

Preparation and steps



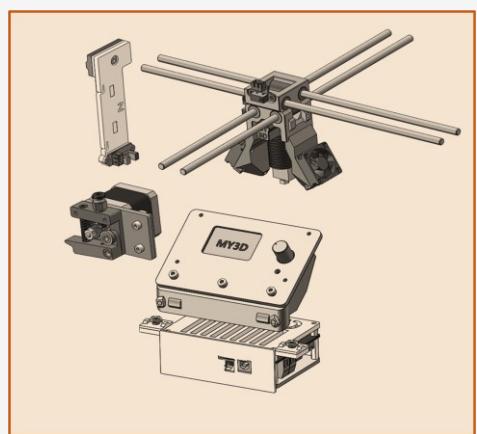
1



2

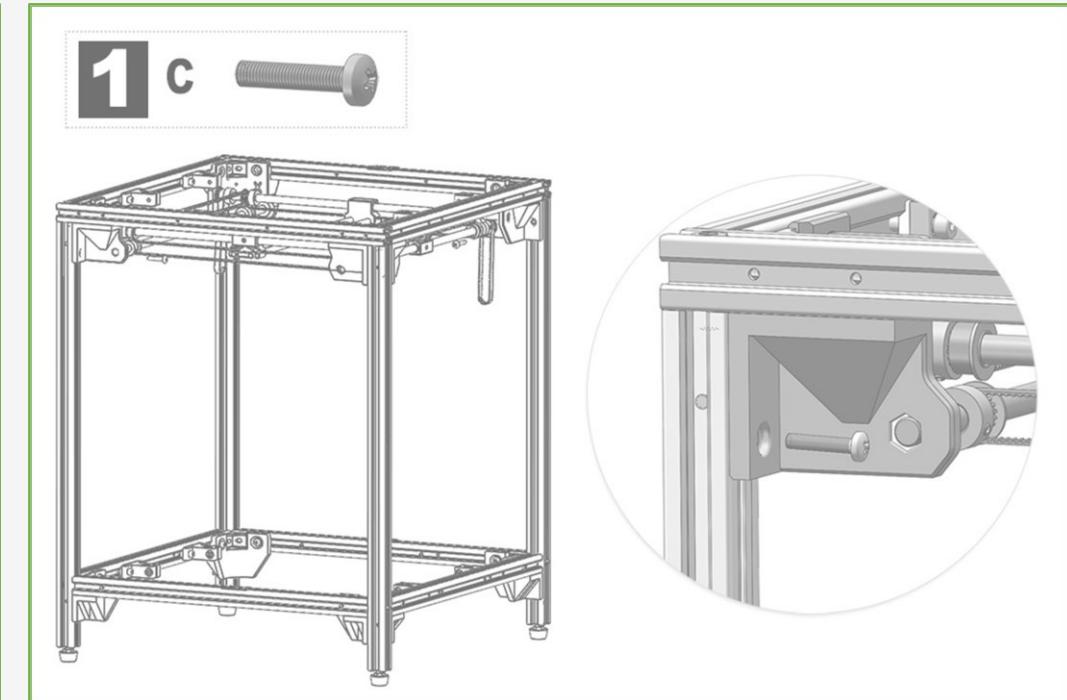


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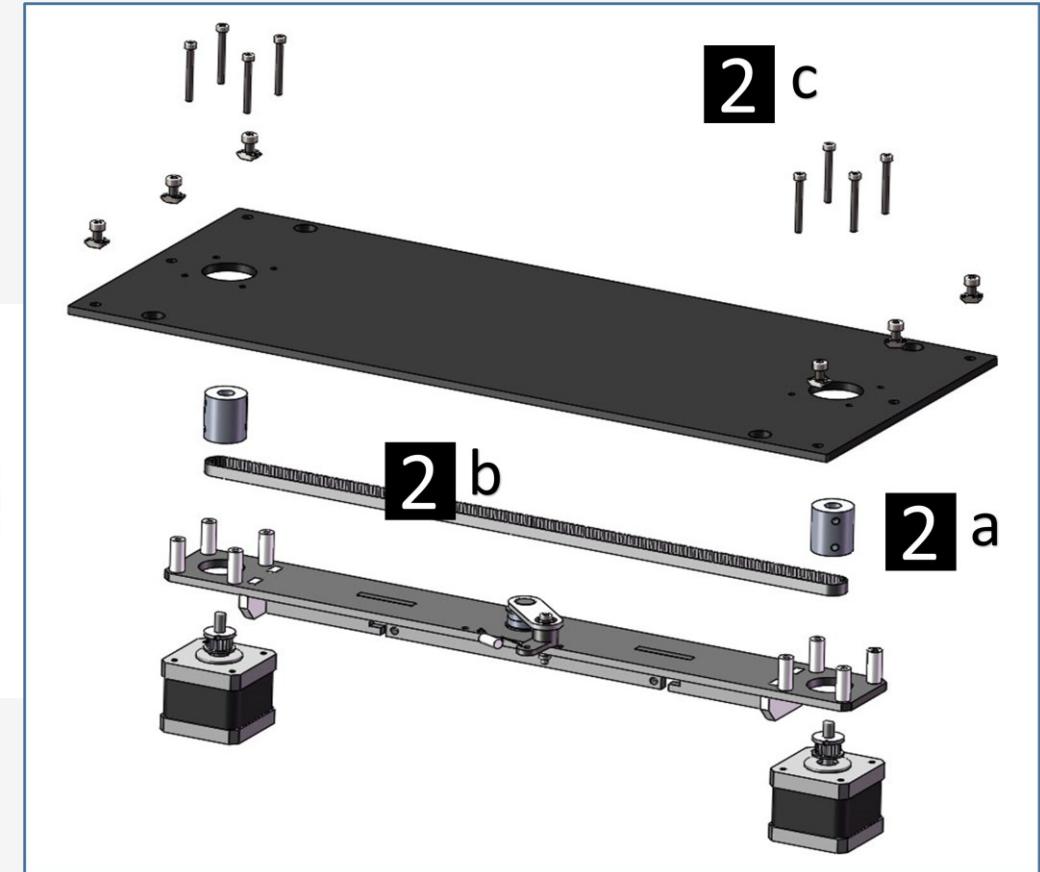
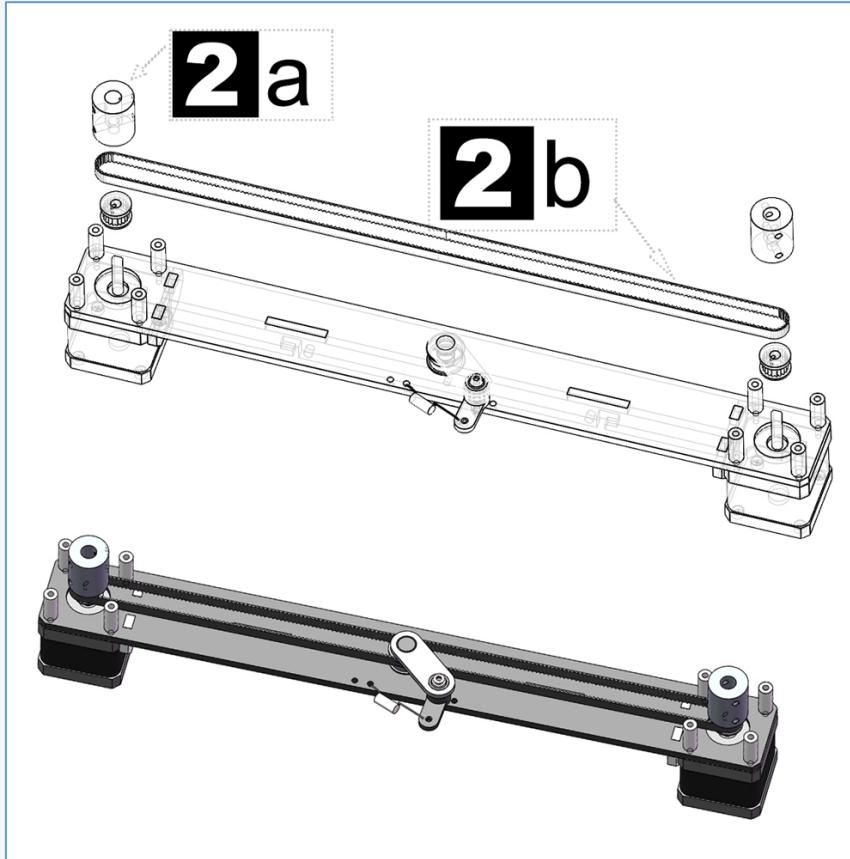
1

First step frame



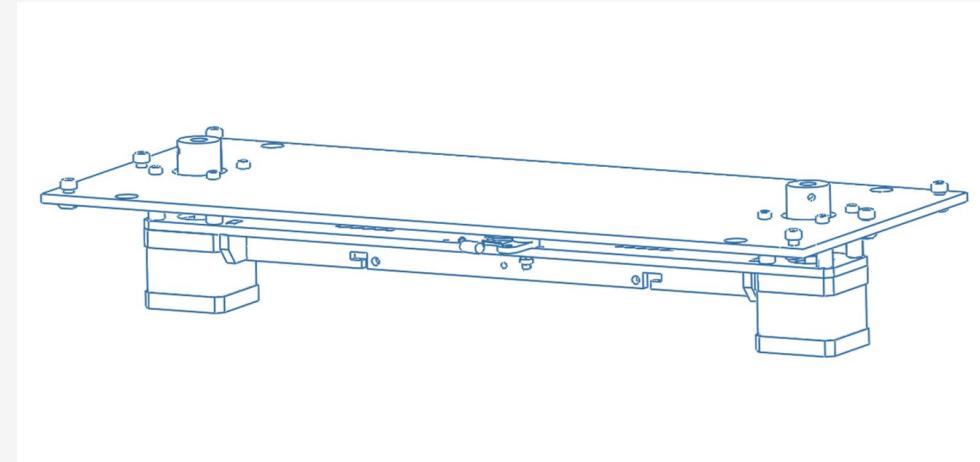
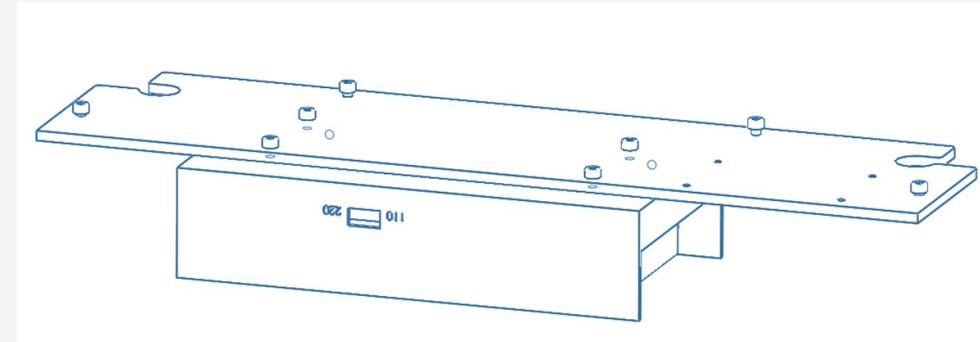
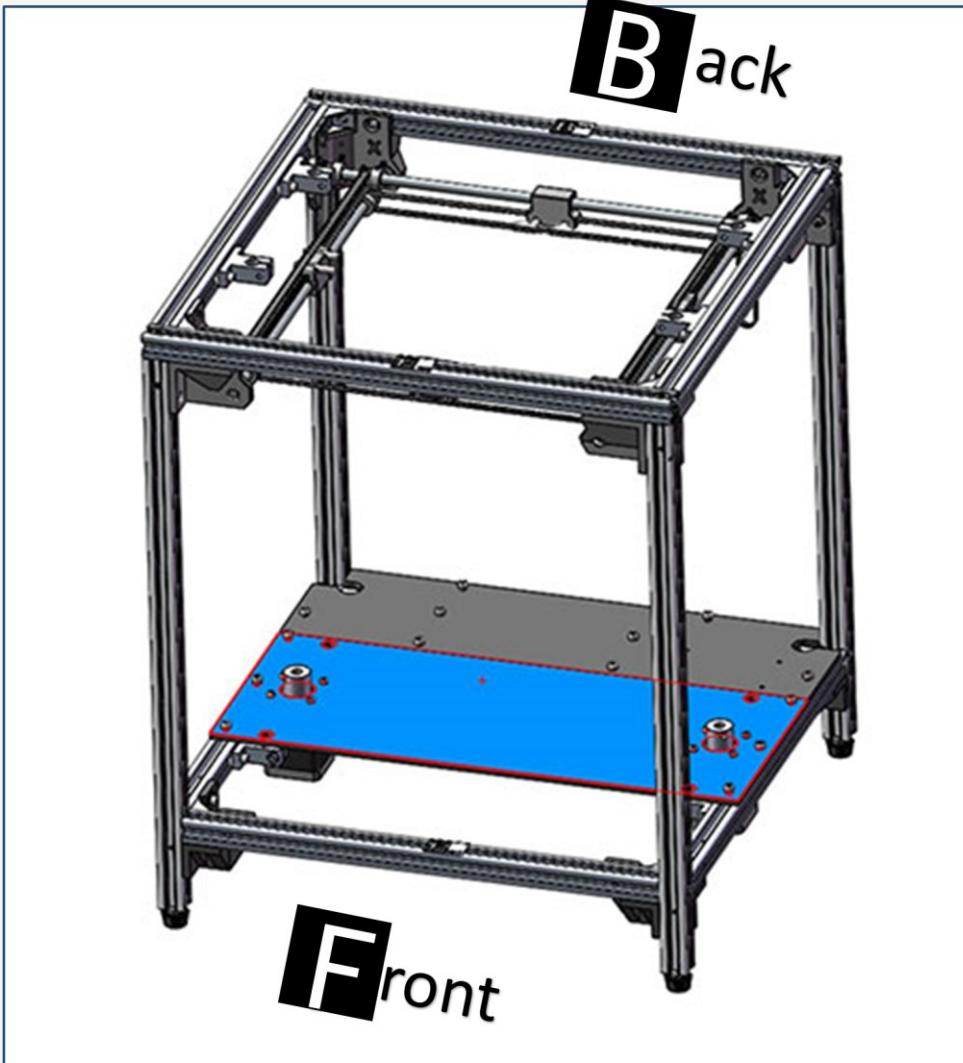
Step 2 Hot bed Z axis

2



Step 2 Hot bed Z axis

2

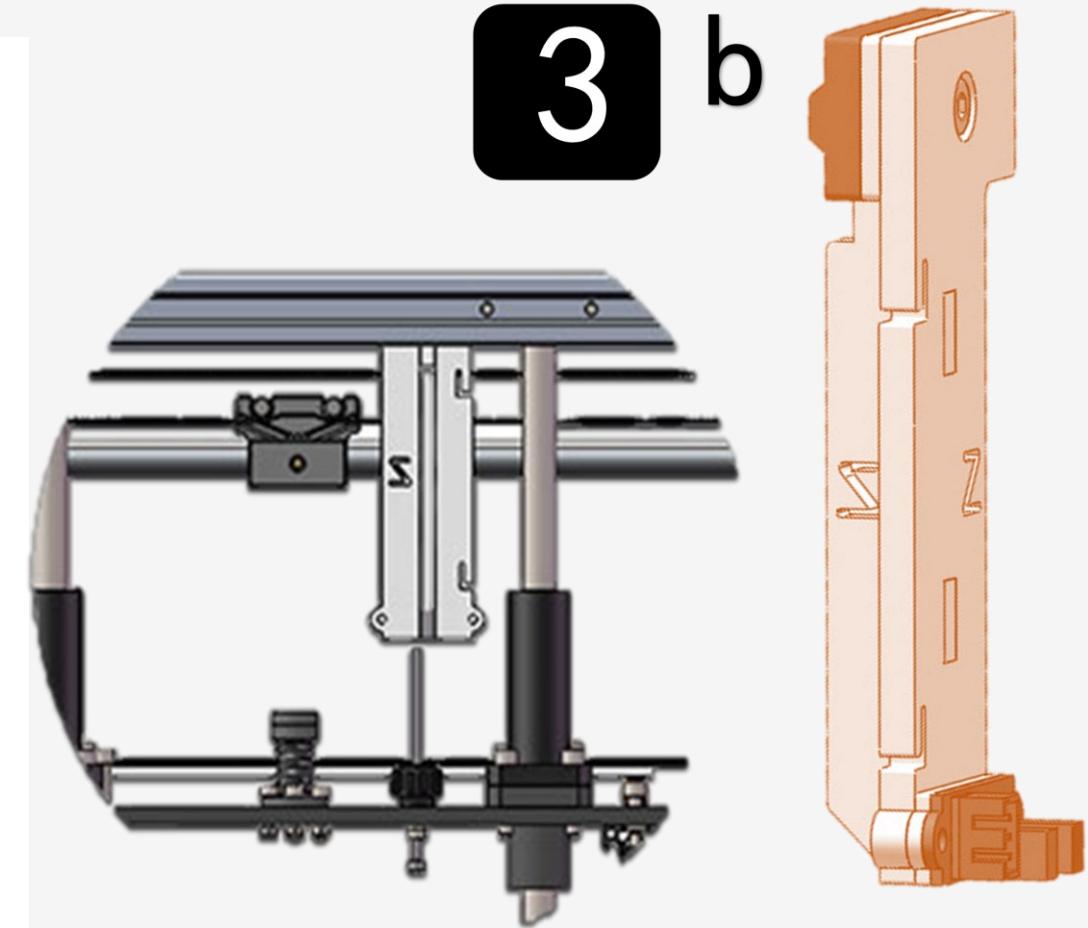


Step 2 Hot bed Z axis

2



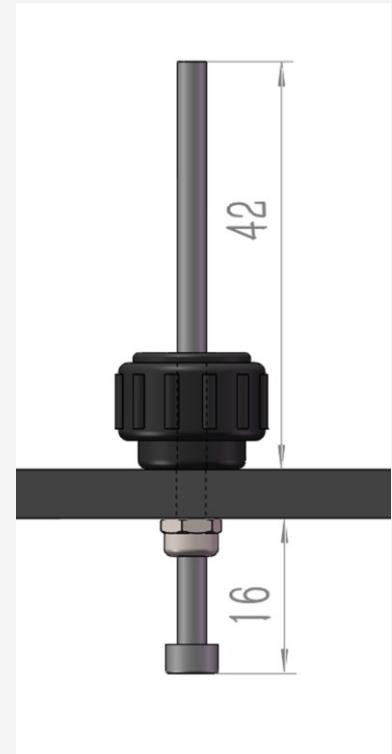
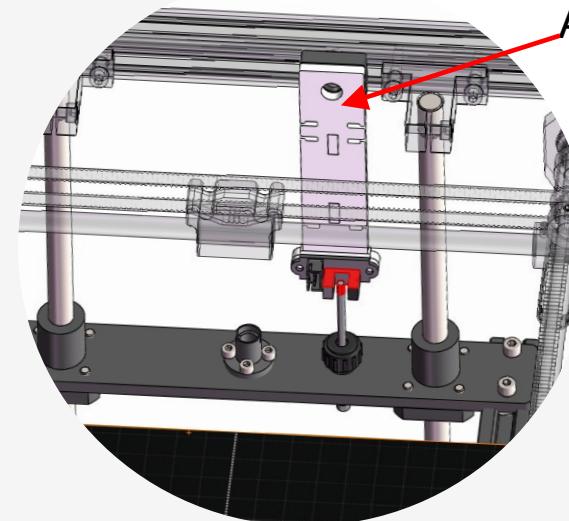
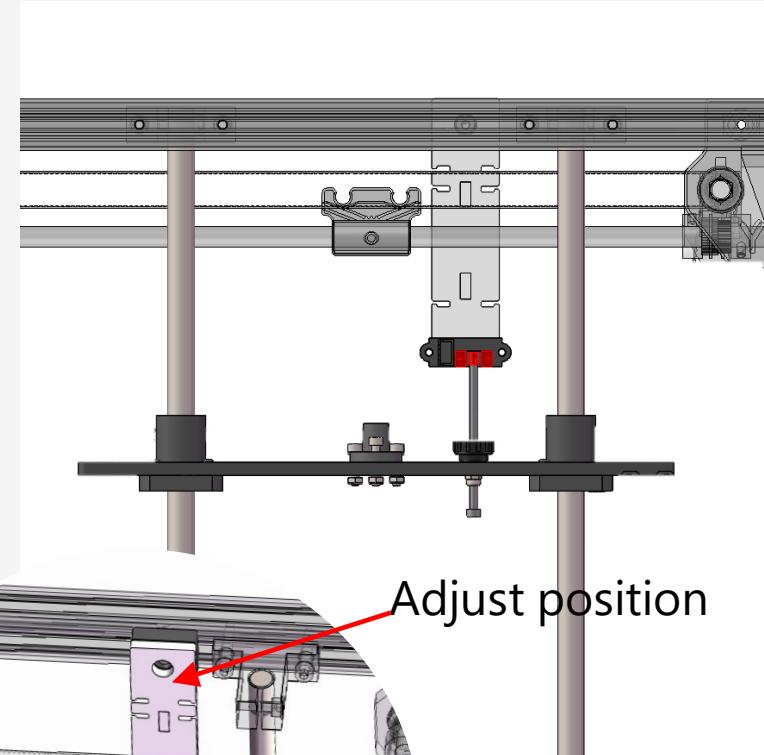
3 b



Step 2 Hot bed Z axis

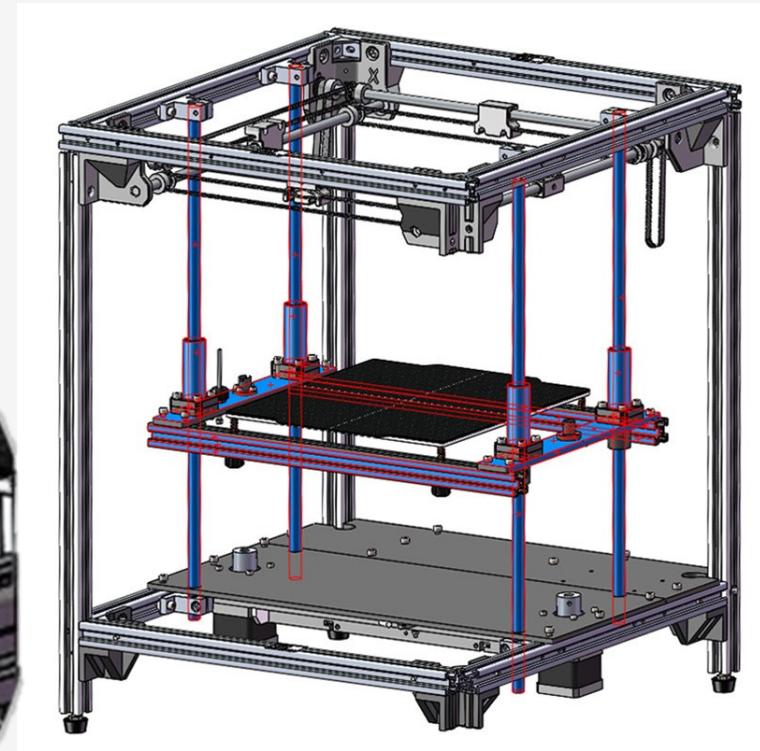
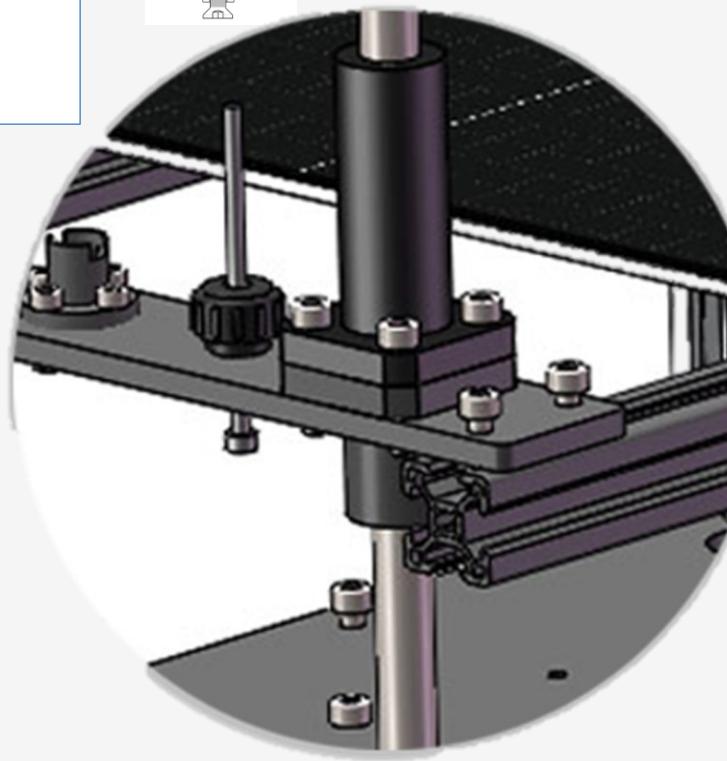
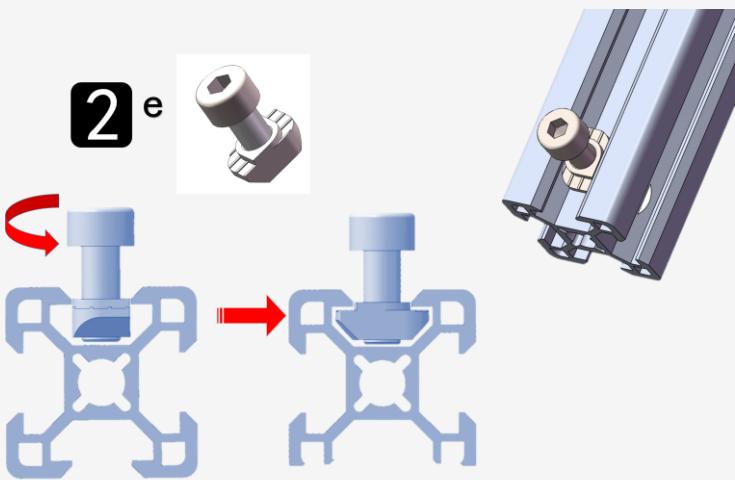
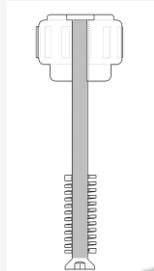
2

sliding up and down smoothly



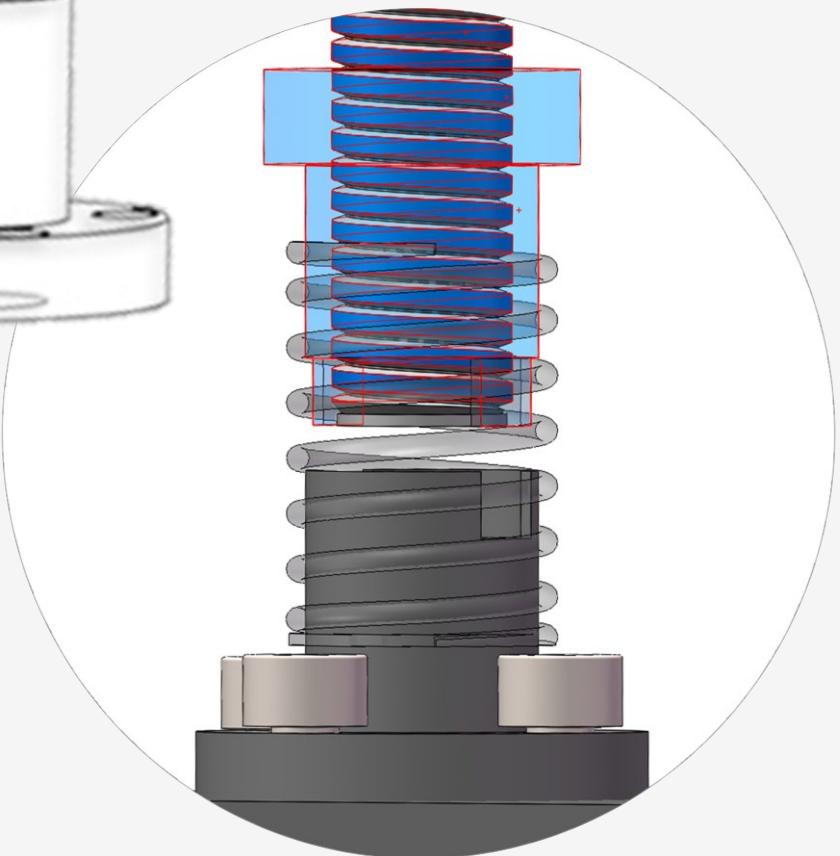
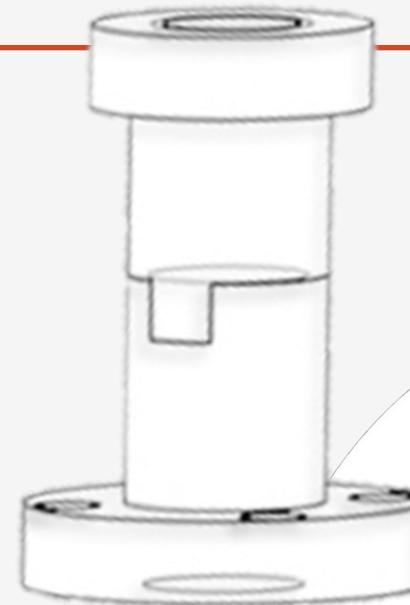
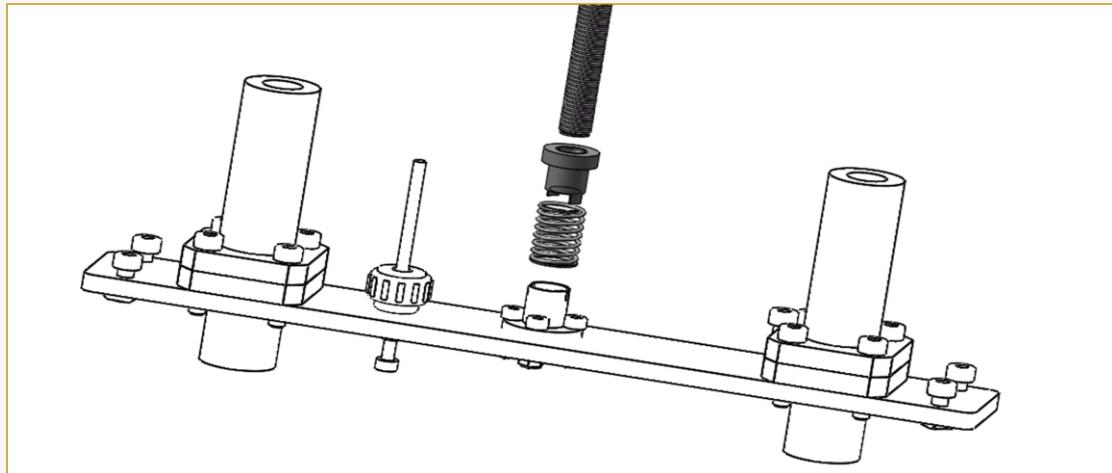
Step 2 Hot bed Z axis

2



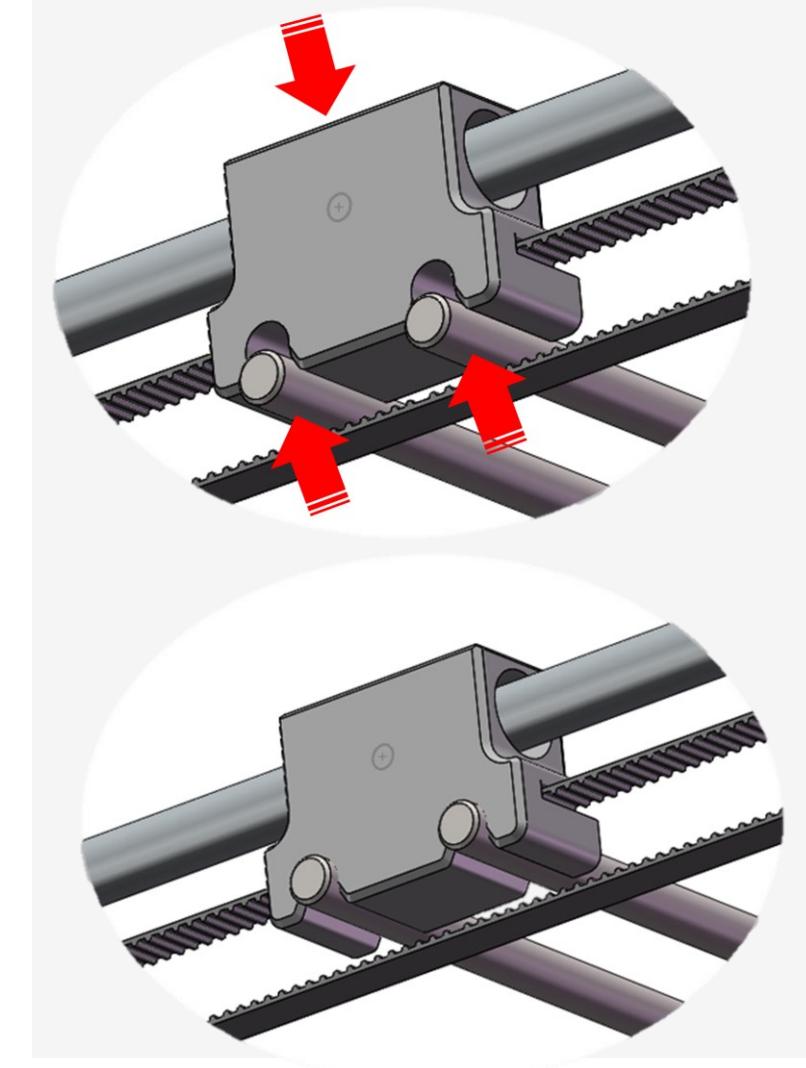
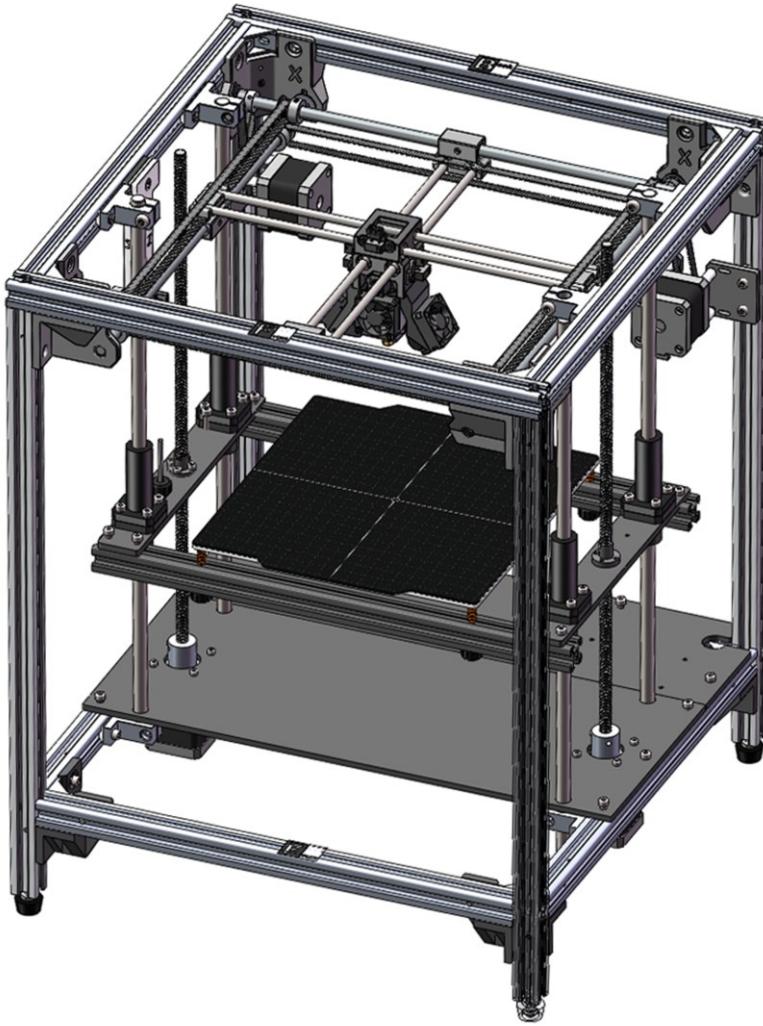
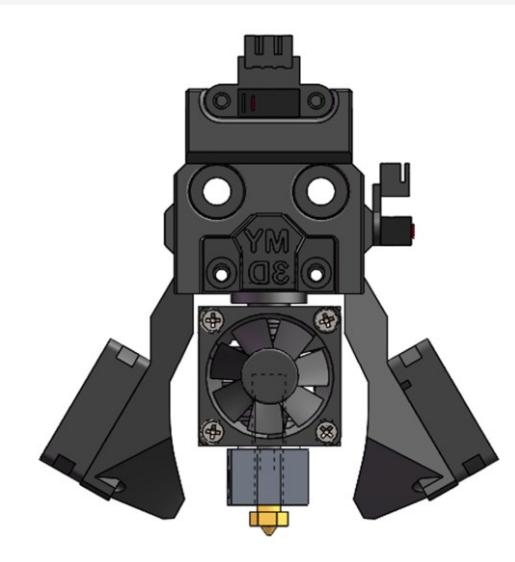
Step 2 Hot bed Z axis

2



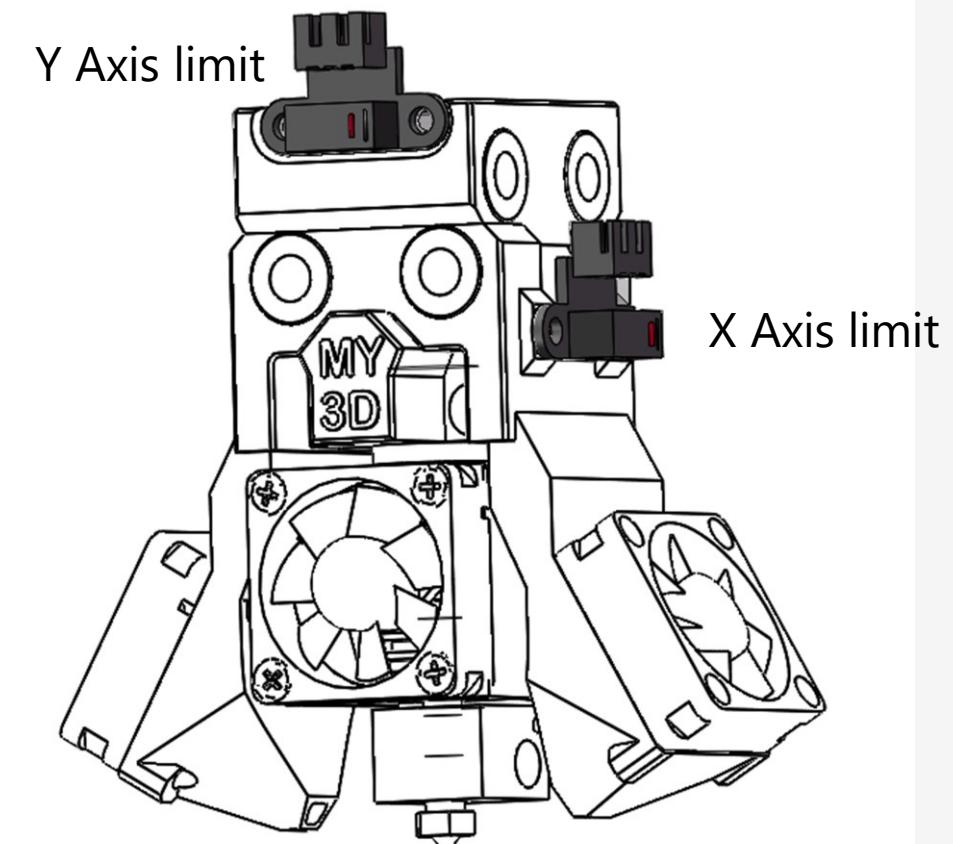
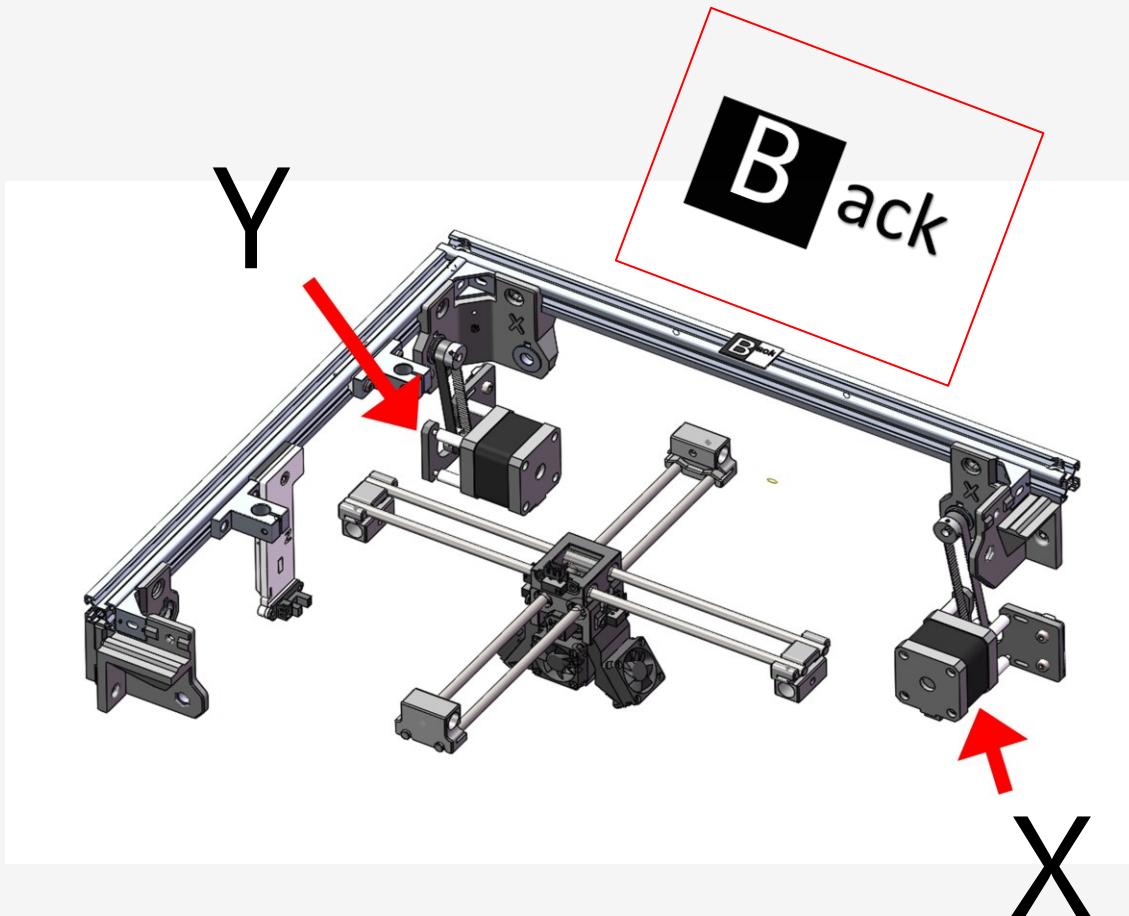
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Step 3



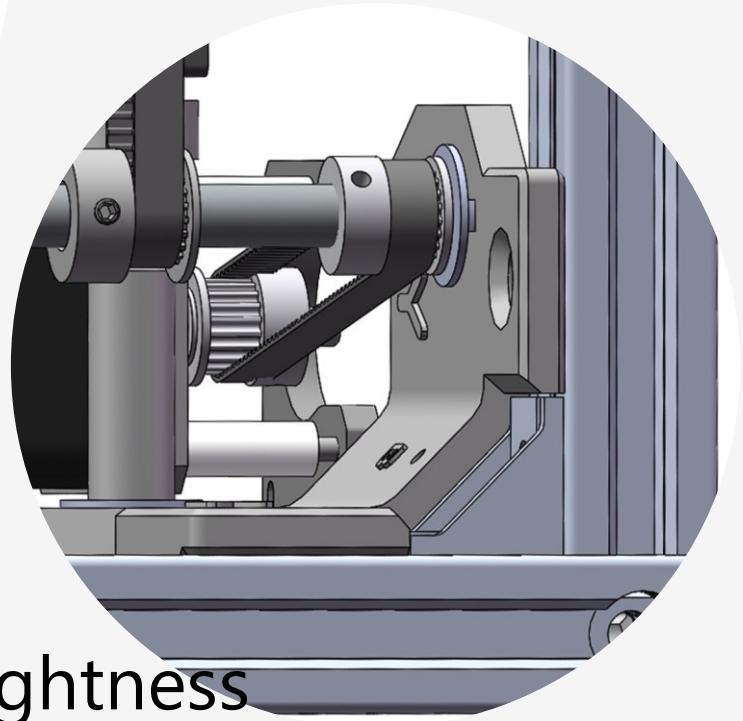
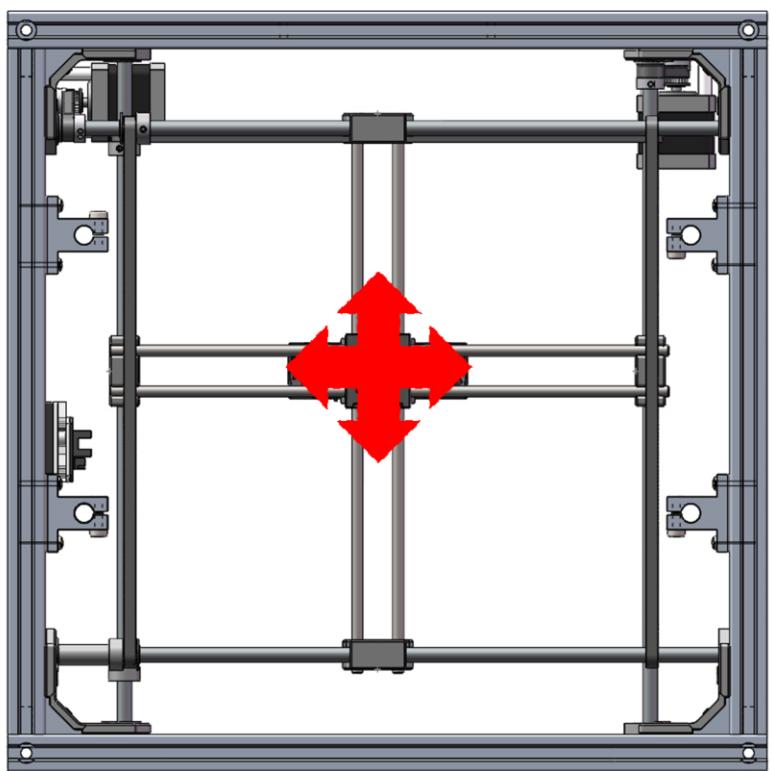
3

Step 3



3

Step 3



Parallel belts on both sides have the same tightness

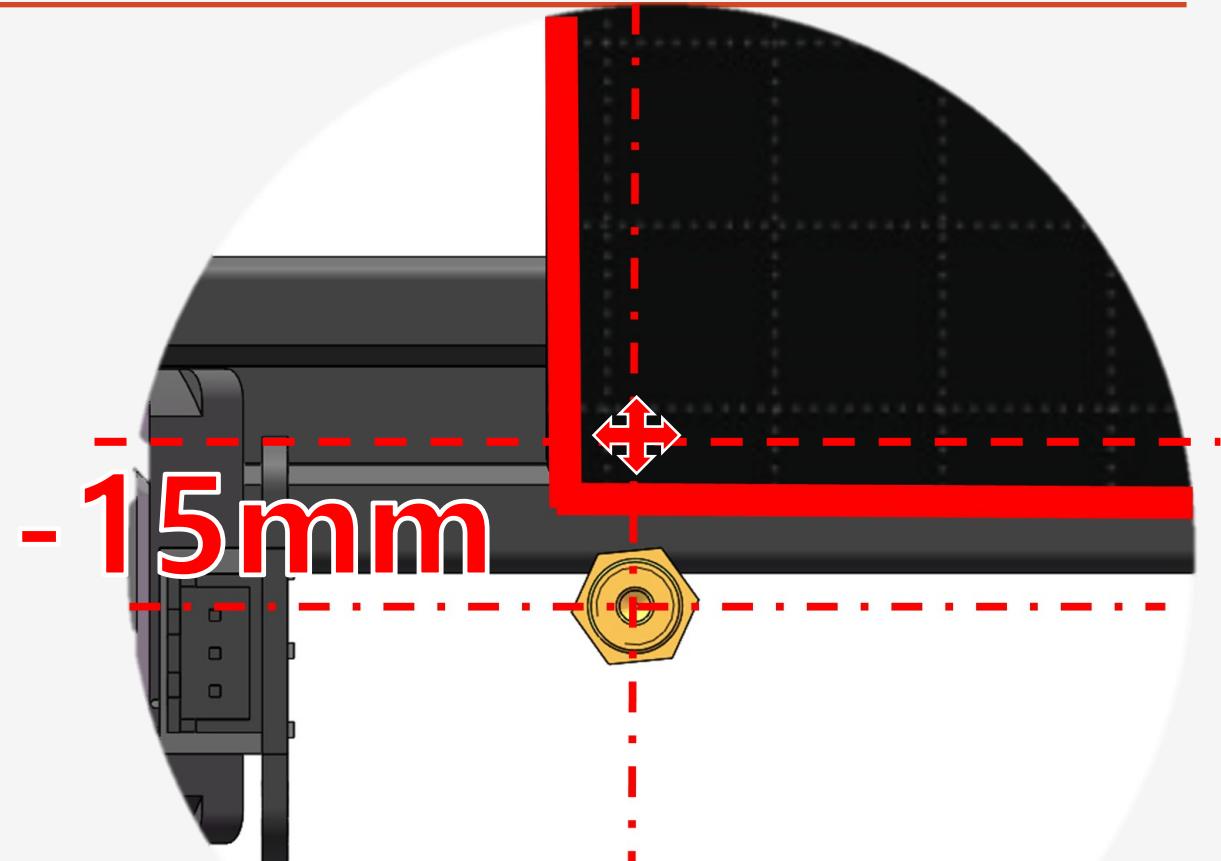
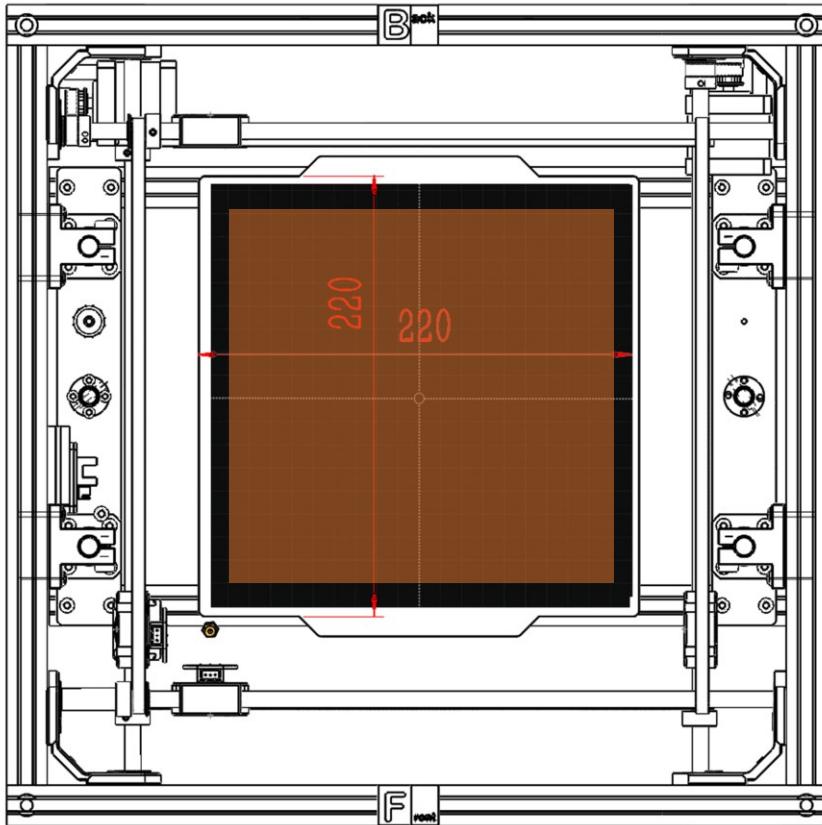
3

Step 3

Actual position of nozzle

Magnet hot bed size: 220*220mm

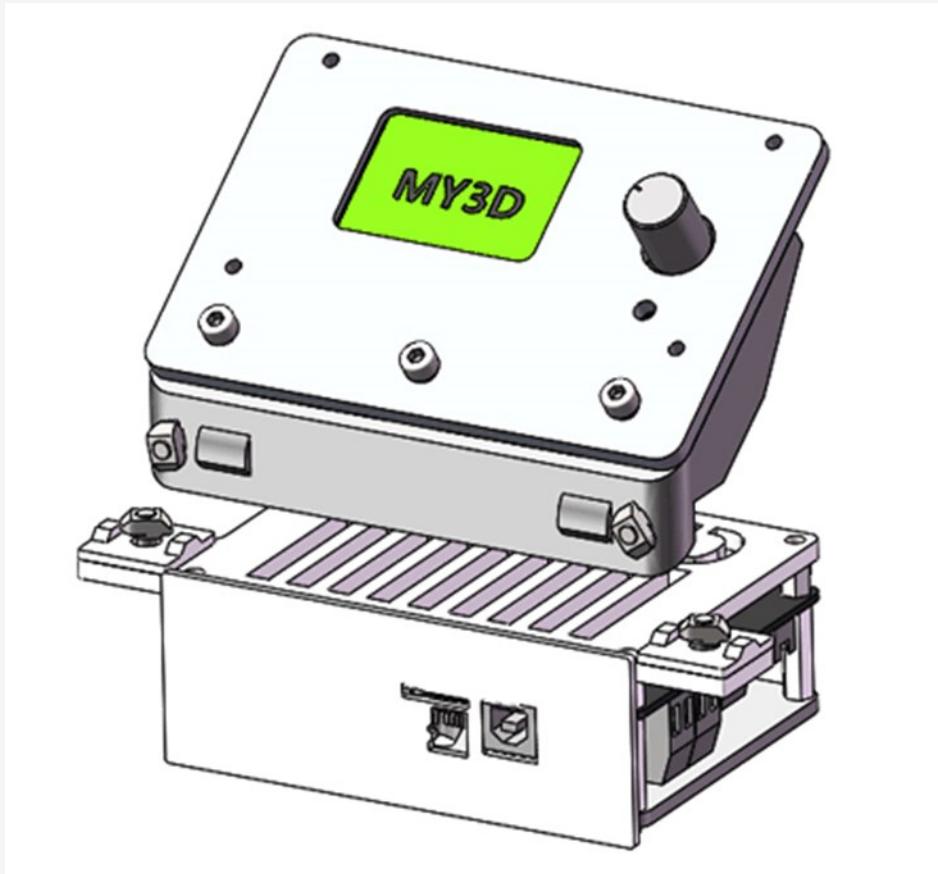
Actual printable size: **210*210mm**



The nozzle is outside the hot bed at home
Nozzle heating to prevent burning hot bed stickers
It is convenient to clean and replace the heating head.

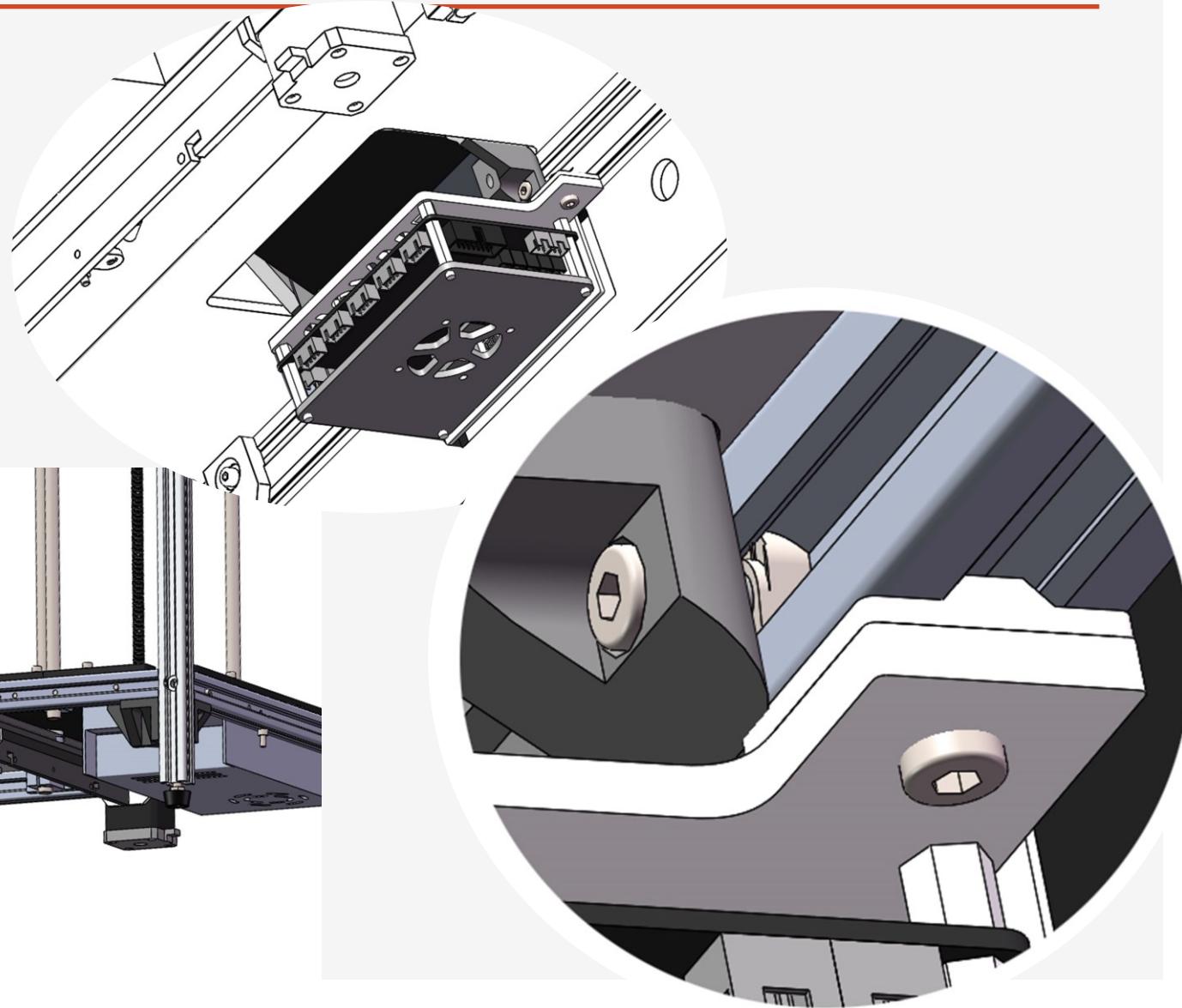
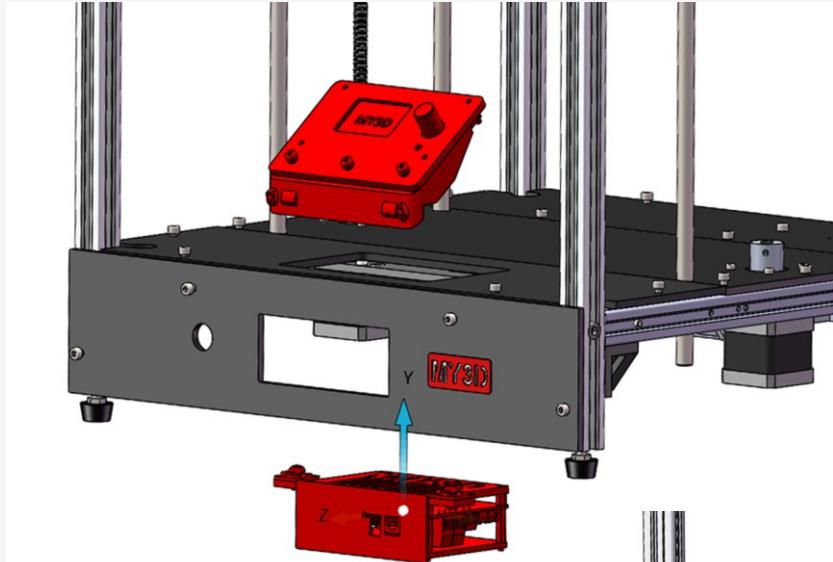
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Step 3



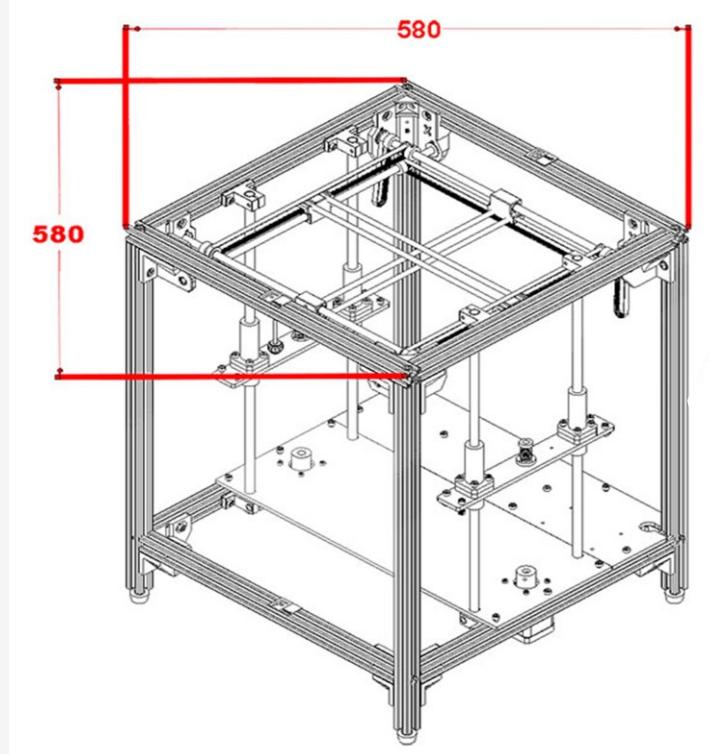
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Step 3



Q&A

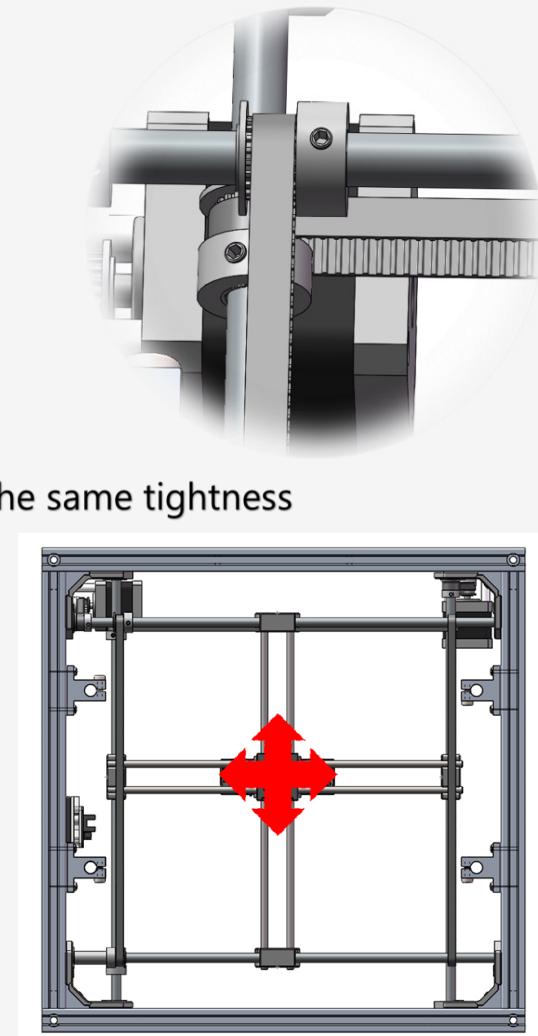
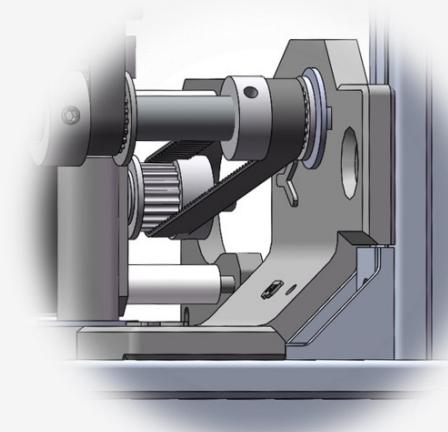
Frame adjustment



Measure diagonal distance: keep equal
Adjust the four-corner screws,



Parallel belts on both sides have the same tightness

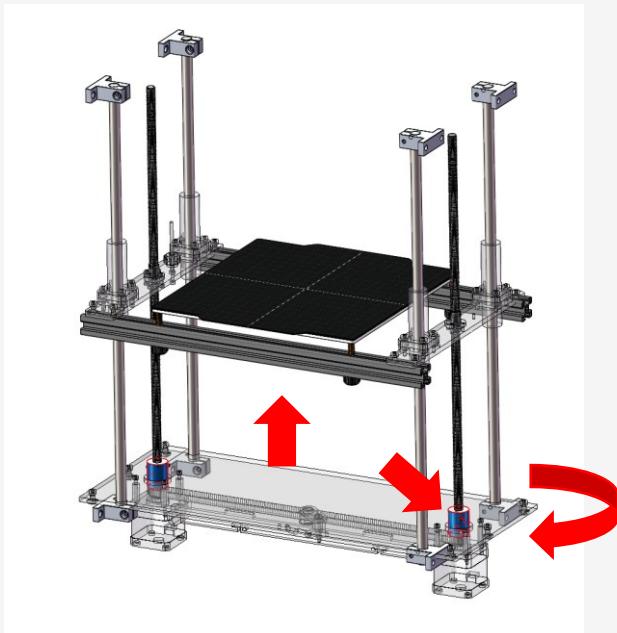


Q&A

Use for the first time

Need to manually adjust the height of the hot bed,
20mm away from the bottom plate

Because after leveling and the home button, in order to protect the nozzle,
the Z axis will run in the opposite direction 20MM first



UP 20MM



Q&A FOR Firmware Refresh TF card Upgrade

- There are 2 firmware files: **lite_cfg** **mkslite.bin**

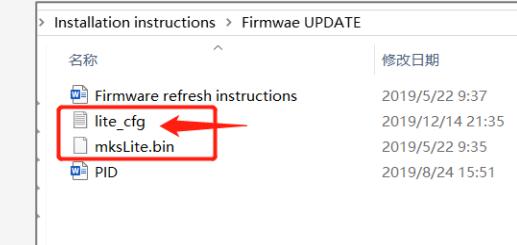
The **lite_cfg** file is in text format, can be modified, and some settings of the 3D printer can be changed, such as stepping motor step value, XYZ movement direction, PID temperature control setting, WIFI, etc.

Upgrade method:

- Copy the two modified files into the TF card
- Insert TF card into the 3D printer.
- Turn on the power of the 3D printer and it will automatically upgrade.

Remarks:

- File name cannot be modified when saving
- Needs to be save with TF card in the first-level directory.
- TF card files can only be updated once.
- After the update, the files in the TF card are automatically invalid (can be deleted).
- Need to update again. Copy the 2 files **lite_cfg** **mkslite.bin** to the TF card again, and do it again.



```
# Set the boundaries for probing (where the probe can reach).
>LEFT_PROBE_BED_POSITION 30
>RIGHT_PROBE_BED_POSITION 180
>FRONT_PROBE_BED_POSITION 30
>BACK_PROBE_BED_POSITION 180
>MESH_INSET 30 # Mesh inset margin on print area for MESH_BED_LEVELING

# Delta Settings
>DELTA_SEGMENTS_PER_SECOND 40 #--default
>DELTA_DIAGONAL_ROD 346.75 #Center-to-center distance of the holes in the diagonal push rod:
>DELTA_SMOOTH_ROD_OFFSET 211.5 #Horizontal offset from middle of printer to smooth rod center.
>DELTA_UNIVERSAL_OFFSET 28 #Horizontal offset of the universal joints on the end effector.
>DELTA_CARRIAGE_OFFSET 14.5 #Horizontal offset of the universal joints on the carriages.
>DELTA_RADIUS 169 #Horizontal distance bridged by diagonal push rods when effect.
>DELTA_HEIGHT 302 #height from z=0.00 to home position
>DELTA_PRINTABLE_RADIUS 125 #Print surface diameter/2 minus unreachable space (avoid collision)
>DELTA_CALIBRATION_RADIUS 100 #set the radius for the calibration probe points - max 0.8 * DELTA_RADIUS

# Wifi Settings
CFG_WIFI_MODE 0 #wifi mode(0:sta,1:ap)
CFG_WIFI_AP_NAME "china cloud service" #wifi name
CFG_WIFI_KEY_CODE "1234567890" #wifi password

#Cloud Settings
CFG_CLOUD_ENABLE 0 #cloud service enable(0:disable, 1:enable)
CFG_WIFI_CLOUD_HOST www.baizhongyun.cn #cloud server url
CFG_CLOUD_PORT 10086 #cloud server port

#end.
```



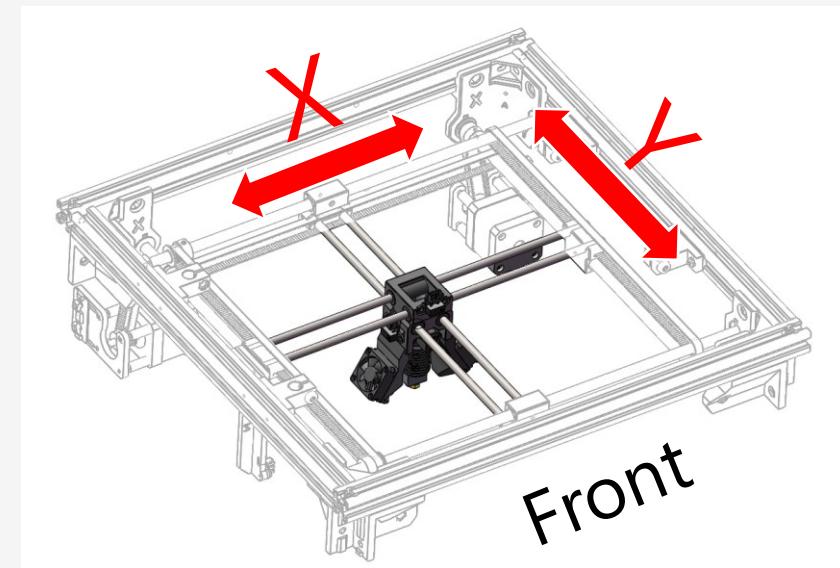
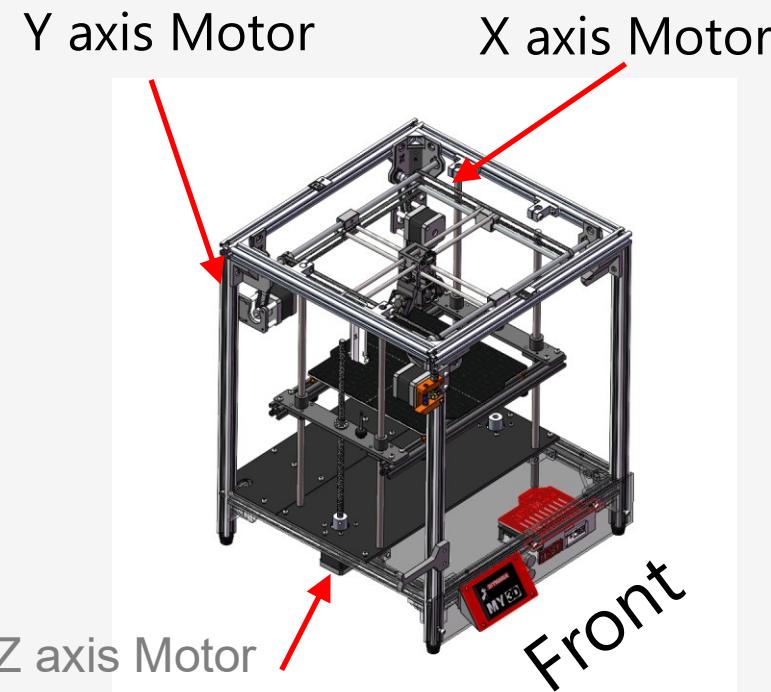
Download the latest firmware

<https://github.com/my3dltd/F1-B-V2-MKS>

Q&A Firmware Refresh X Y Z direction

Modify 0 or 1 to change the direction of movement

```
#Invert the stepper direction.  
>INVERT_X_DIR 1  
>INVERT_Y_DIR 1  
>INVERT_Z_DIR 0  
>INVERT_E0_DIR 0
```



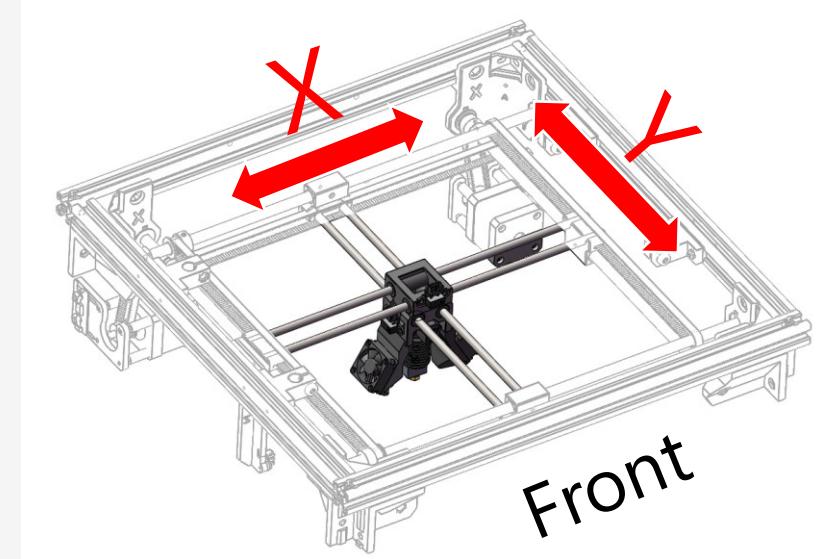
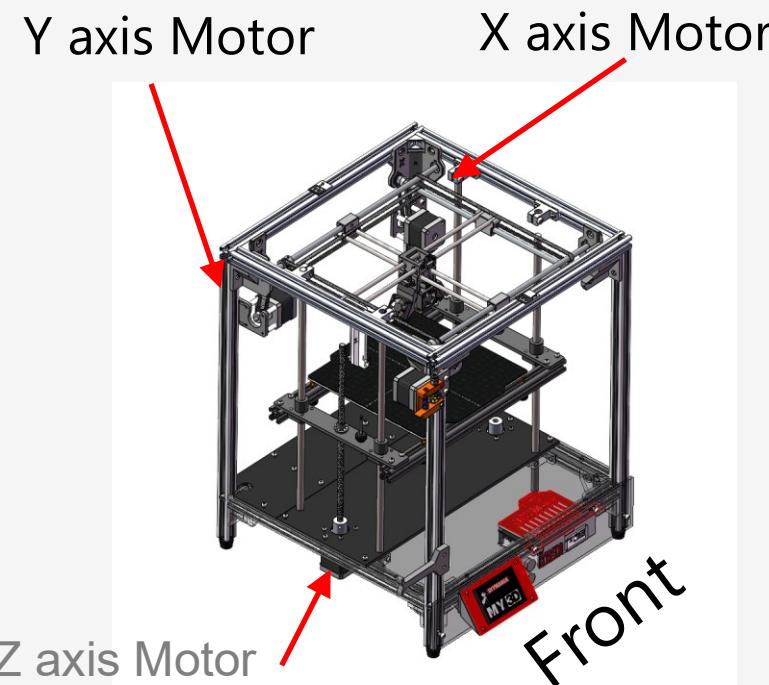
note:

For Z axis, when the home button is pressed, the direction of movement is reverse 20mm, and then the normal direction.

Q&A Firmware Refresh X Y Z direction

Modify 0 or 1 to change the direction of movement

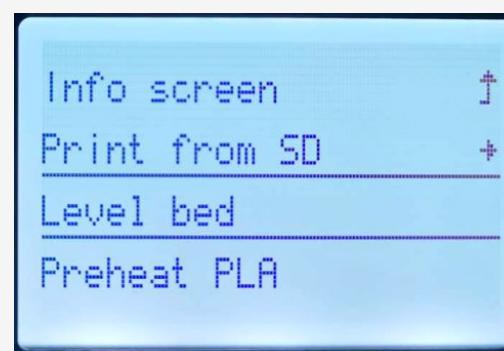
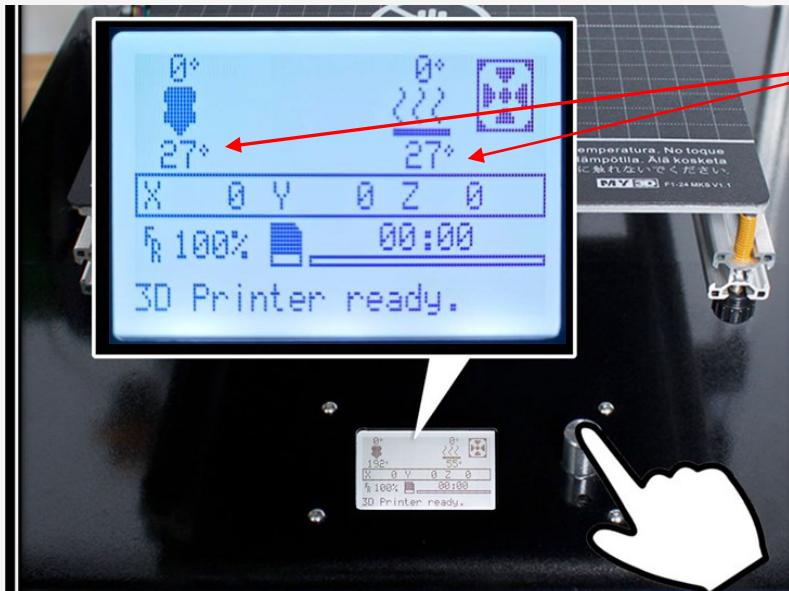
```
#Invert the stepper direction.  
>INVERT_X_DIR 1  
>INVERT_Y_DIR 1  
>INVERT_Z_DIR 0  
>INVERT_E0_DIR 0
```



note:

For Z axis, when the home button is pressed, the direction of movement is reverse 20mm, and then the normal direction.

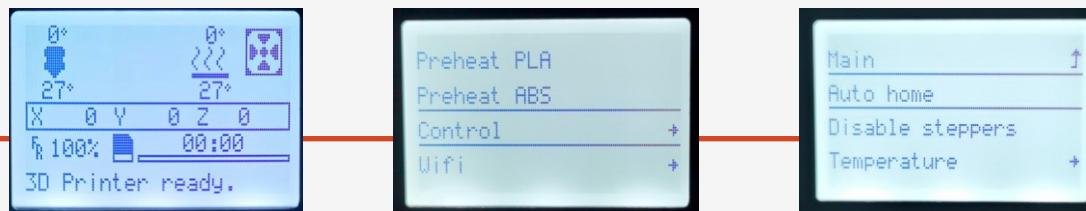
Q&A



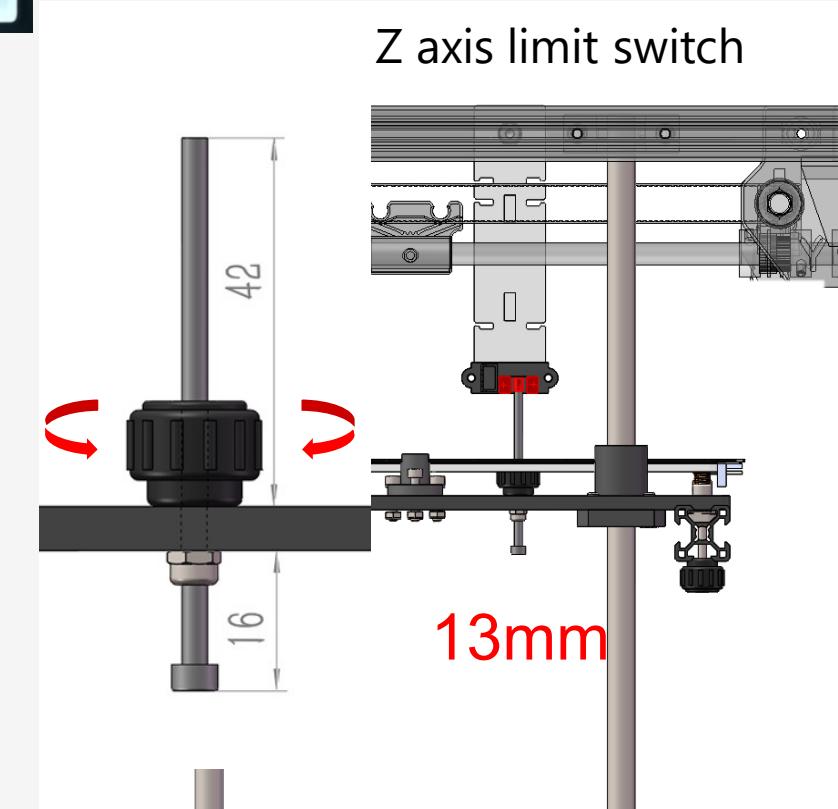
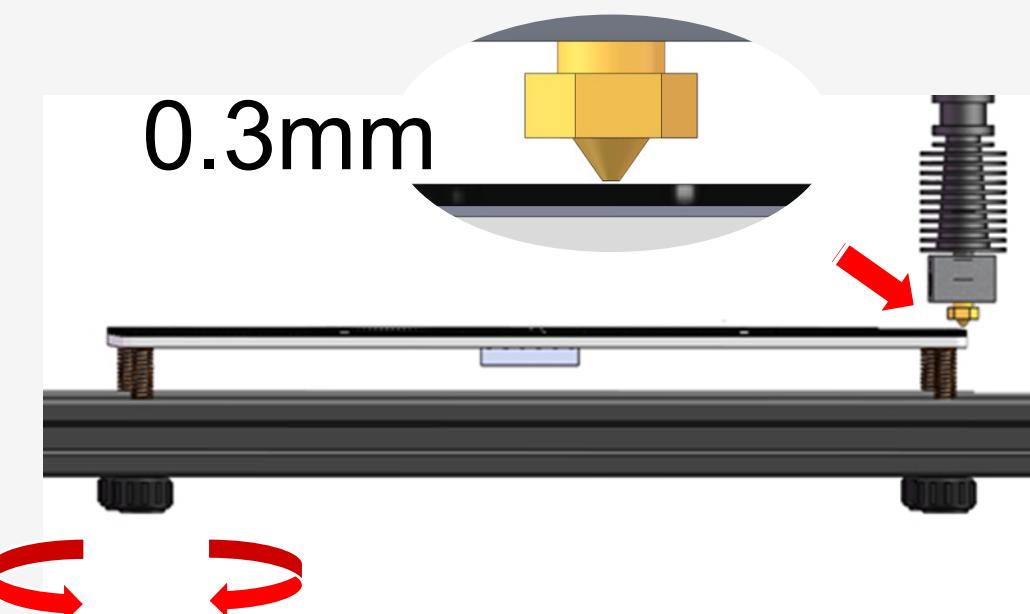
The temperature of the nozzle and the hot bed is measured.
If the temperature is abnormal, please check the connection.



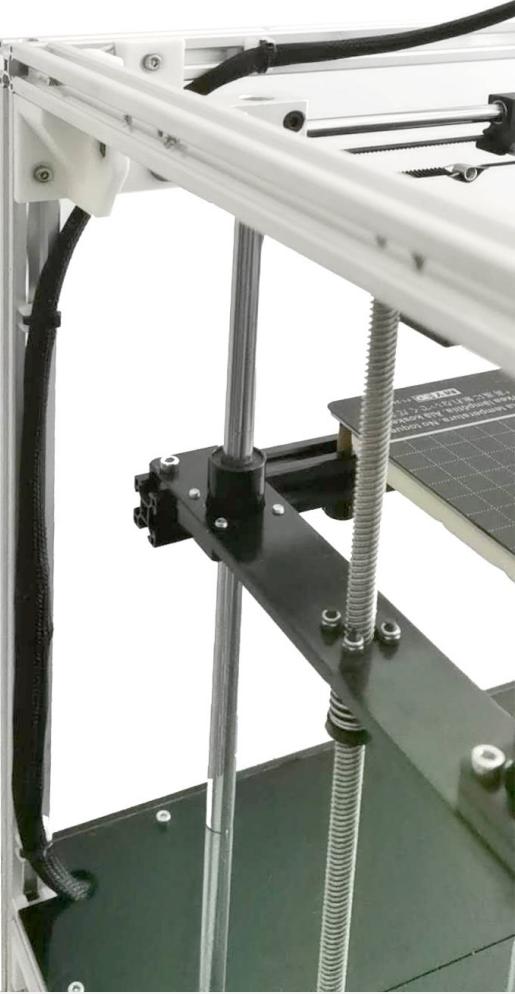
Q&A



First HOME: To adjust the approximate position,
The position of the nozzle is 0.3mm from the level of the hot bed,
If the nozzle is incorrectly away from the hot bed
Please adjust the Z axis limit switch according to the right picture



If using lattice glass (4mm thickness)
Need to adjust $16 + 1 - 4 = \text{13mm}$
soft magnetic sticker thickness is 1mm



Q&A

