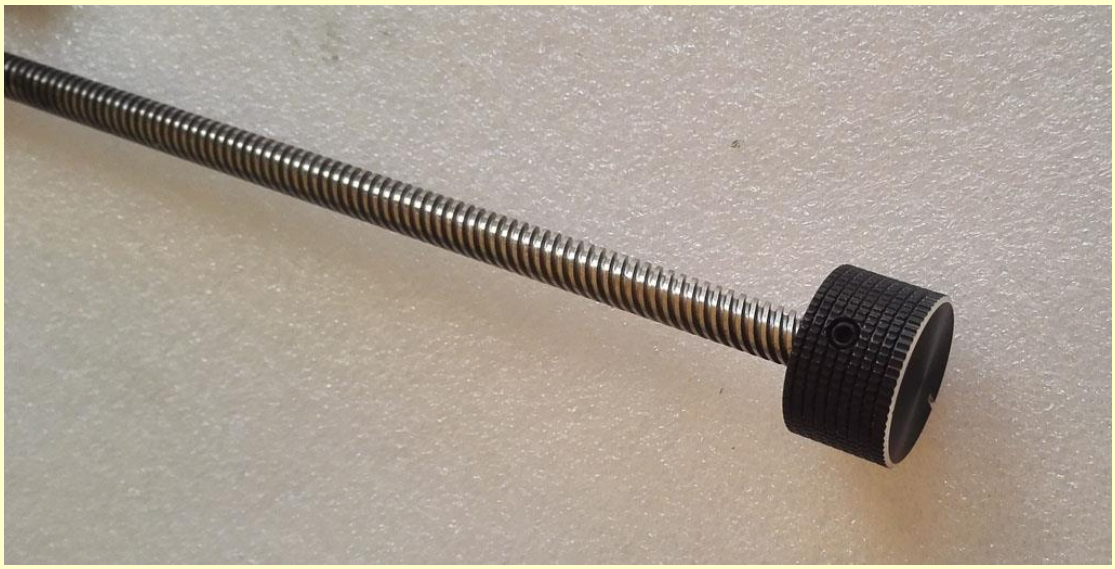

M3X14/4PCS

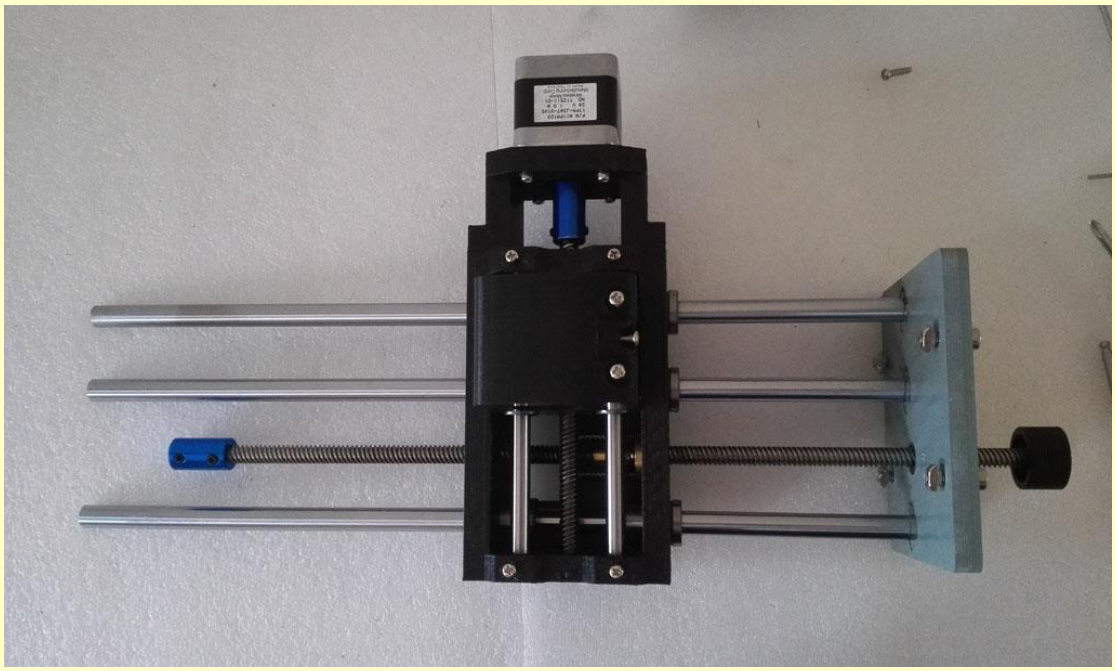

M4X10/2PCS Do not lock yet,
note the direction of the plate


M4X10/3PCS

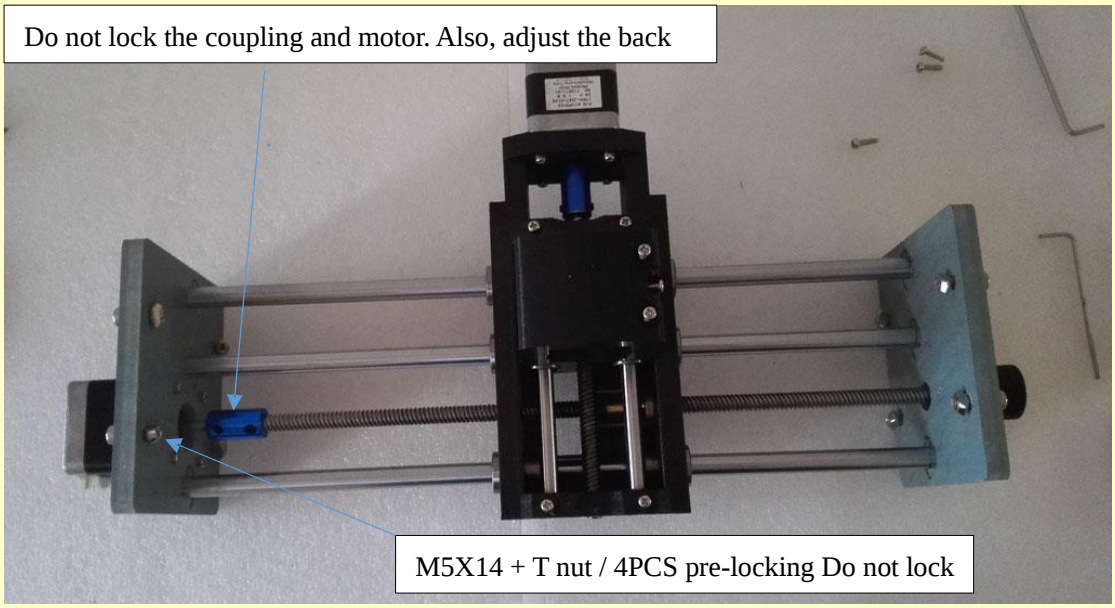
Load the Z-axis module and note the direction of the plate



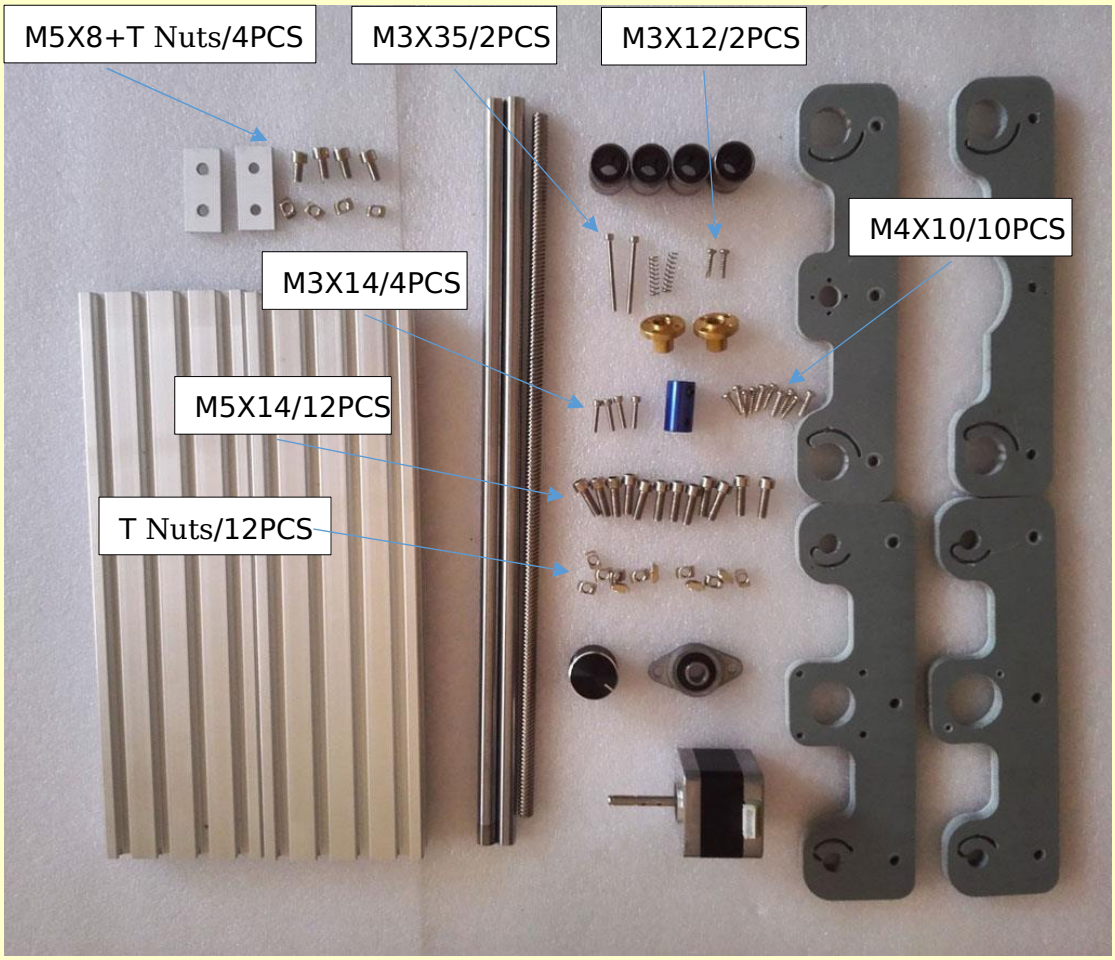




Do not lock the coupling and motor. Also, adjust the back

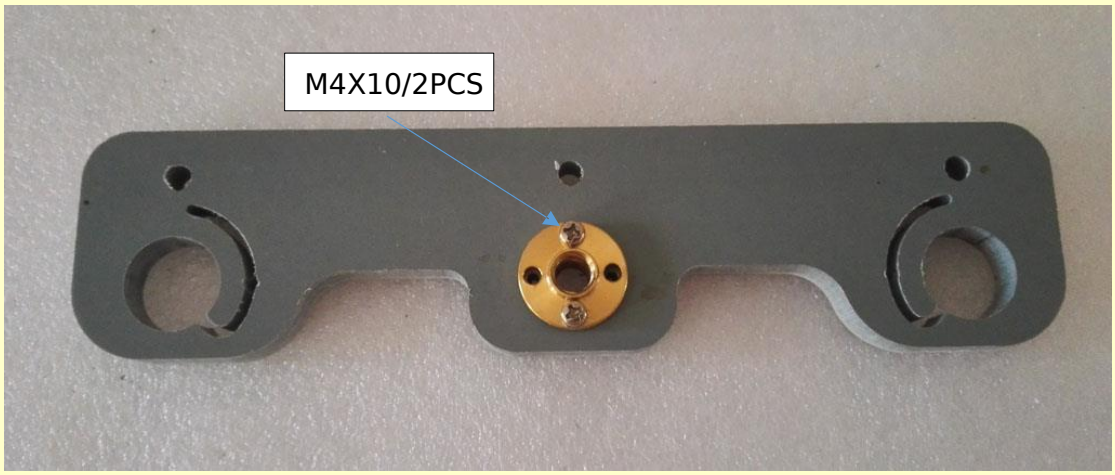


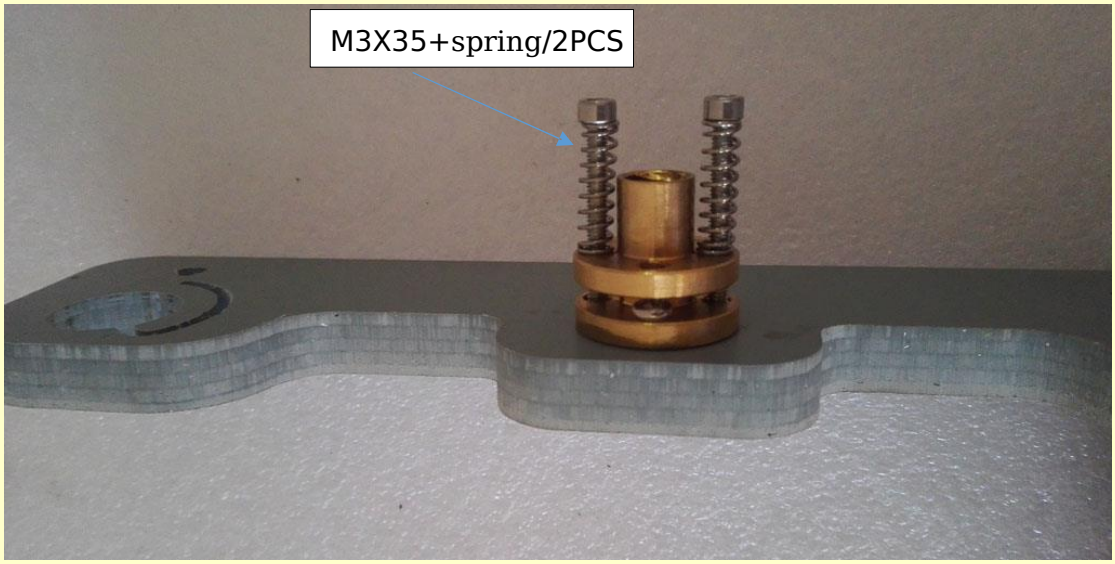
M5X14 + T nut / 4PCS pre-locking Do not lock


M5X8+T Nuts/4PCS
M3X35/2PCS
M3X12/2PCS
M4X10/10PCS
M3X14/4PCS
M5X14/12PCS
T Nuts/12PCS

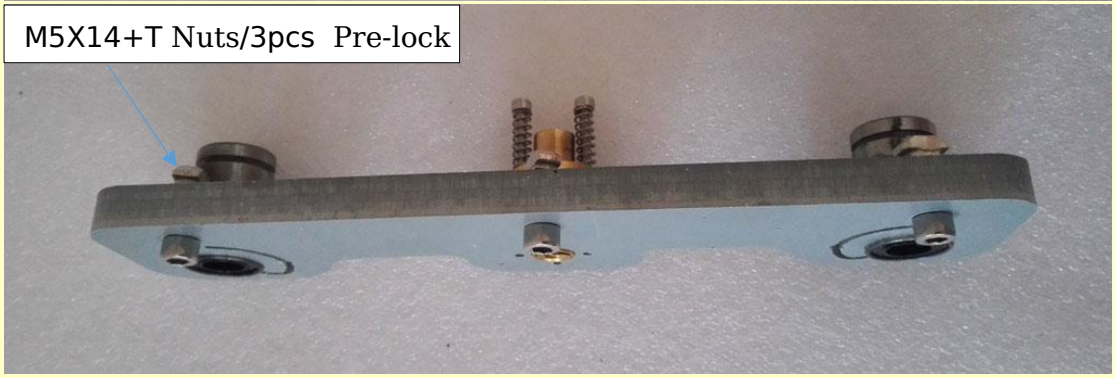

M5X8+T Nut / 4PCS pre-lock, do not lock


Place the aluminium profile on a flat surface (preferably a thick glass plane)
to connect the two aluminium pieces


M4X10/2PCS

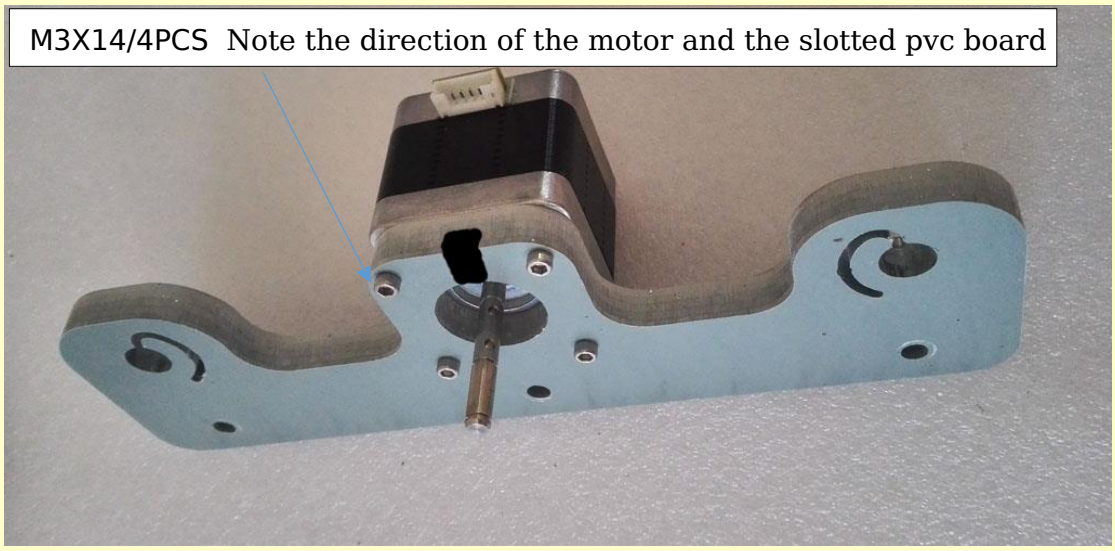

M3X35+spring/2PCS


Load large bearings

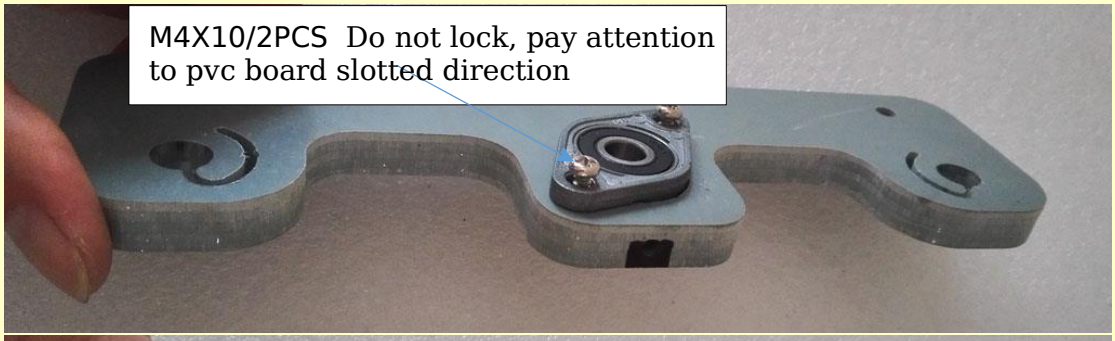

M5X14+T Nuts/3pcs Pre-lock


M4X10/2PCS

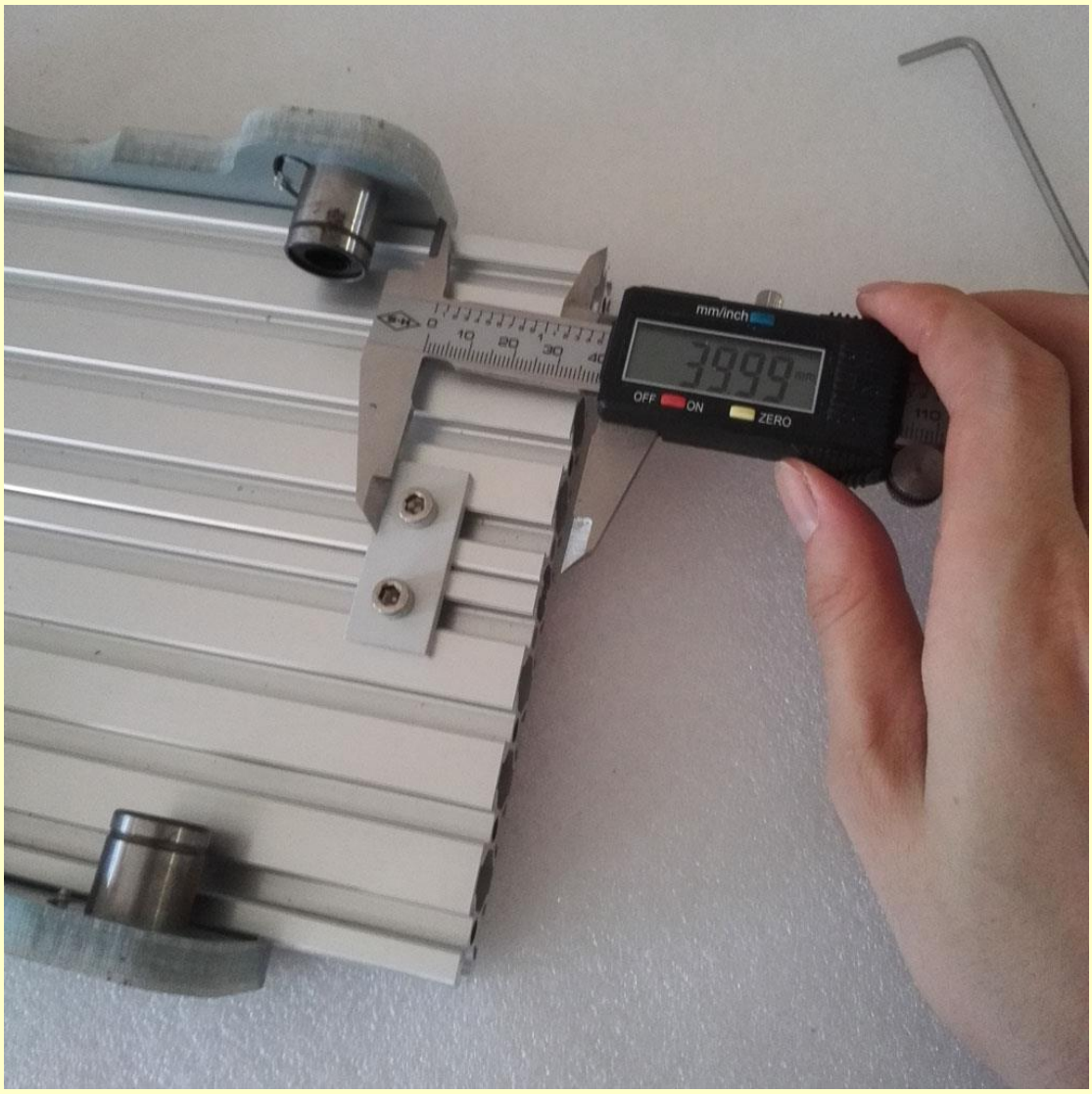

Note orientation

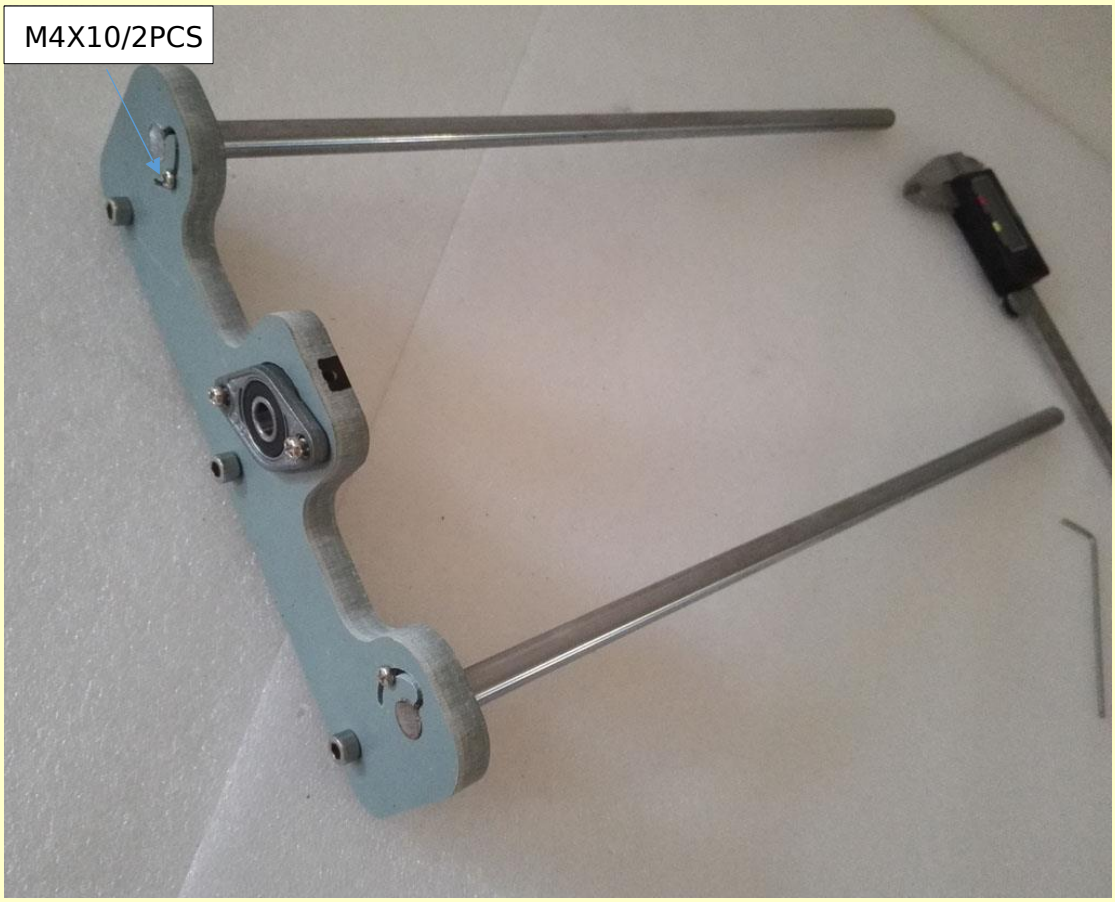

M3X14/4PCS Note the direction of the motor and the slotted pvc board

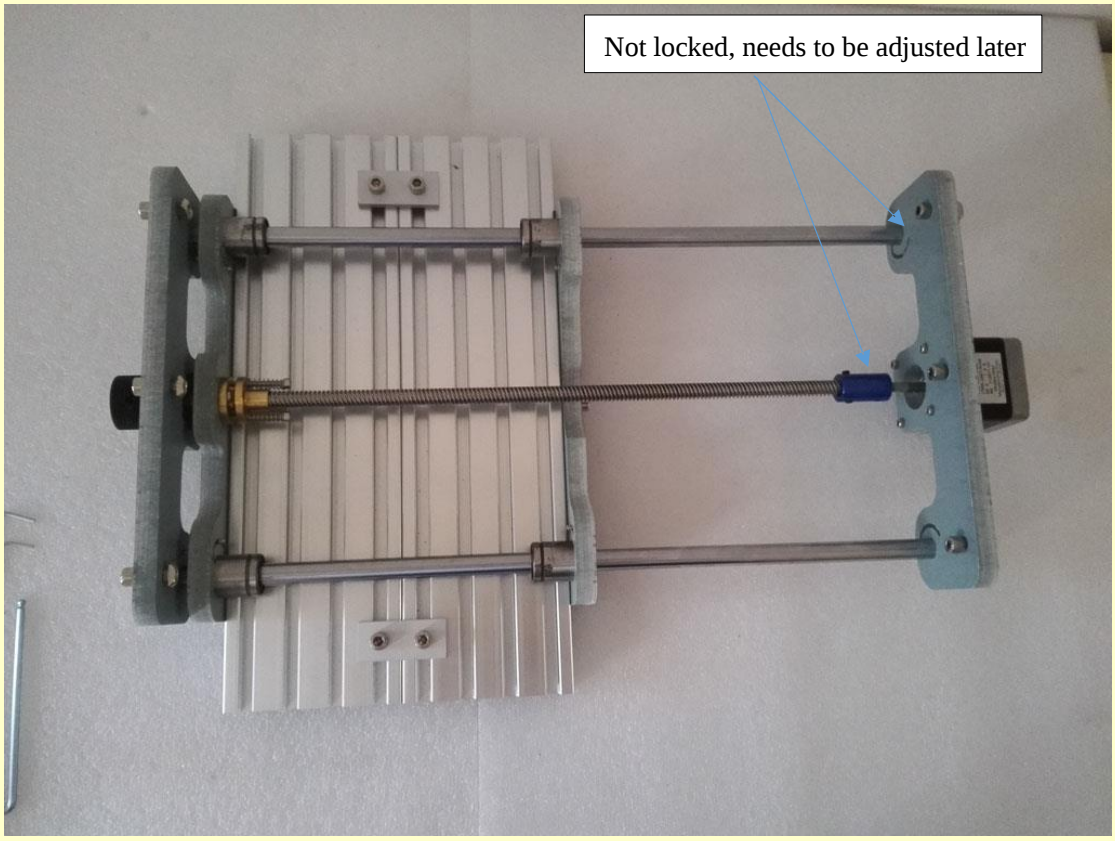

M5X14+T Nut / 3PCS pre-lock


M4X10/2PCS Do not lock, pay attention to pvc board slotted direction


mm/inch
4000
OFF
ON
ZERO


mm/inch
39.99
OFF
ON
ZERO

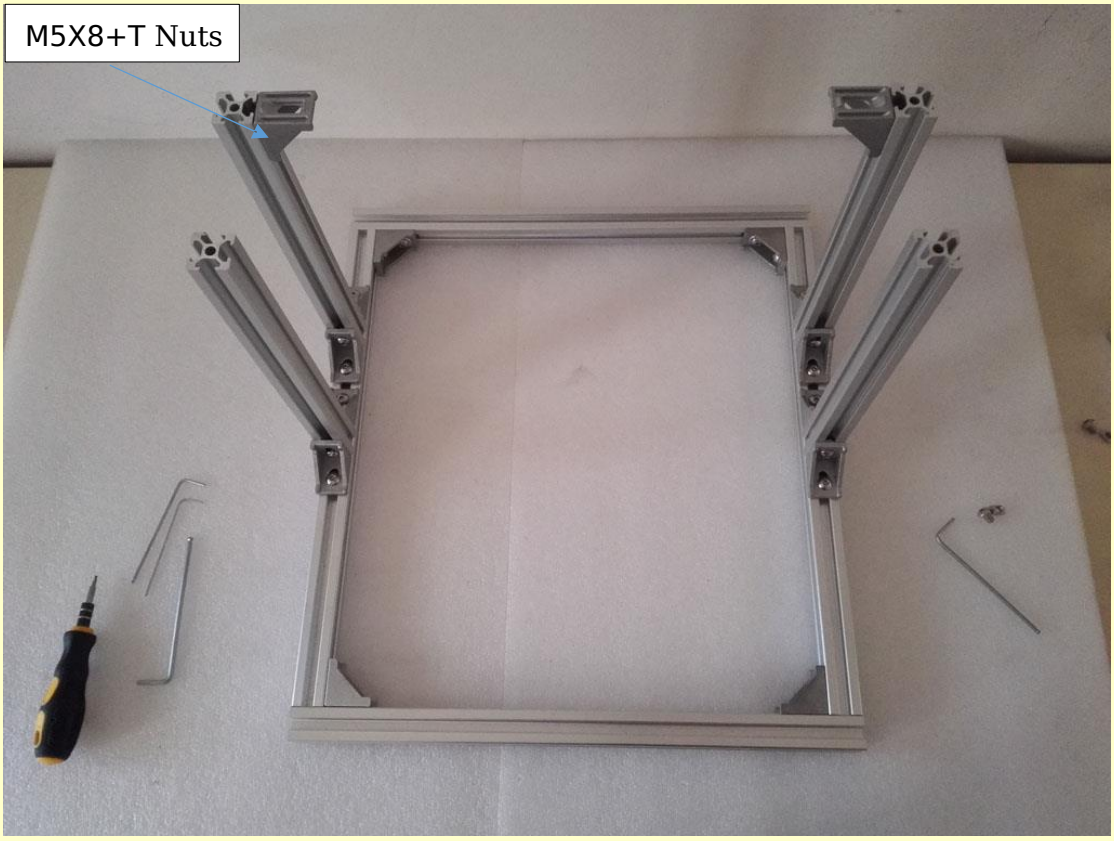

M4X10/2PCS

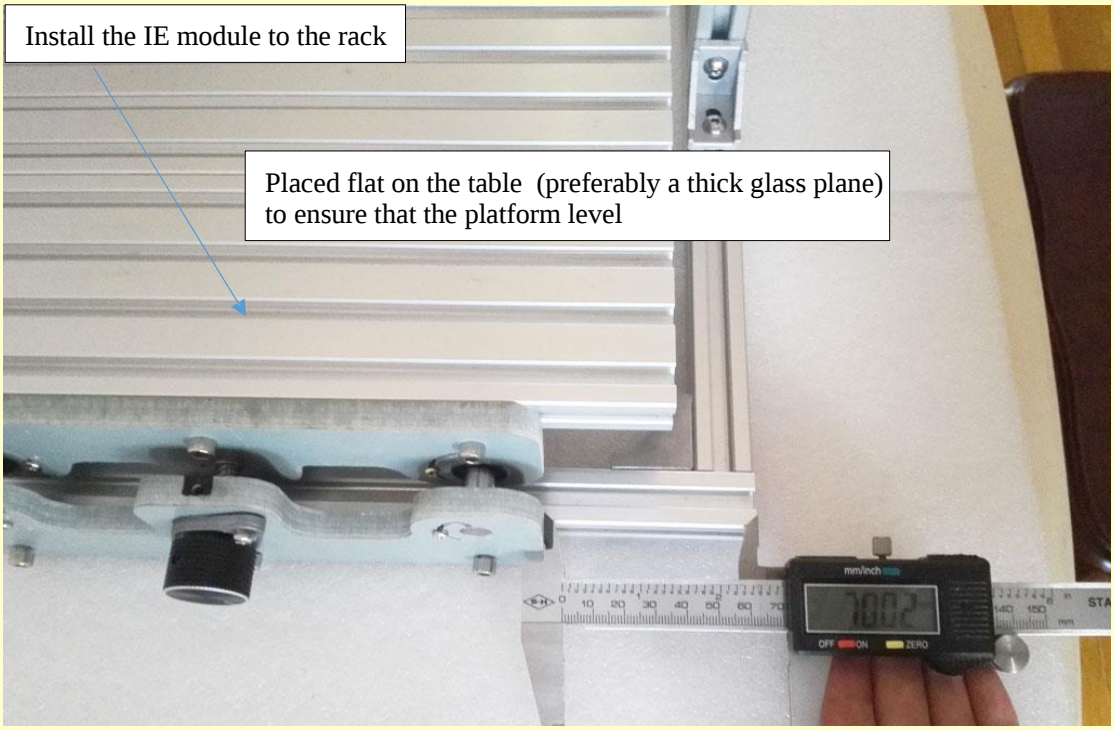

Not locked, needs to be adjusted later


Place the aluminium profile on a flat surface (preferably a thick glass plane)
M5X8 + T nuts
Not locked, needs to be adjusted later
This surface is not flat

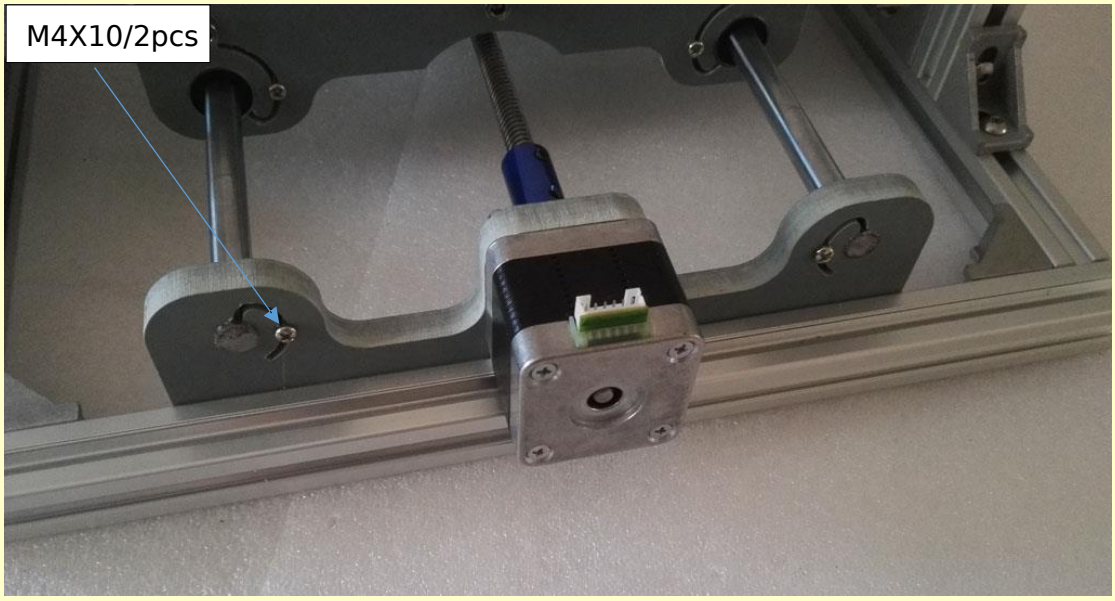

mm/inch
7006
OFF ON ZERO


Insert the M5X8 screw as a spacer and remove it after installation


M5X8+T Nuts


Install the IE module to the rack
Placed flat on the table (preferably a thick glass plane) to ensure that the platform level

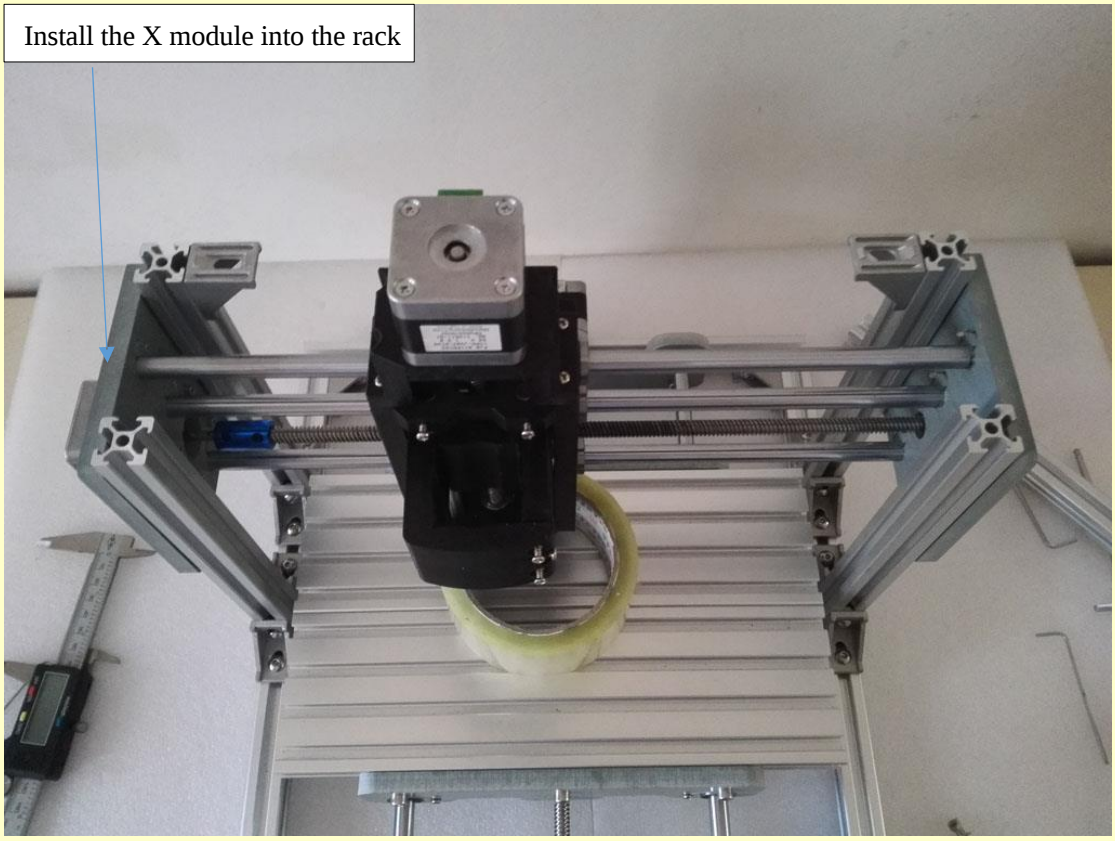

Lock front and rear panels
The distance here is the same as above
M4X10/2pcs Move the platform close to this side before locking


M4X10/2pcs

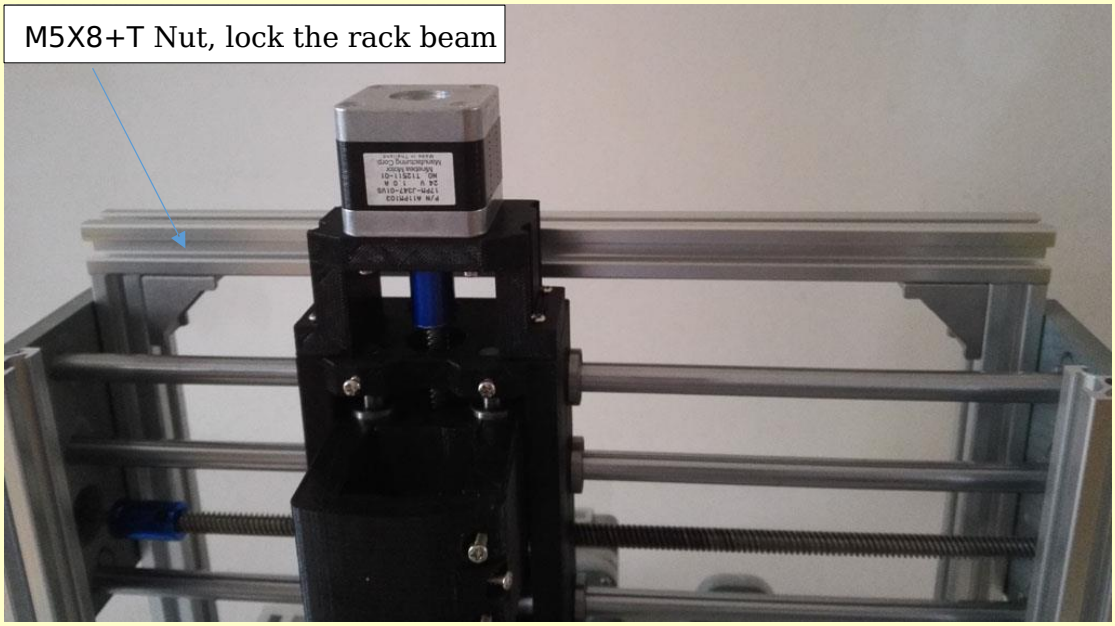

Move the platform to this side and lock the coupling

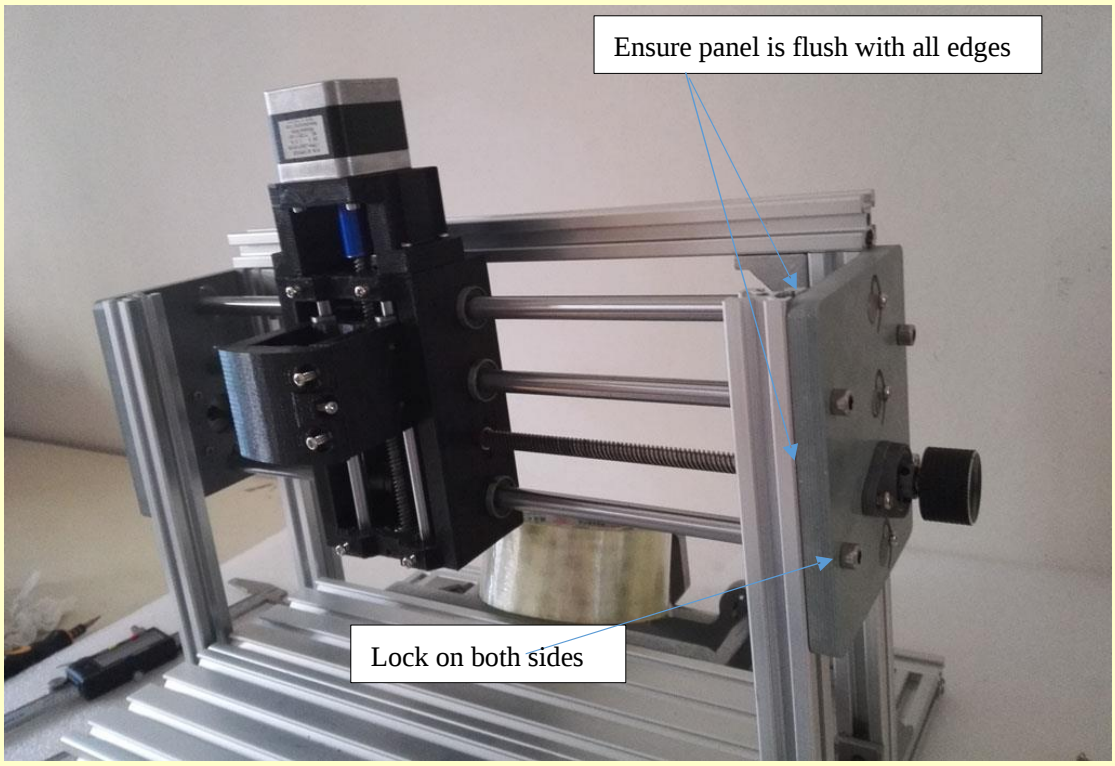

Lock shaft seat and screw

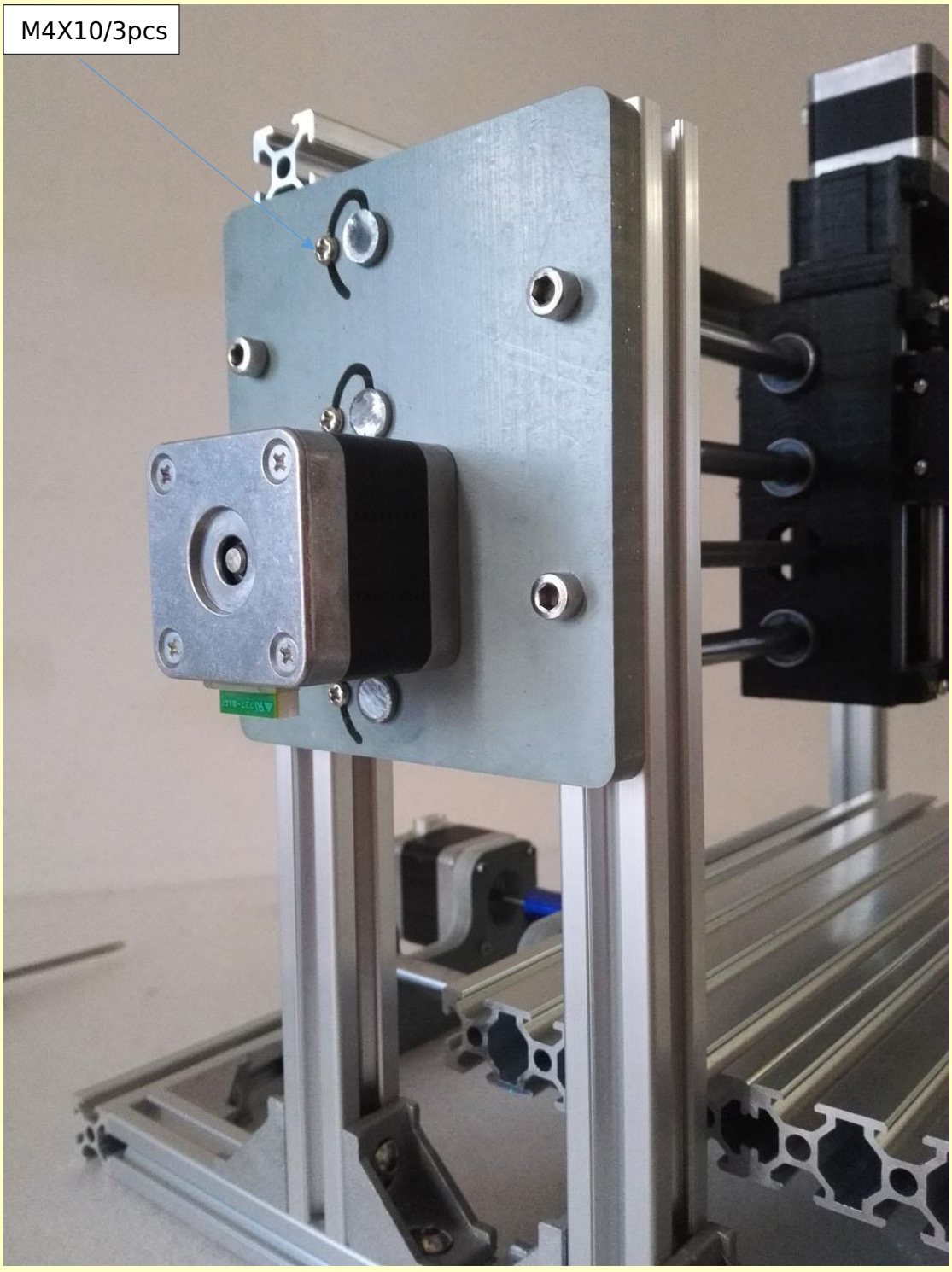
Install the X module into the rack

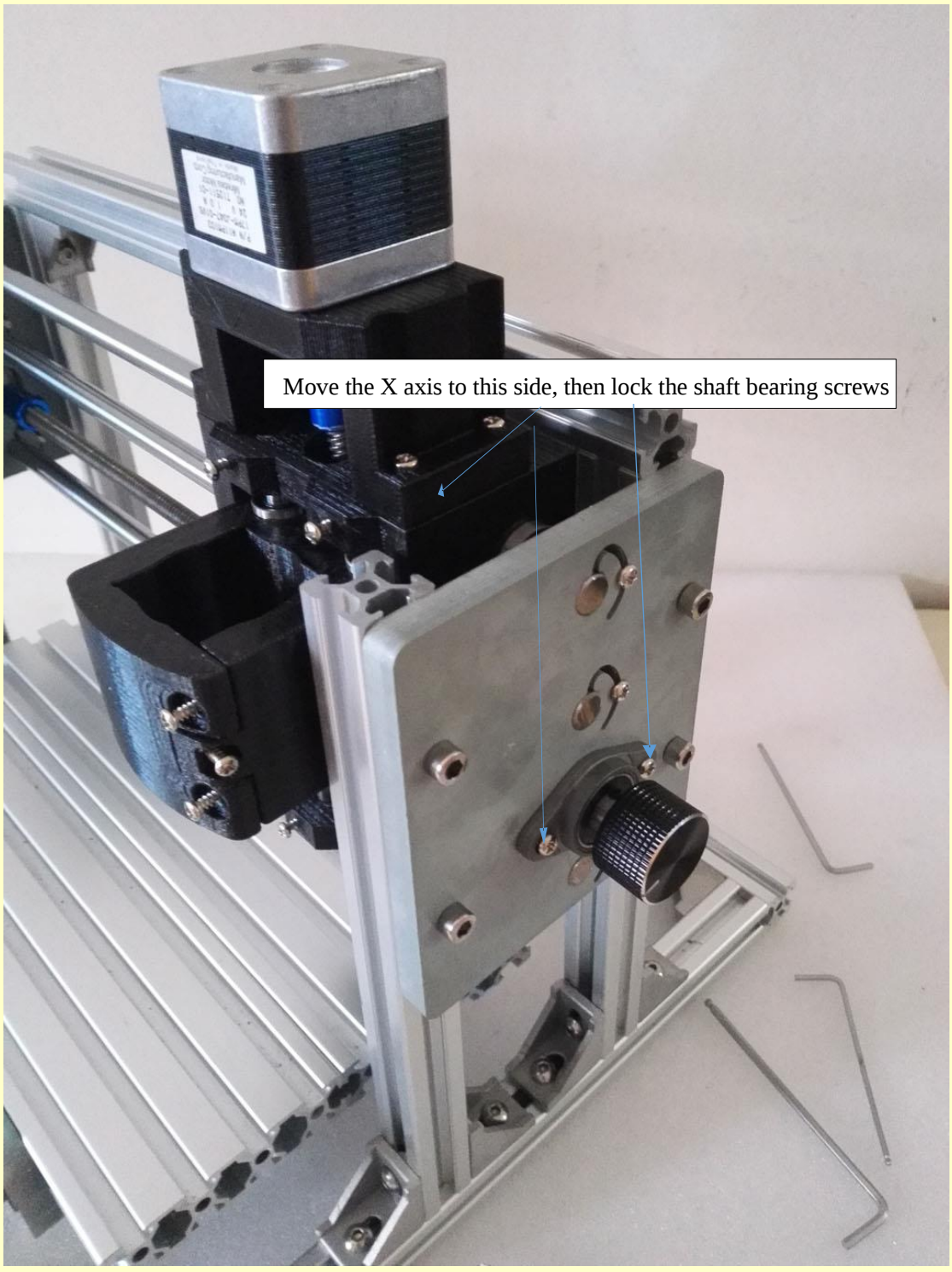


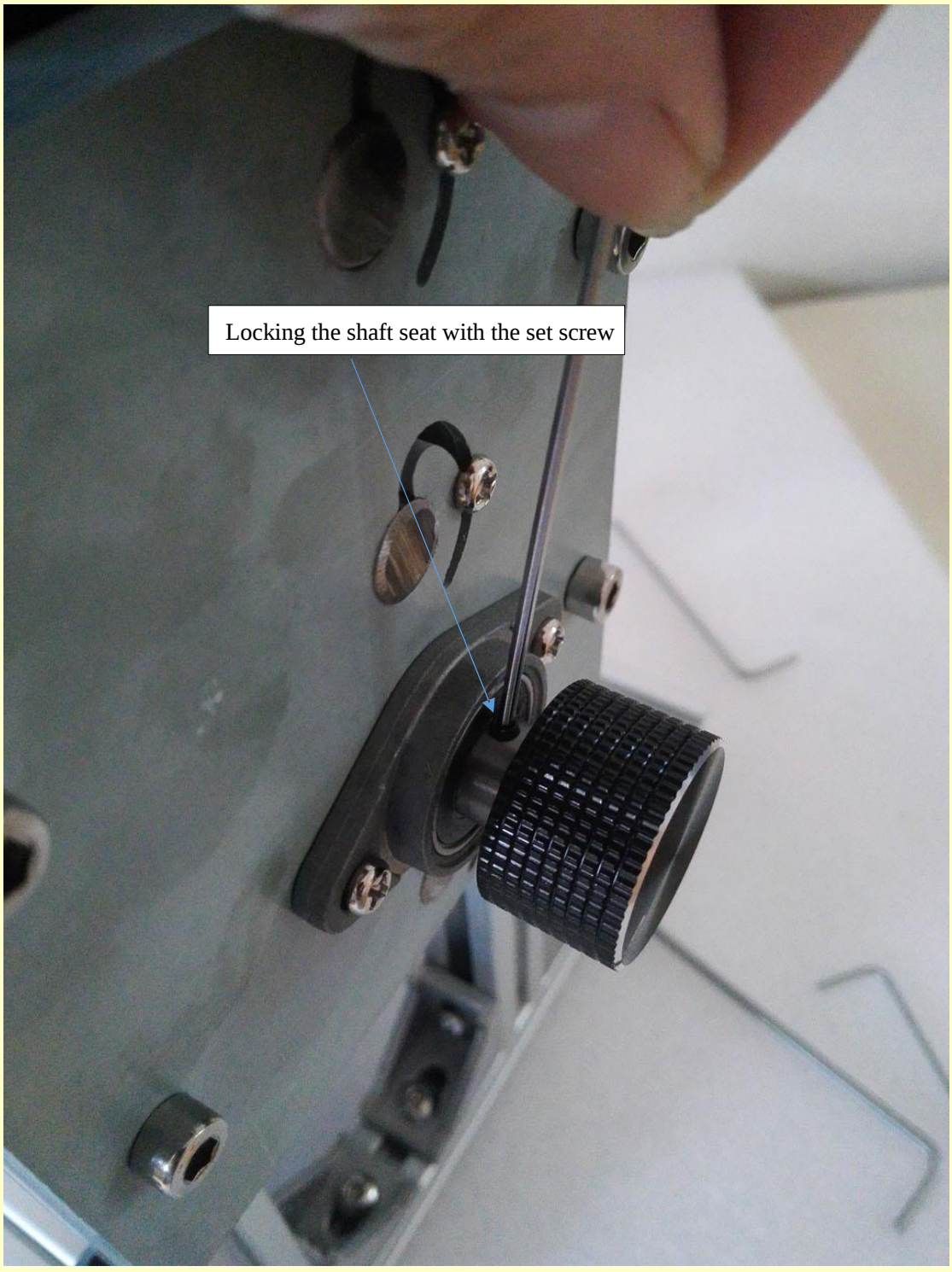
M5X8+T Nut, lock the rack beam

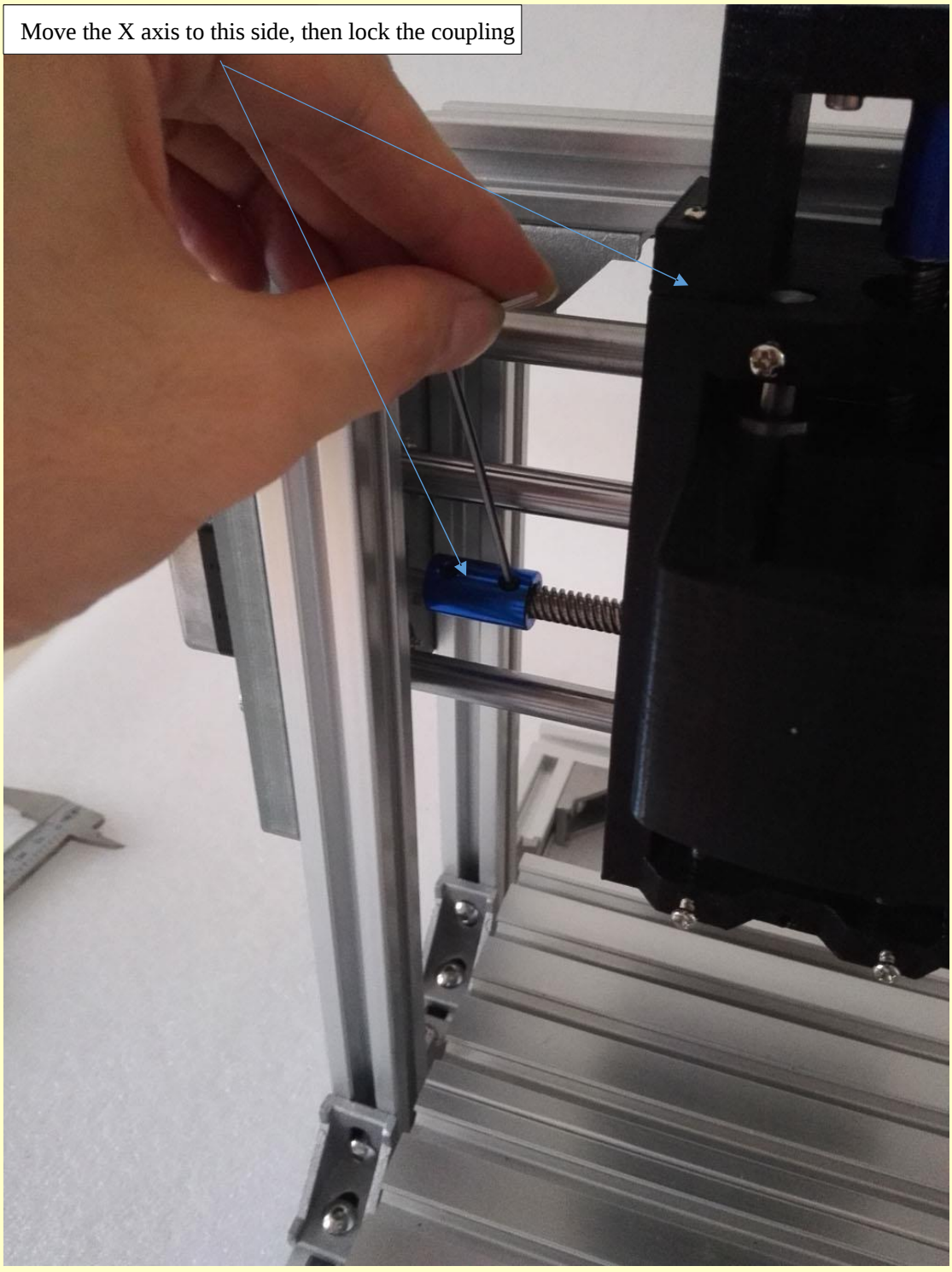



Ensure panel is flush with all edges
Lock on both sides

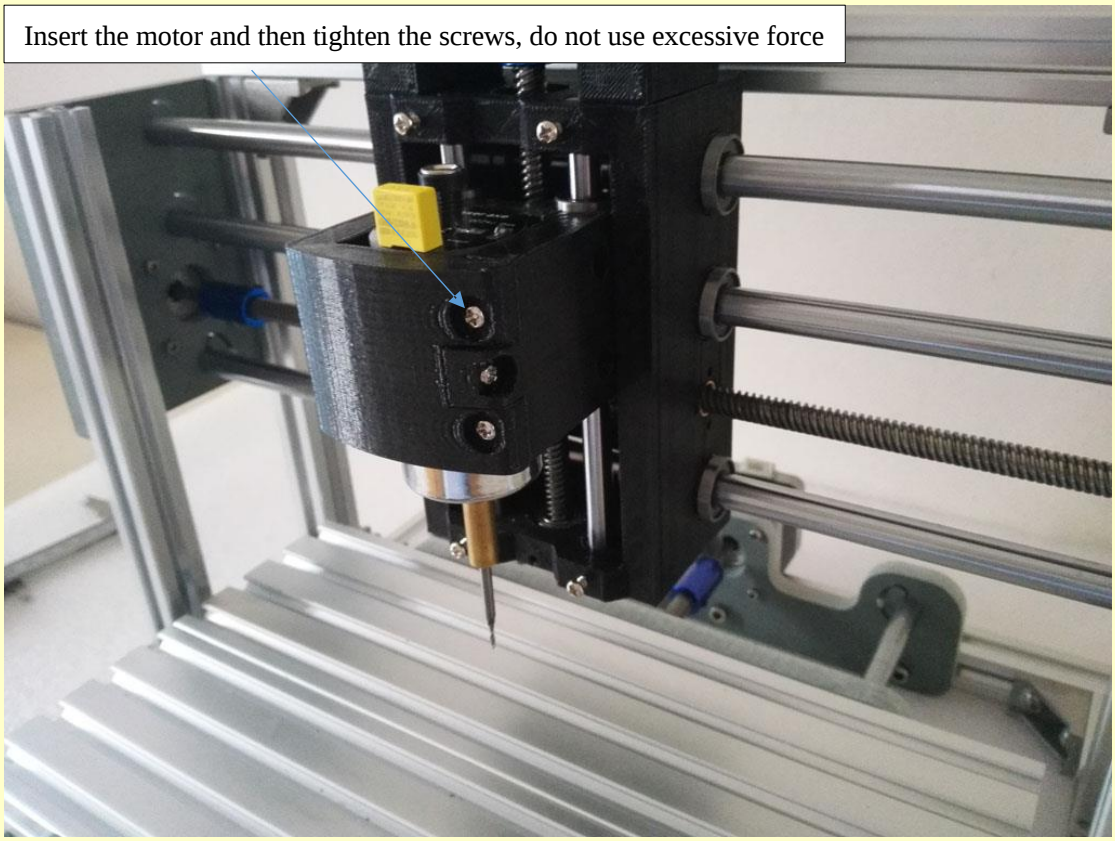

M4X10/3pcs

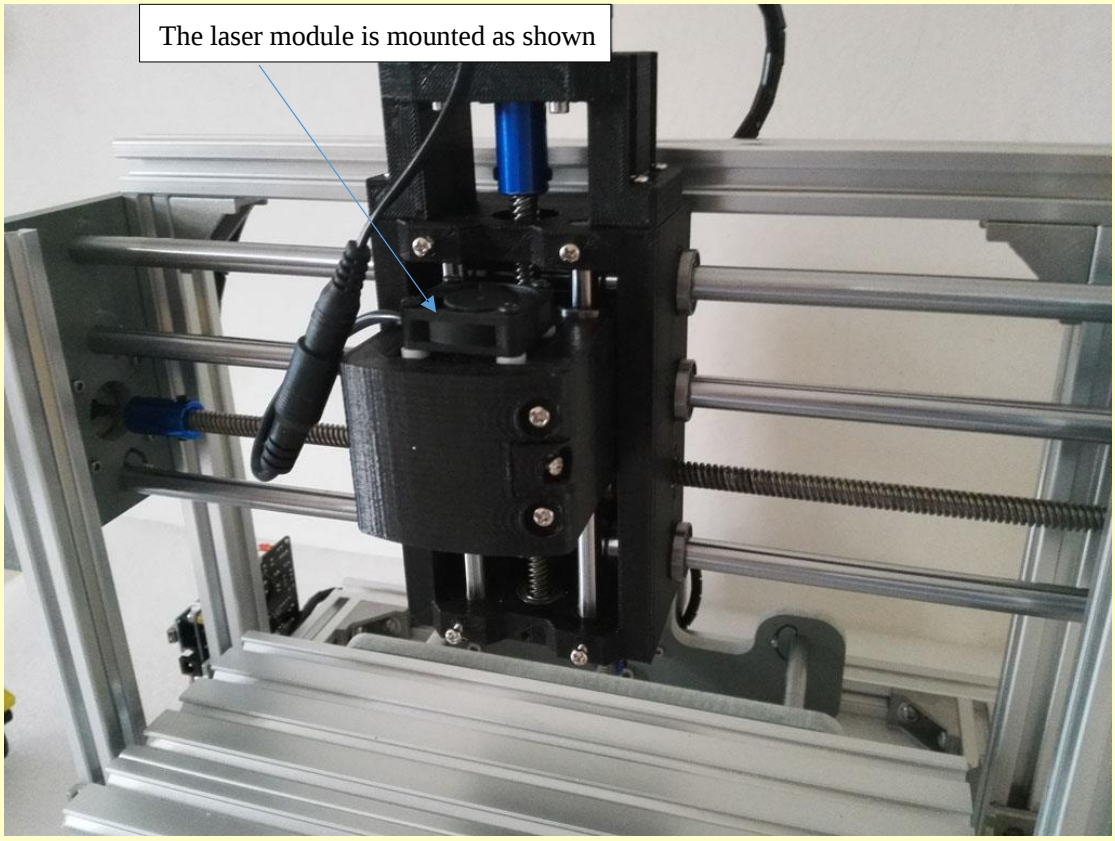

Move the X axis to this side, then lock the shaft bearing screws

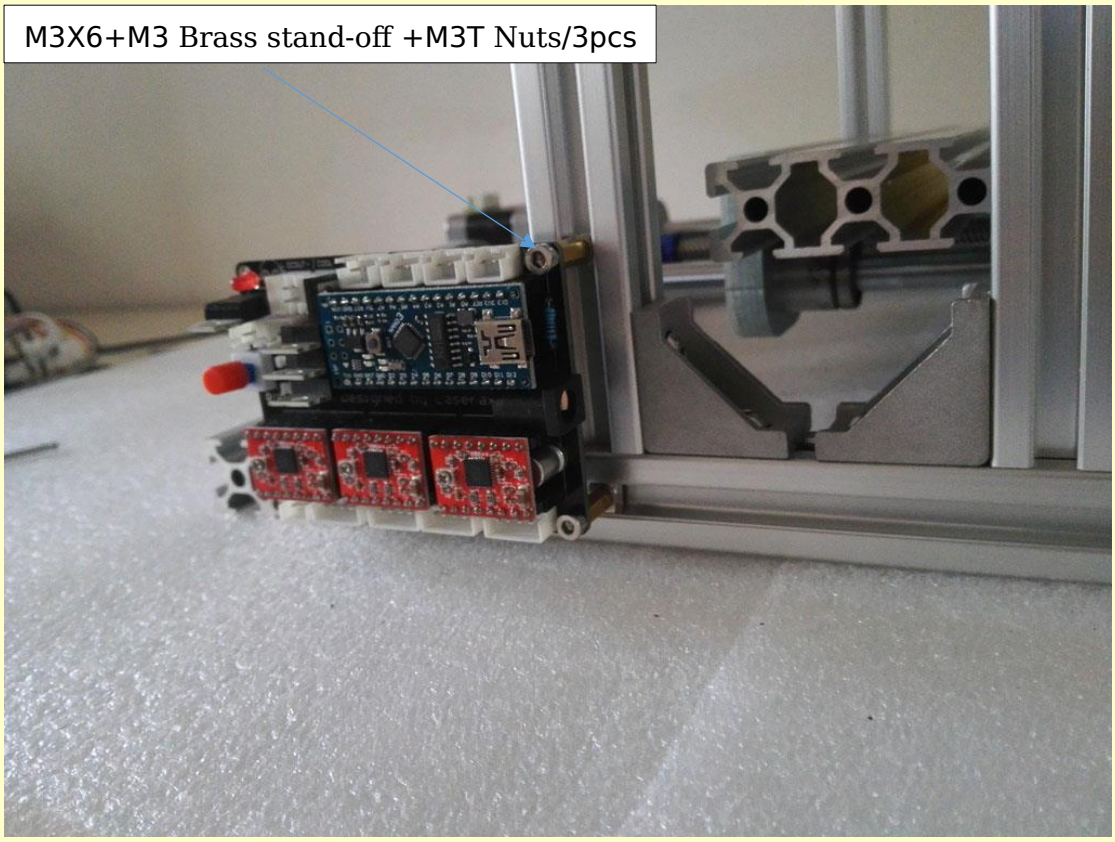

Locking the shaft seat with the set screw

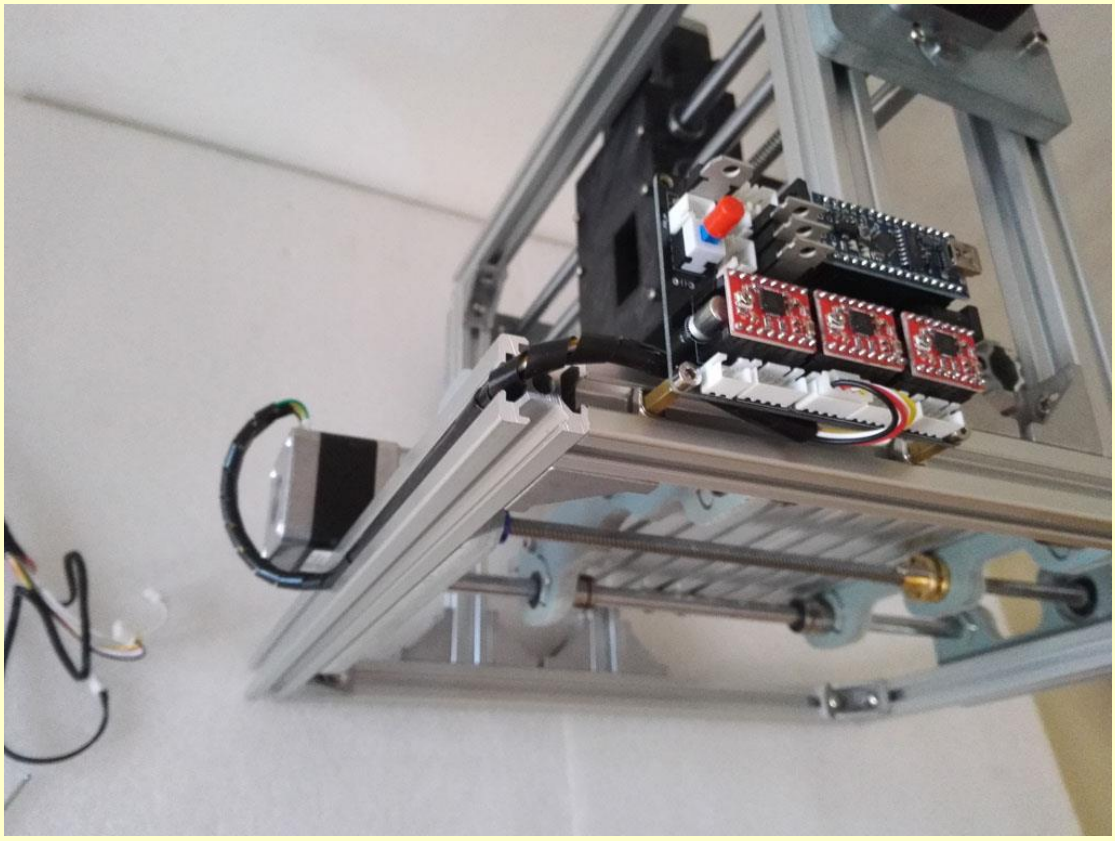

Move the X axis to this side, then lock the coupling

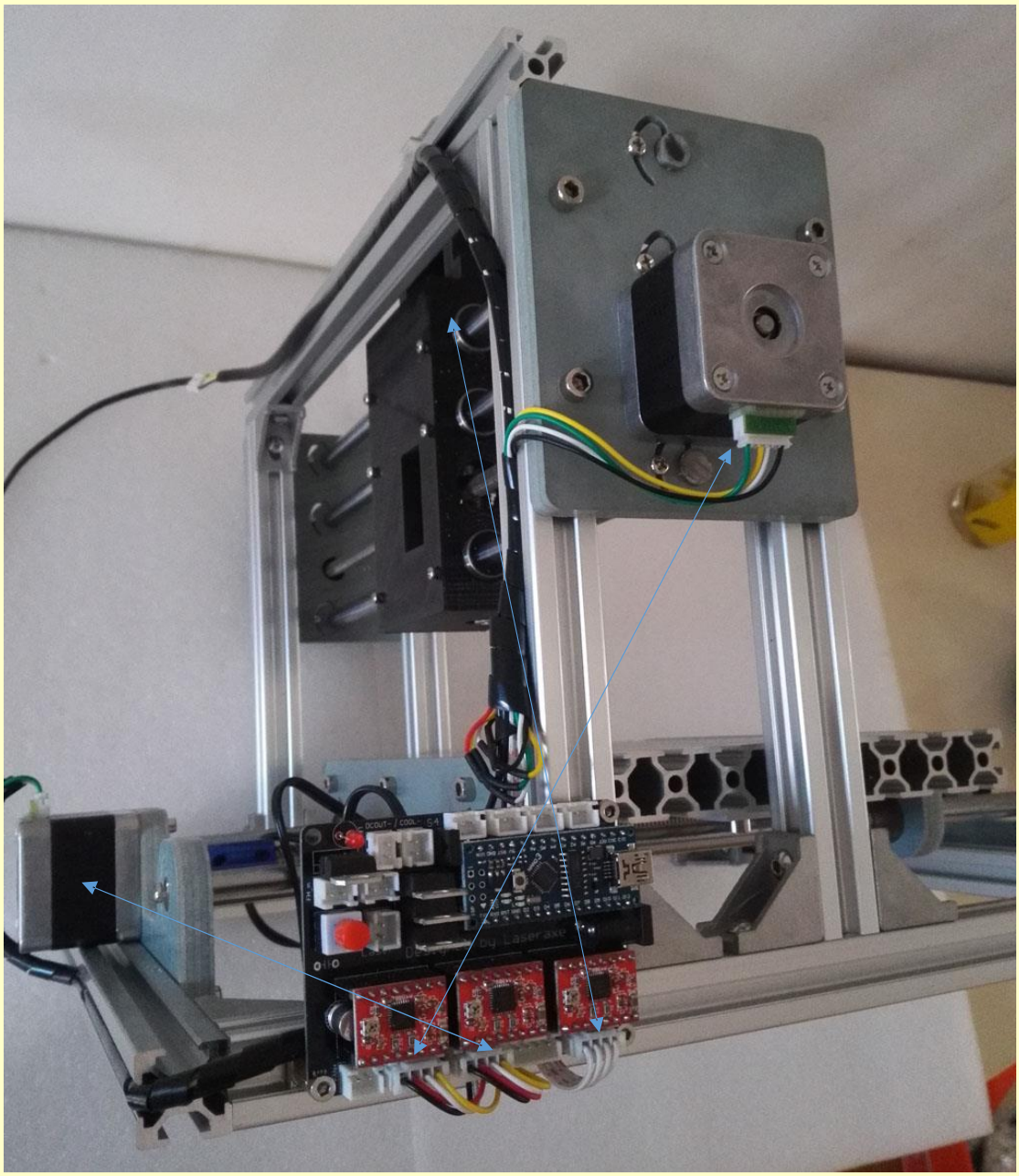
Insert the motor and then tighten the screws, do not use excessive force

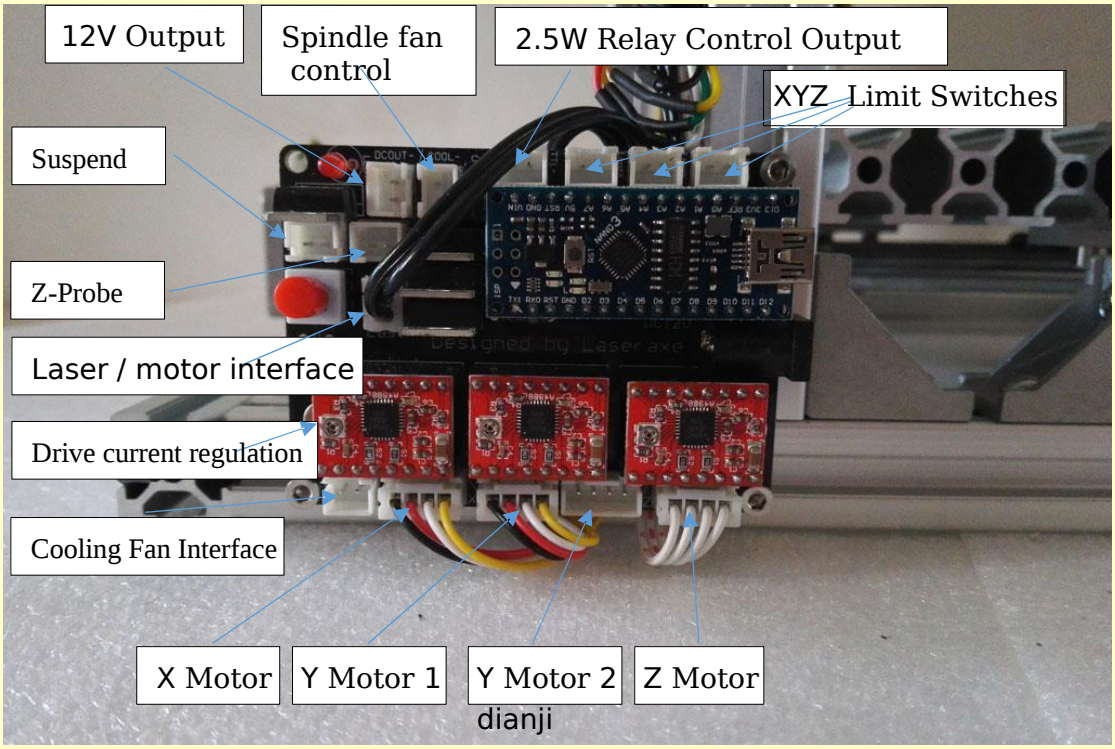


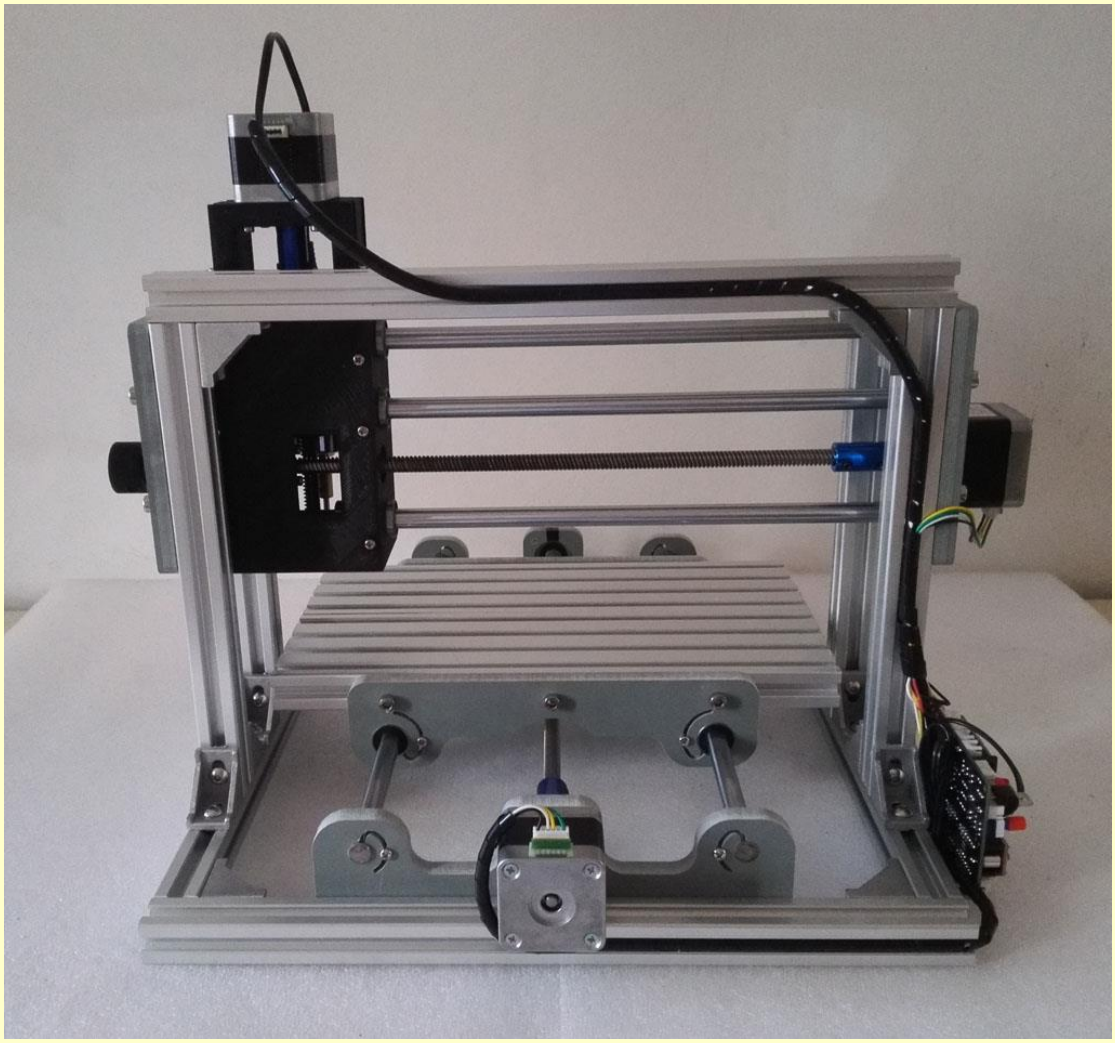

The laser module is mounted as shown

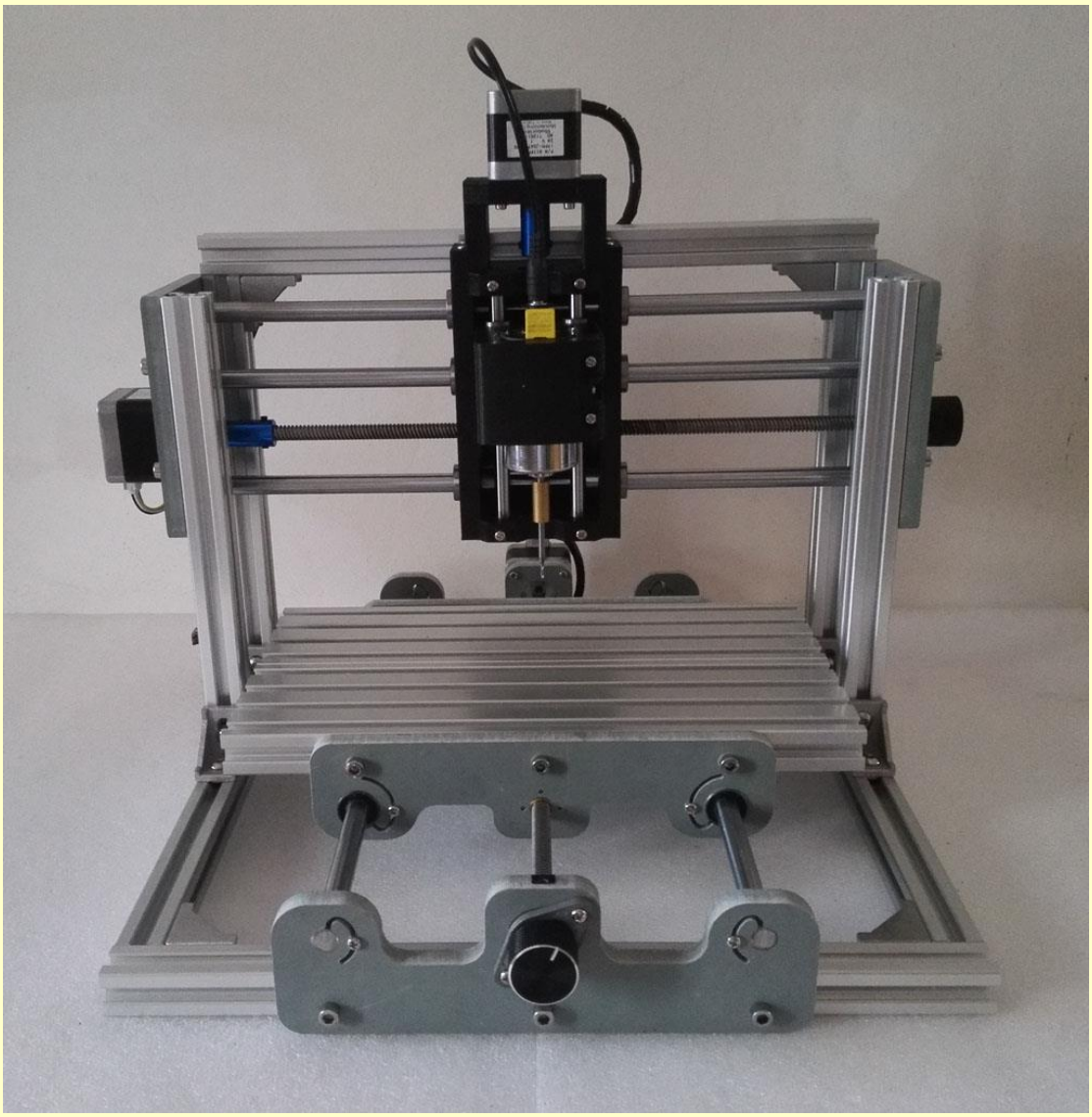

M3X6+M3 Brass stand-off +M3T Nuts/3pcs






12V Output
Spindle fan control
2.5W Relay Control Output
XYZ_Limit Switches
Suspend
Z-Probe
Laser / motor interface
Drive current regulation
Cooling Fan Interface
X Motor
Y Motor 1
Y Motor 2
Z Motor
dianji





Congratulations on the completion of the installation of the engraving machine!

Please lubricate the lead-screws and sliders with oil!

Rotate the lead screws by hand. The shaft should rotate smoothly.
If necessary, please release the couplings for fine-tuning.

Finally, check all screws for tightness

After the completion of power test machine.

The provided software and tutorials require user self-learning °