

Assembly manual

for the frame of PNPv3

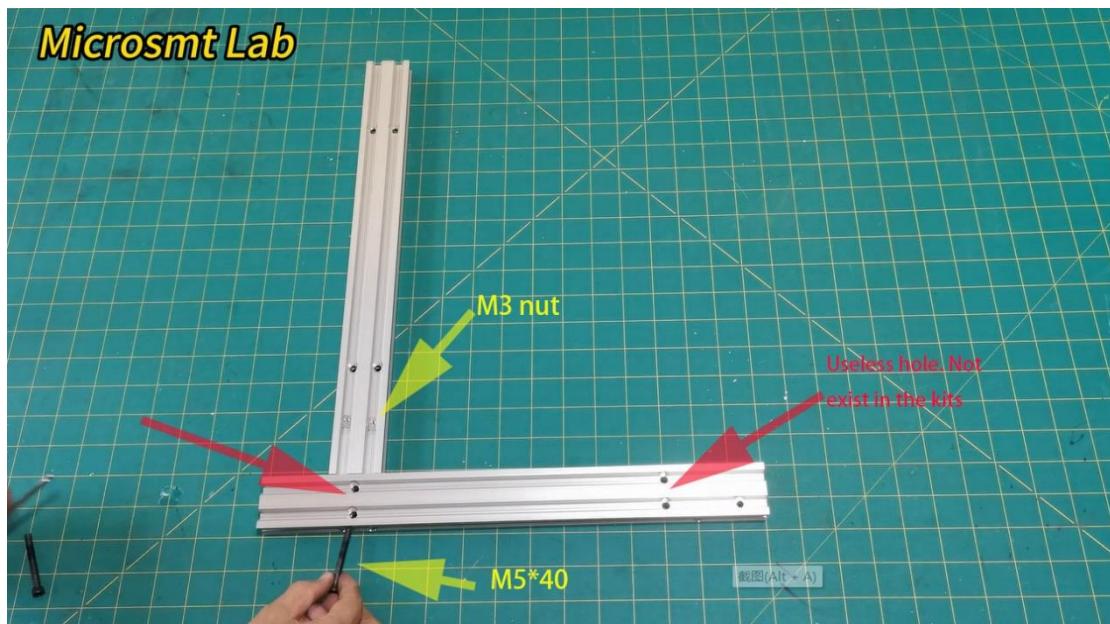
2024.12.26

Please also refer to the assembly demonstration video. Can be completed faster.

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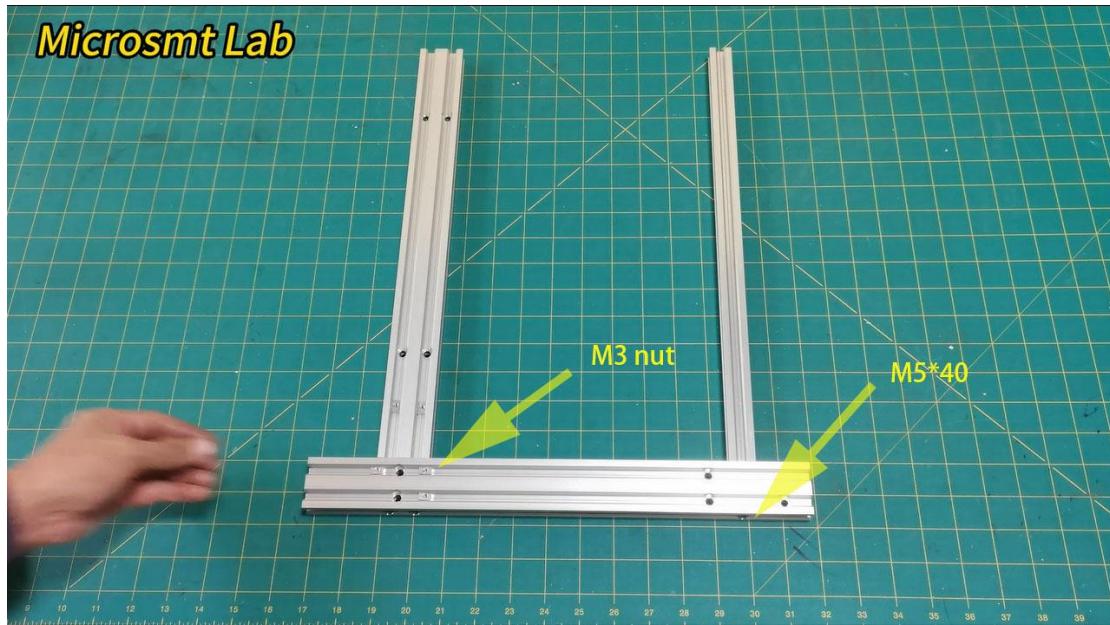
Step 1: Install 380mm 4020 aluminum profiles and 400mm 4020 aluminum profiles.

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Step 2: Install 400mm 2020 aluminum profiles.

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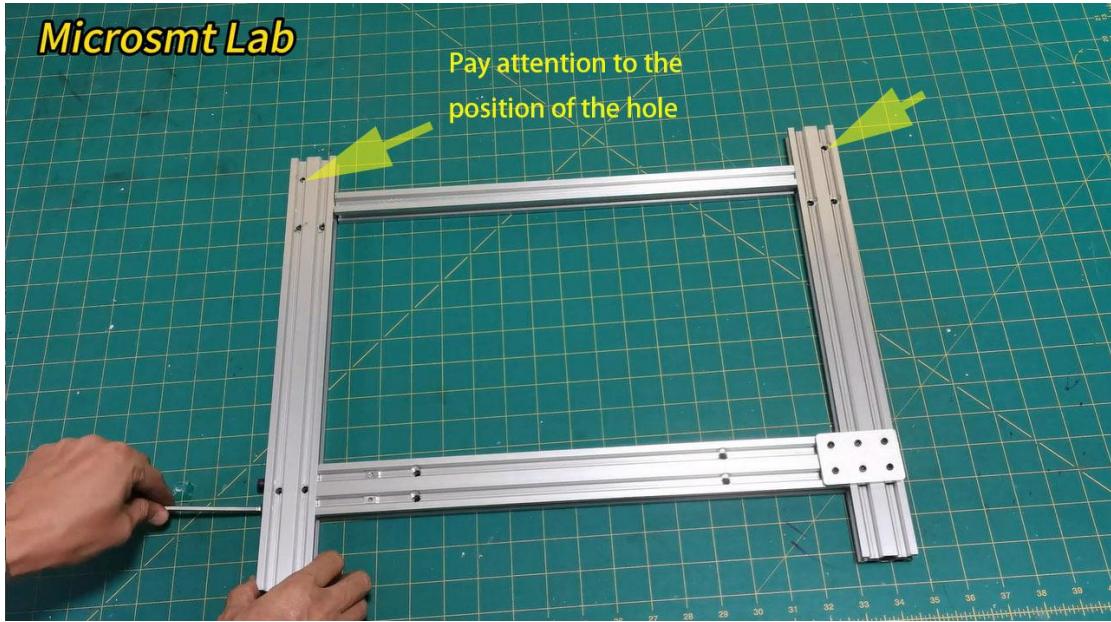
Step 3: Install B5 locking aluminum plate.

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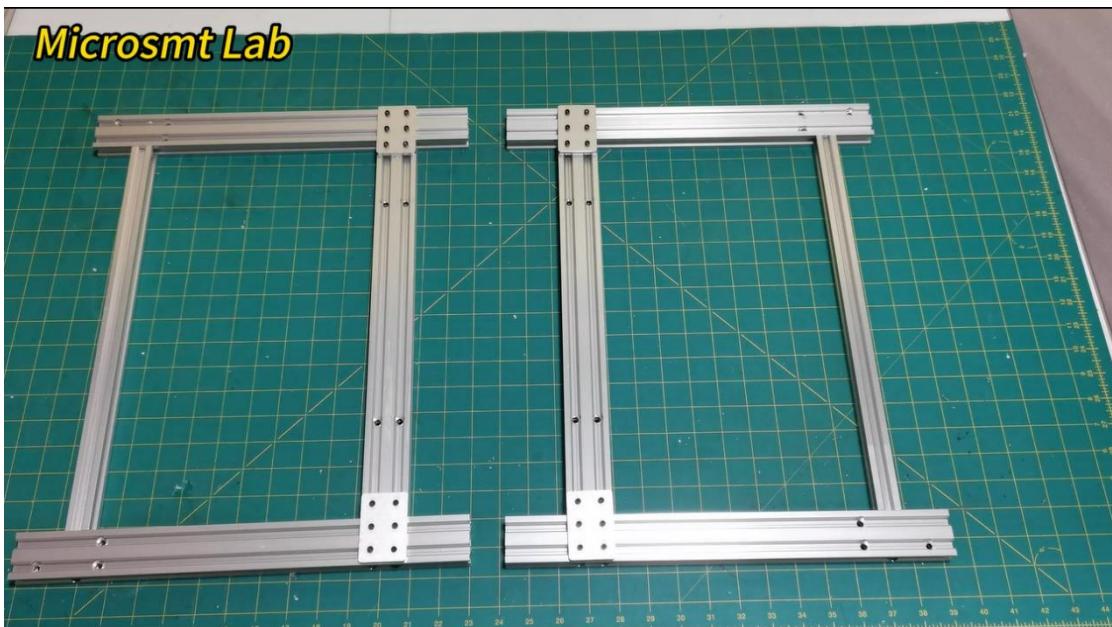


Step 4:

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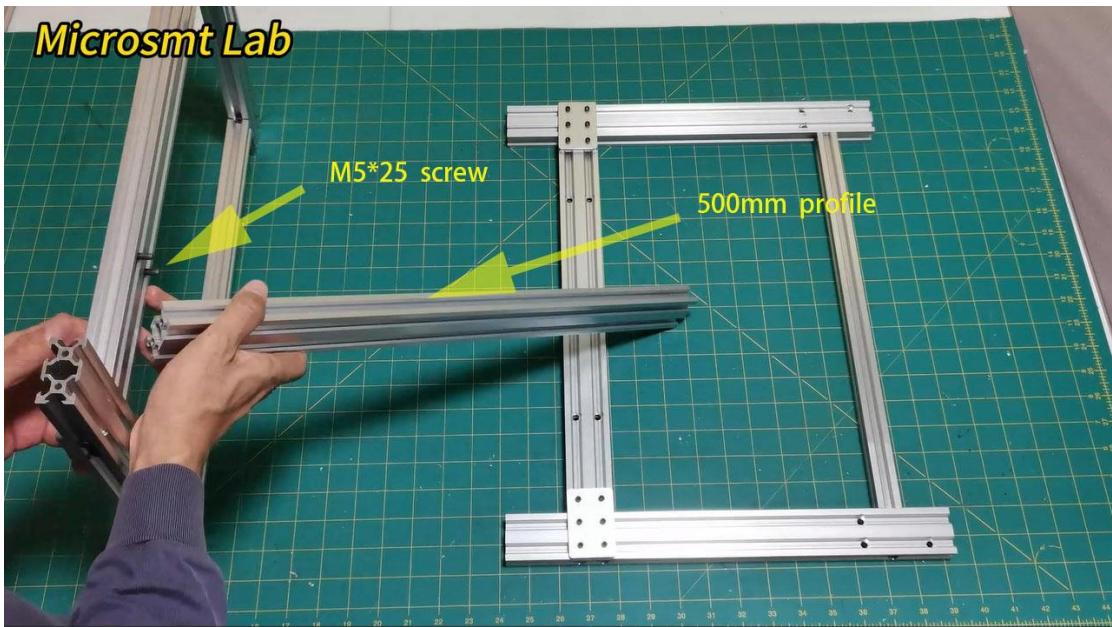


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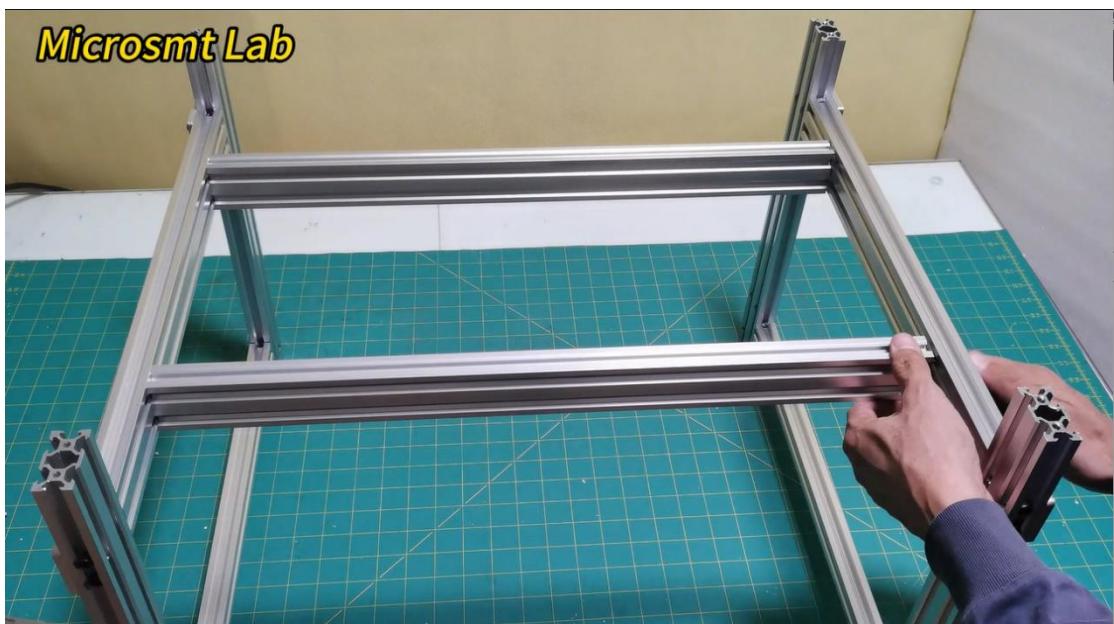


Step 5: Install 500mm 4020 aluminum profile.

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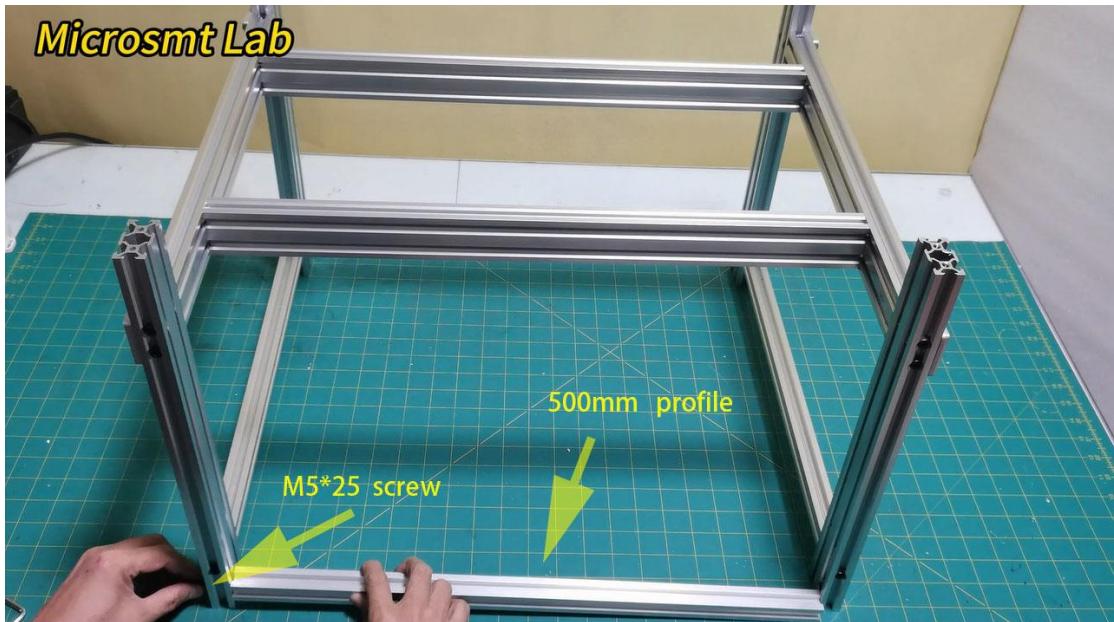


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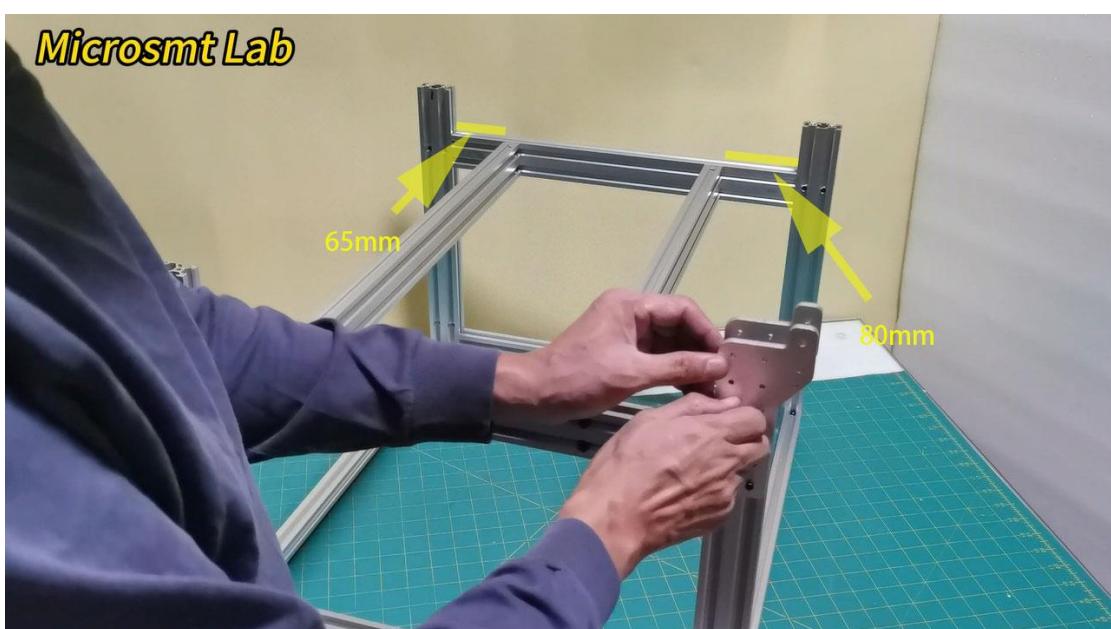
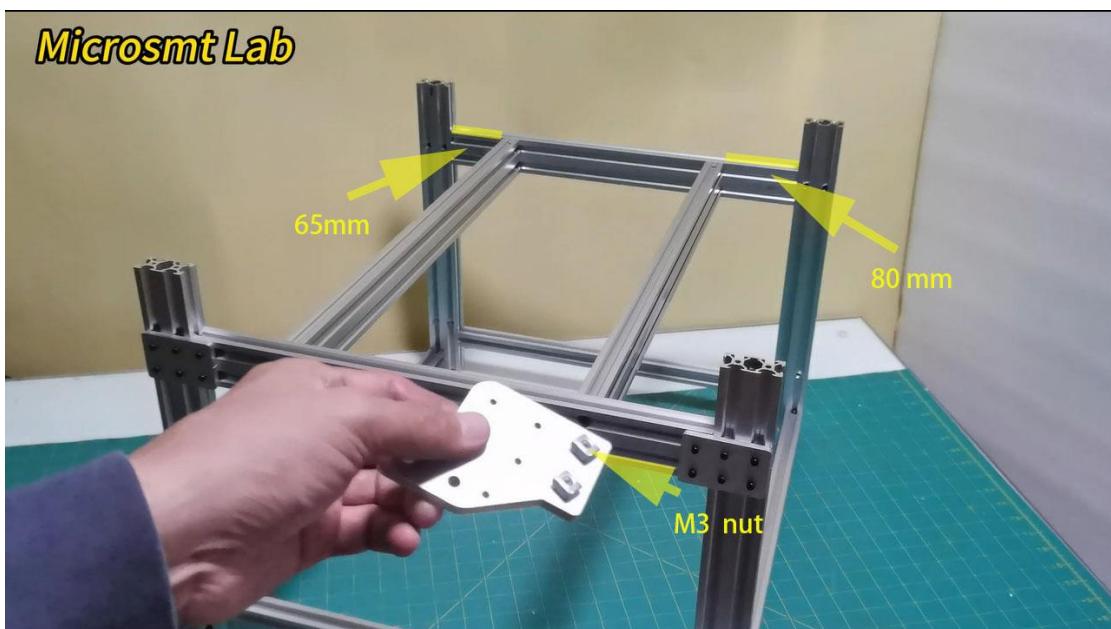


Step 6: Install 500mm 2020 aluminum profiles.

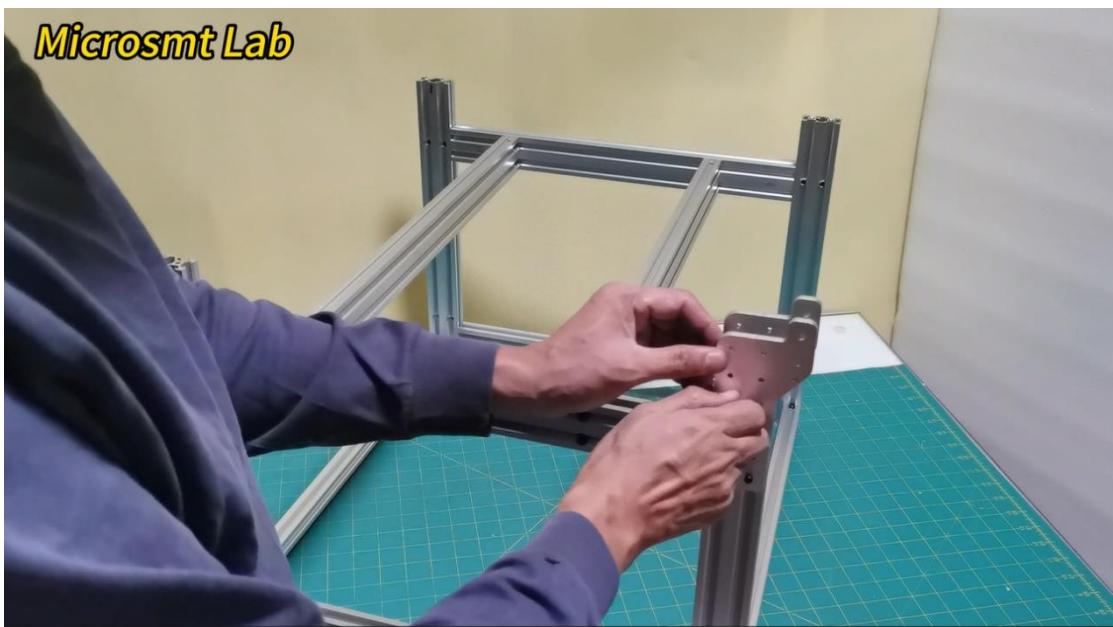
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Step 7: Install B2 locking aluminum plate.



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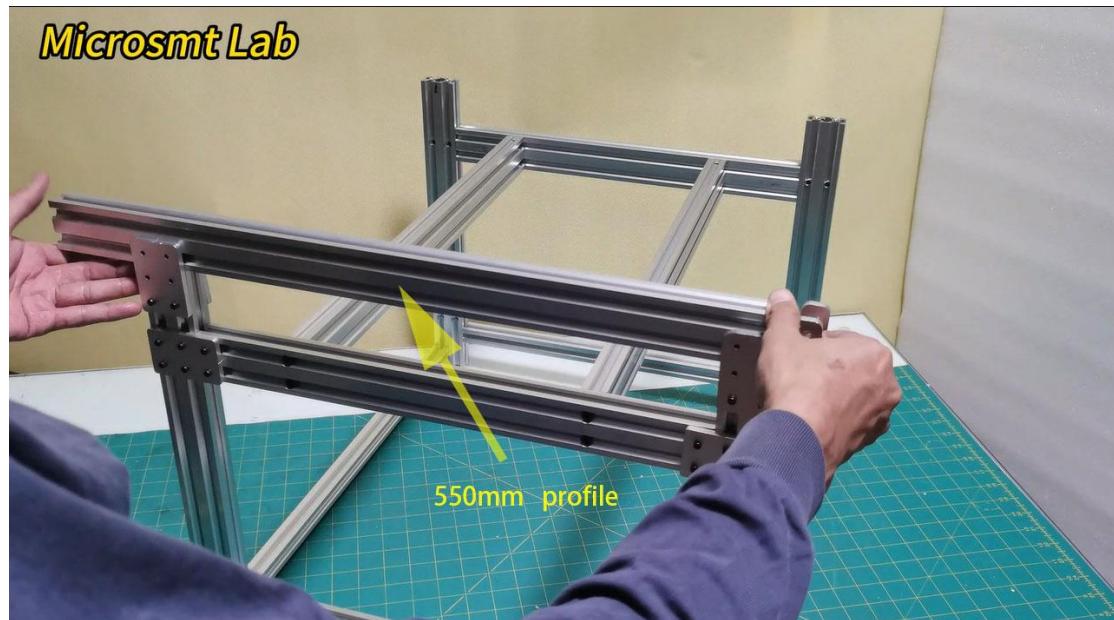


Step 8: Install B5 locking aluminum plate.

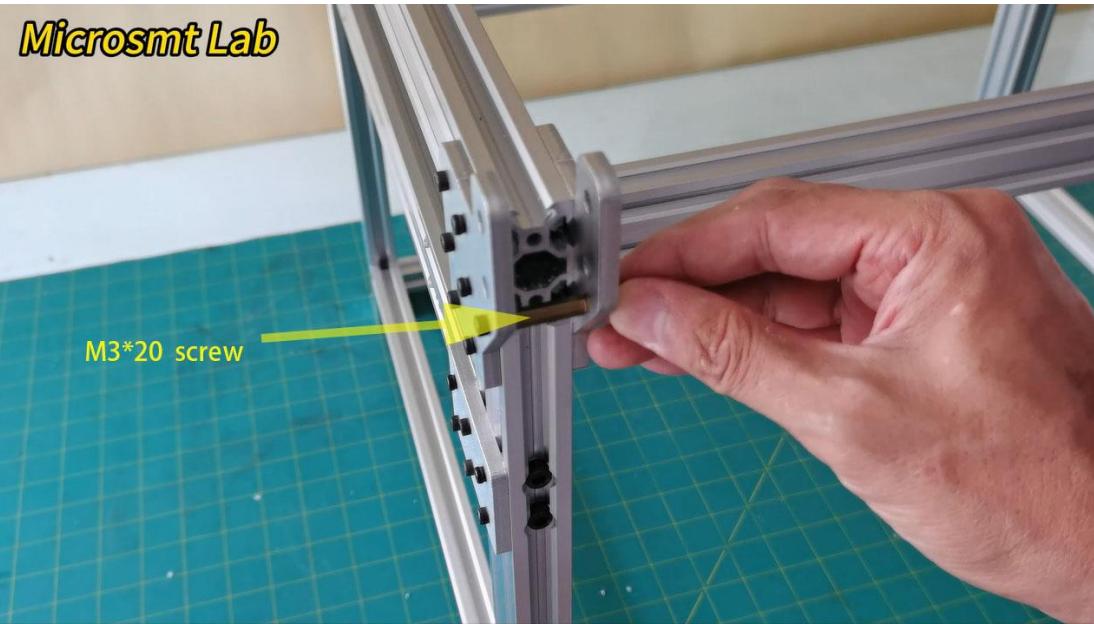
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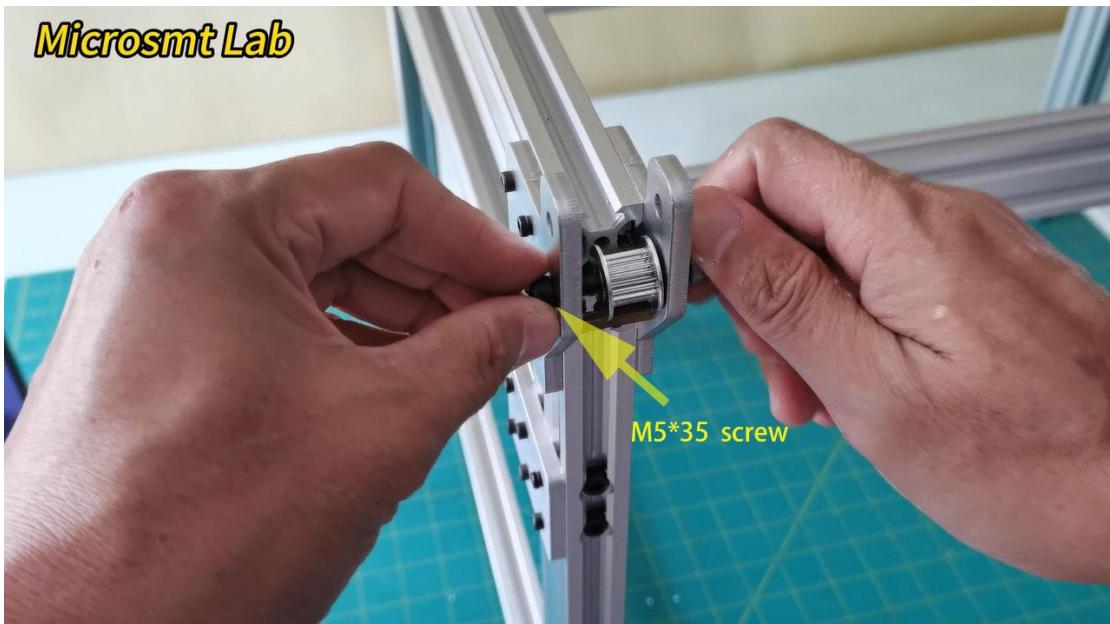
Step 9: Install 550mm 4020 aluminum profile.



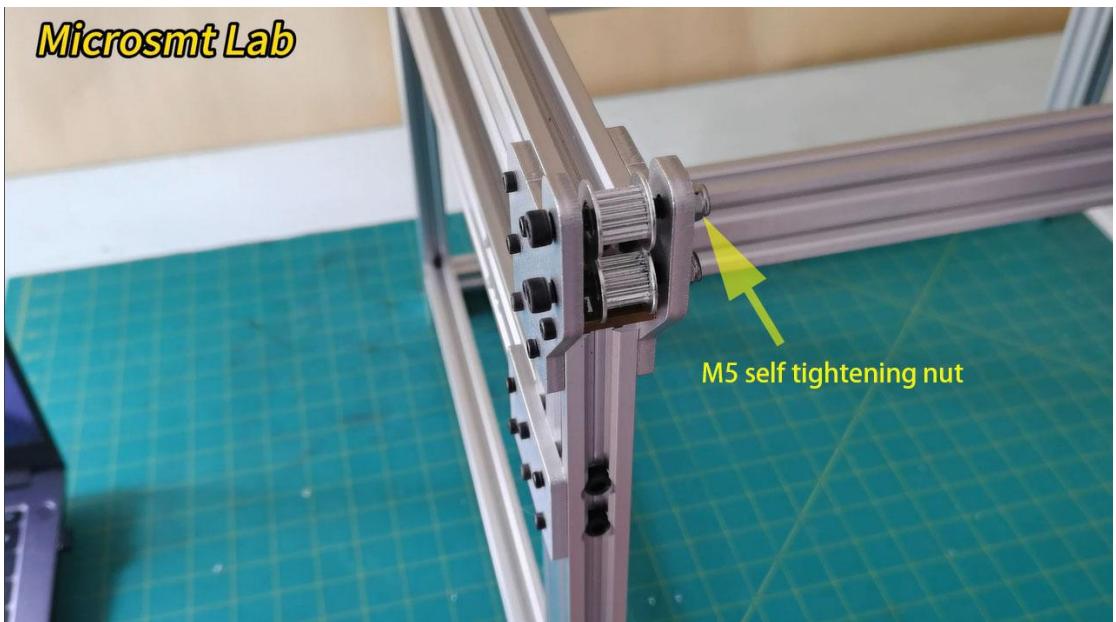
Step 10: Install M3 * 20 copper nut.



Step 10: Install 20T synchronous wheel.



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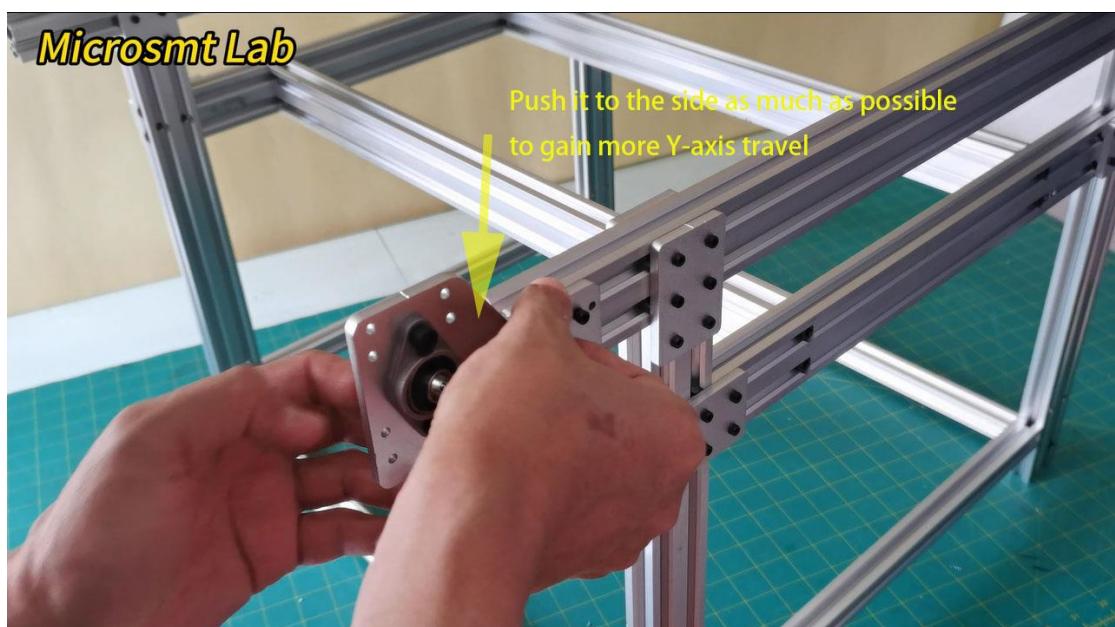
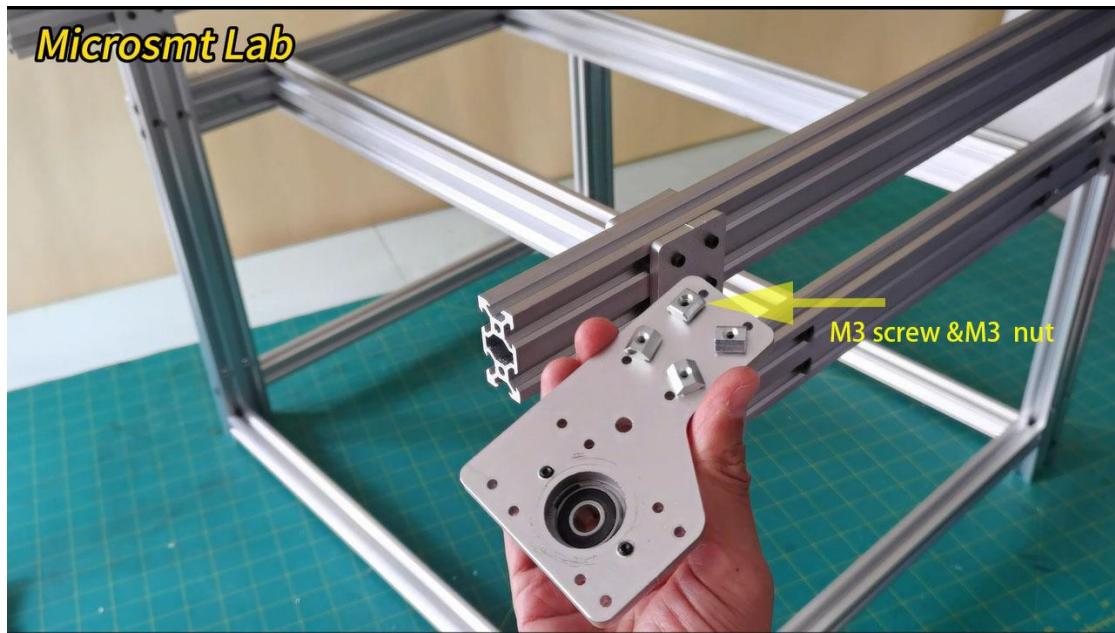


M5 self tightening nut

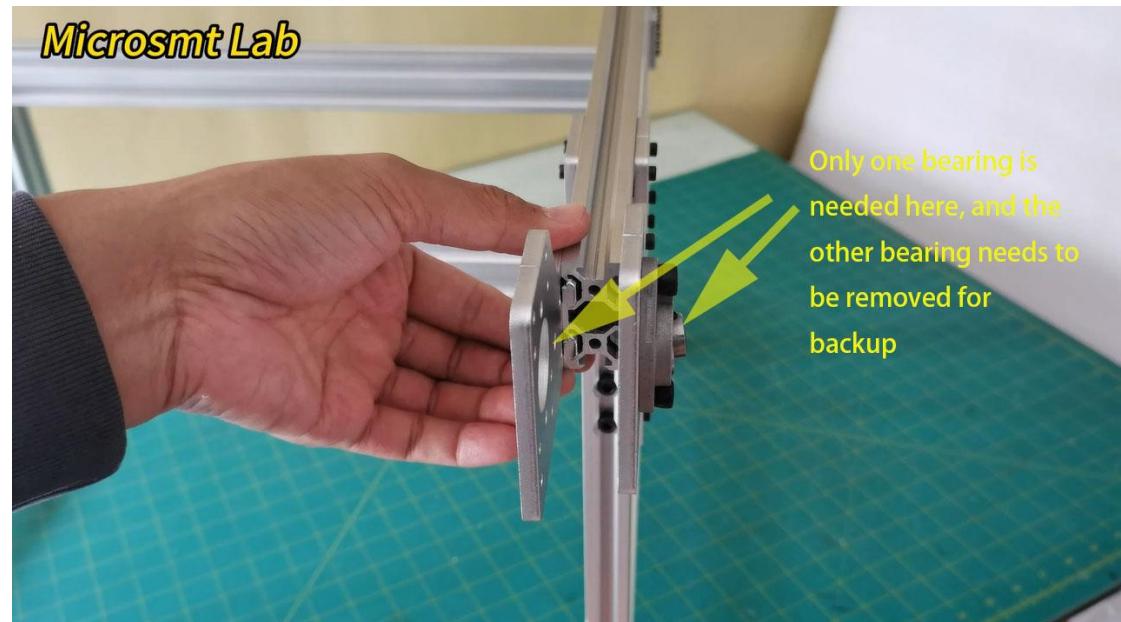
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Step 11: Install B3 locking aluminum plate (left side).



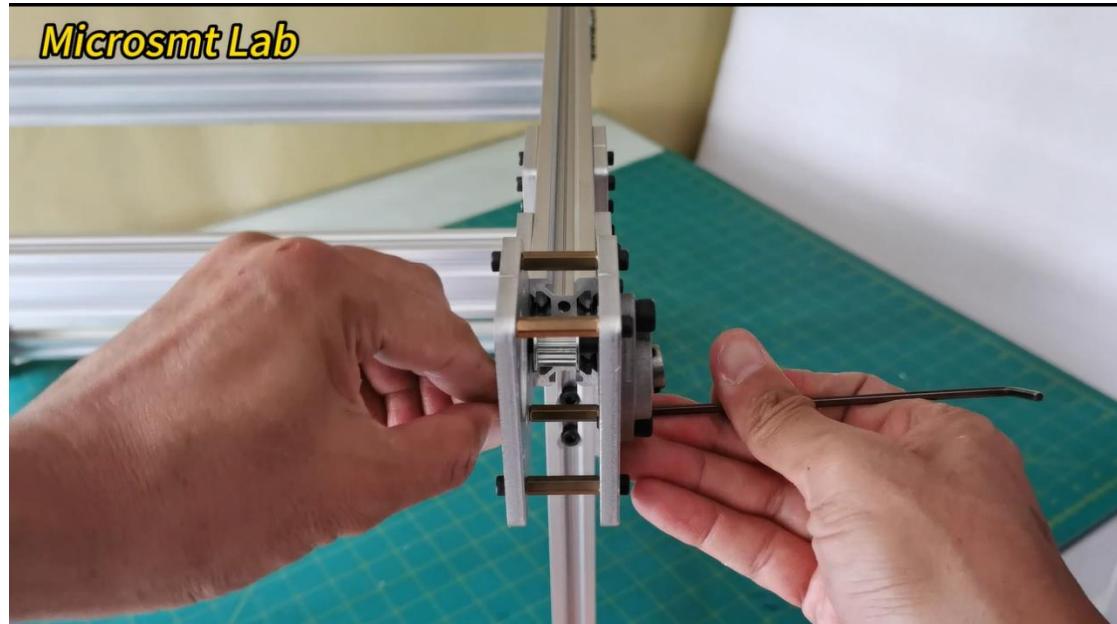
Step 12:



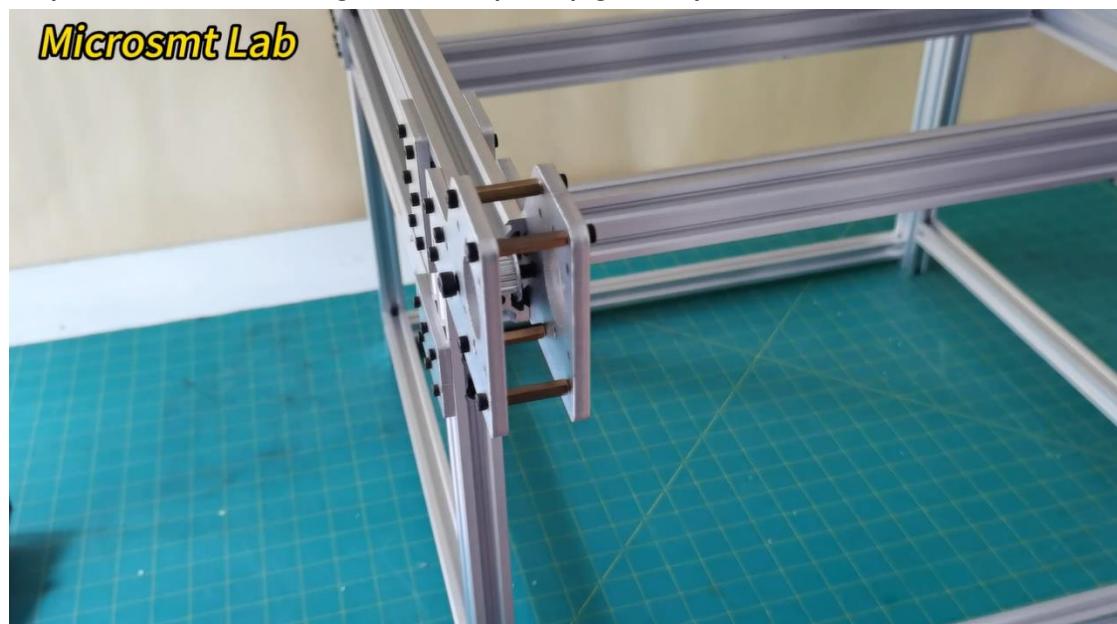
Step 13: Install 20T synchronous wheel.



Step 14: Install M3 * 20 copper nut.

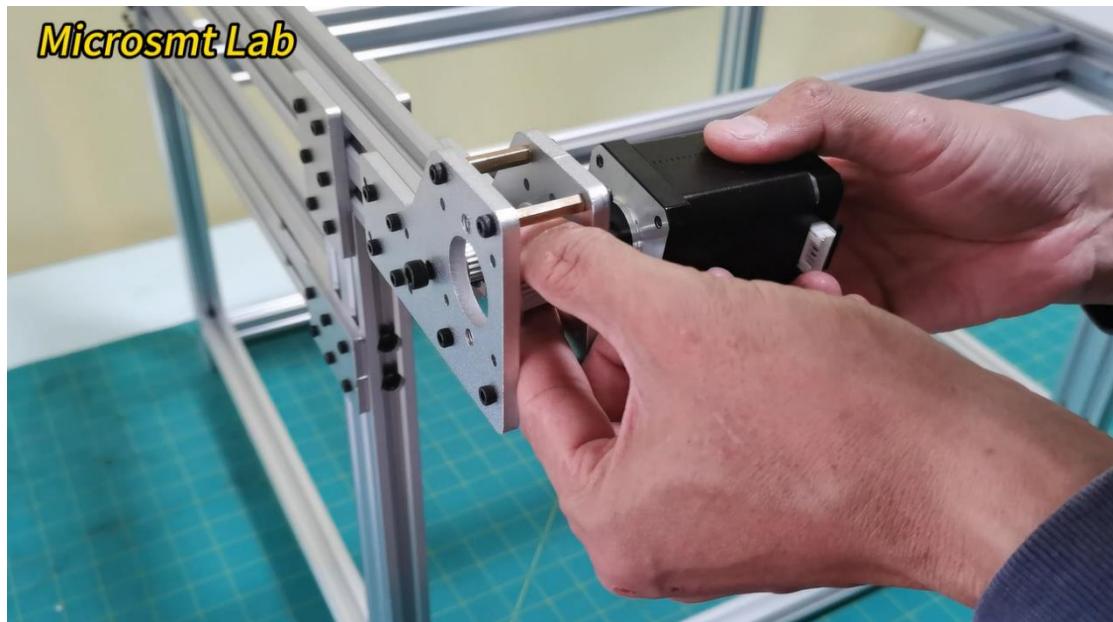


Step 15: Install B3 locking aluminum plate (right side).

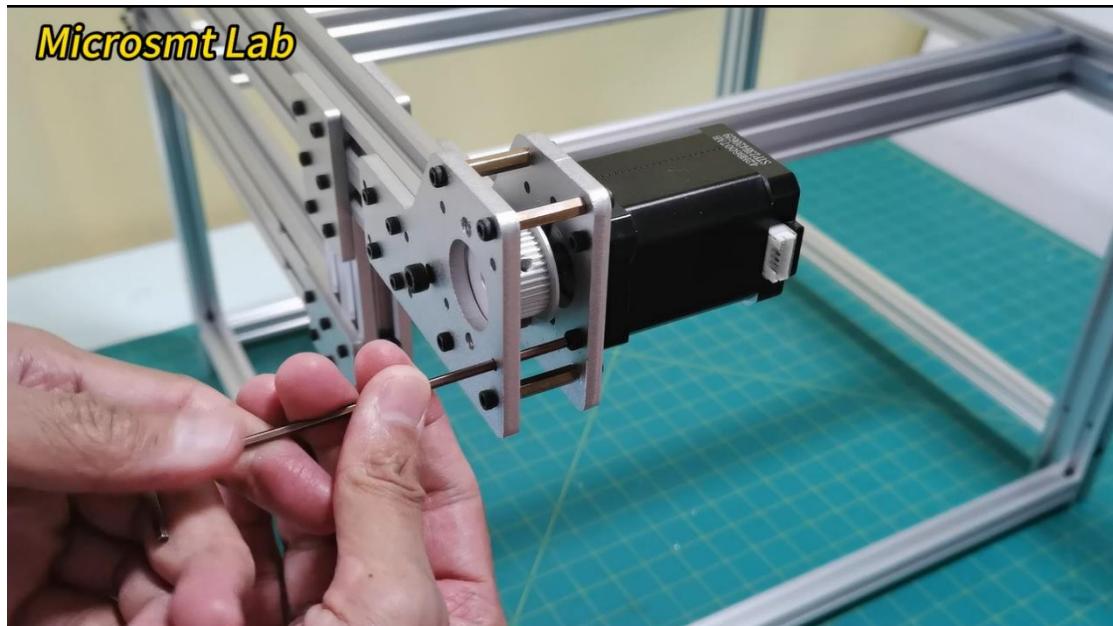


Step 16: Install dual axis motor and 40T synchronous wheel(right).

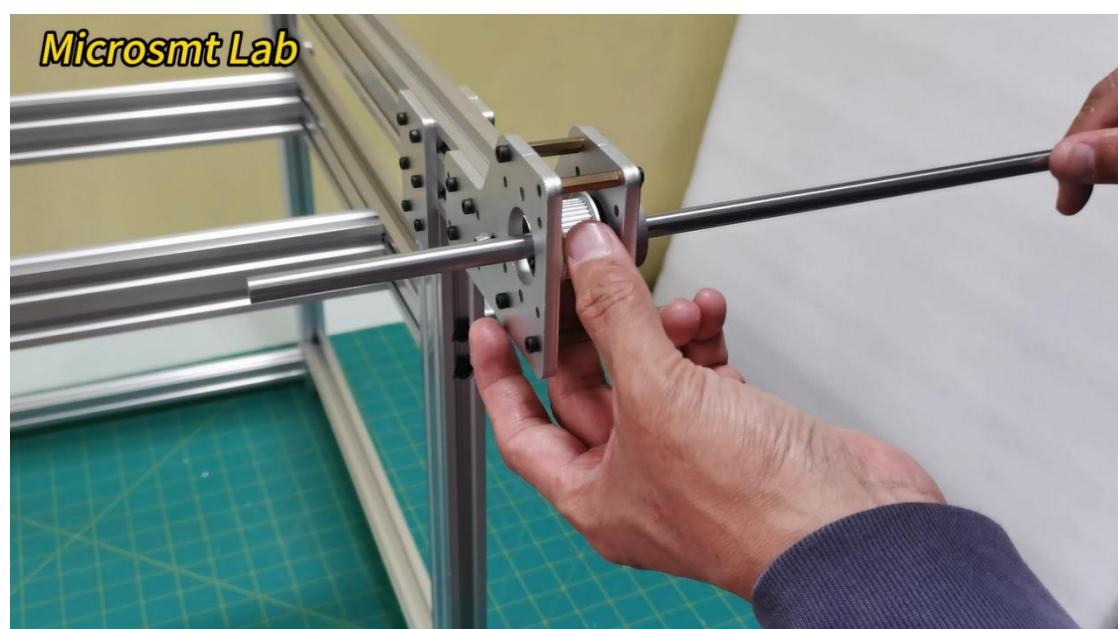
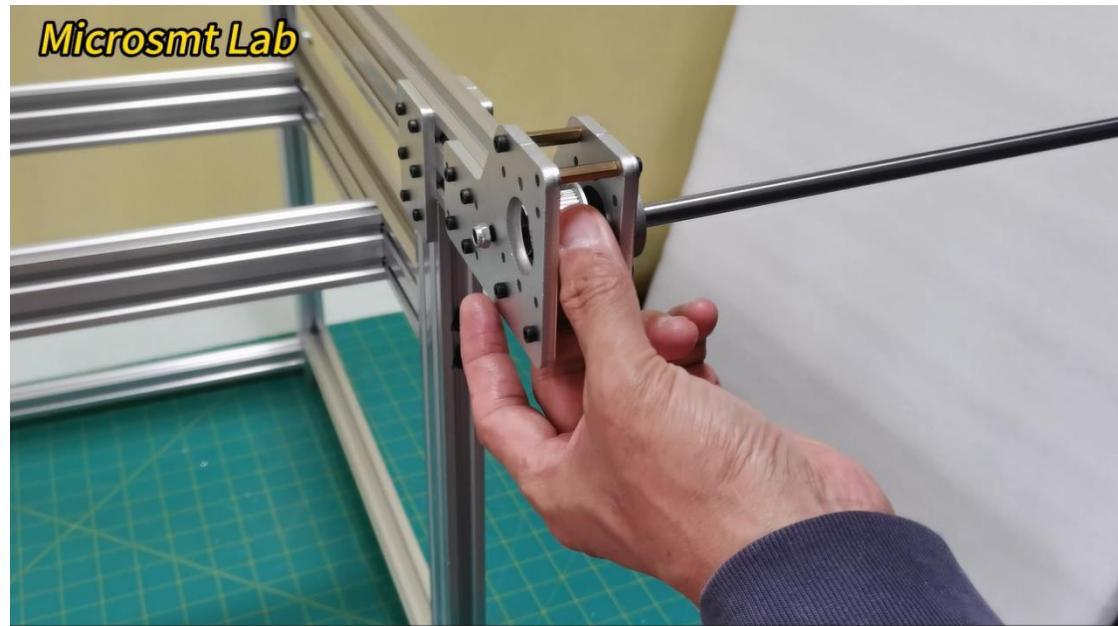
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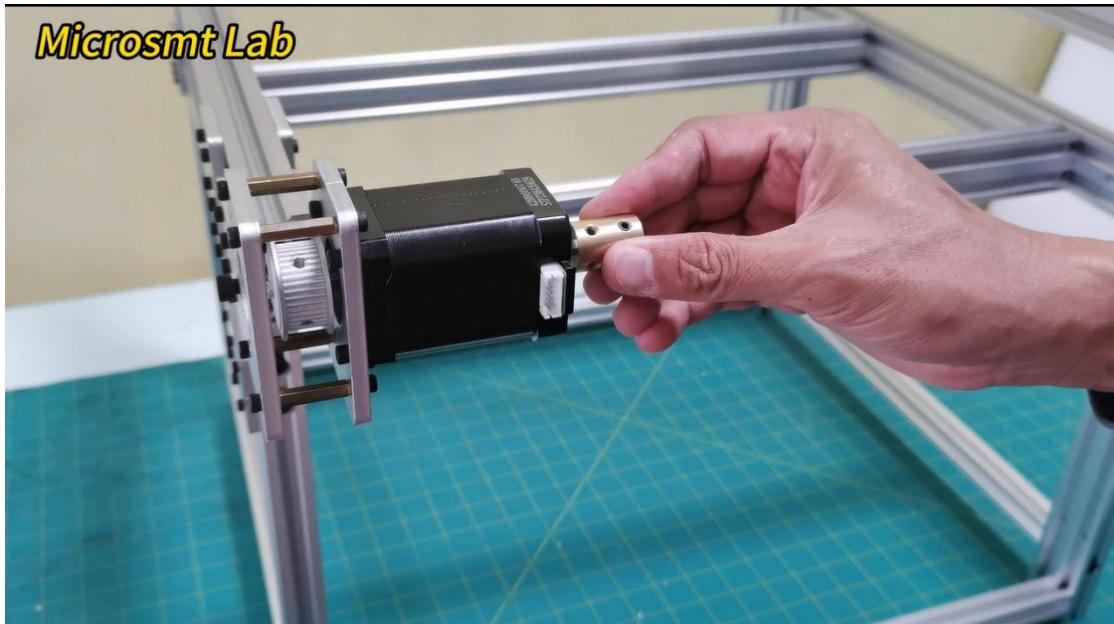


Step 17: Install 8mm synchronous shaft and 40T synchronous wheel (left) .

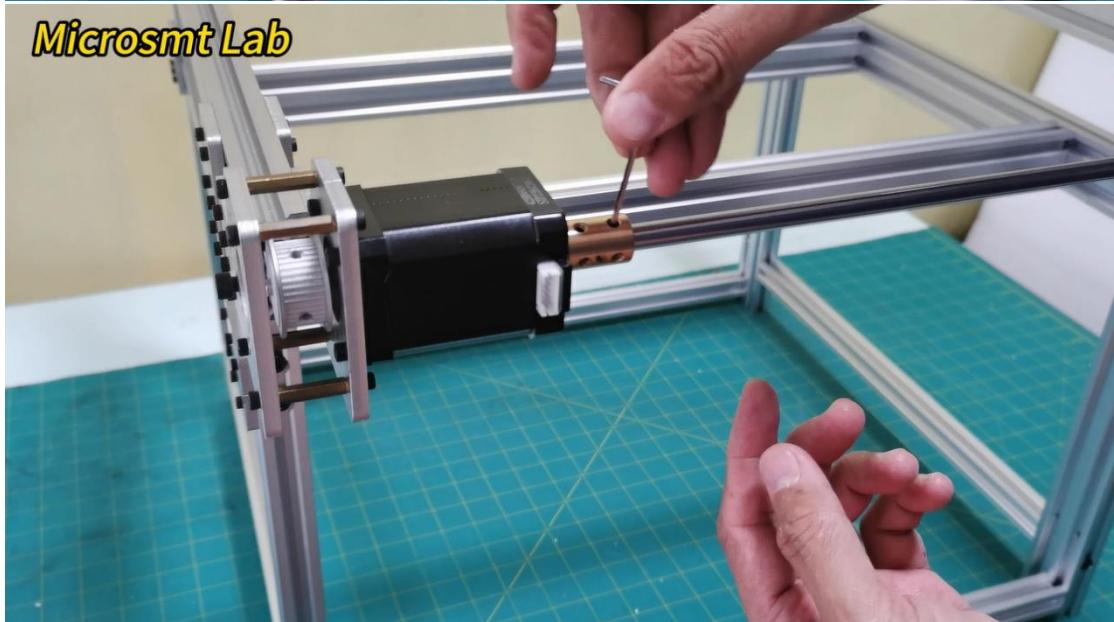


Step 18: Install the coupling and lock the synchronous shaft by M4 screw.

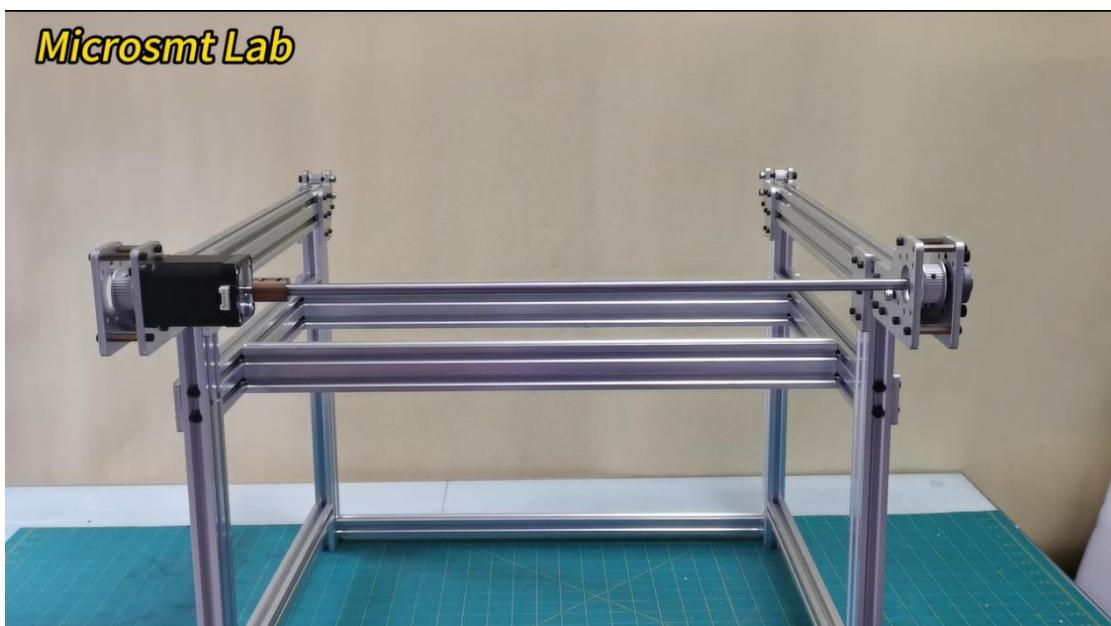
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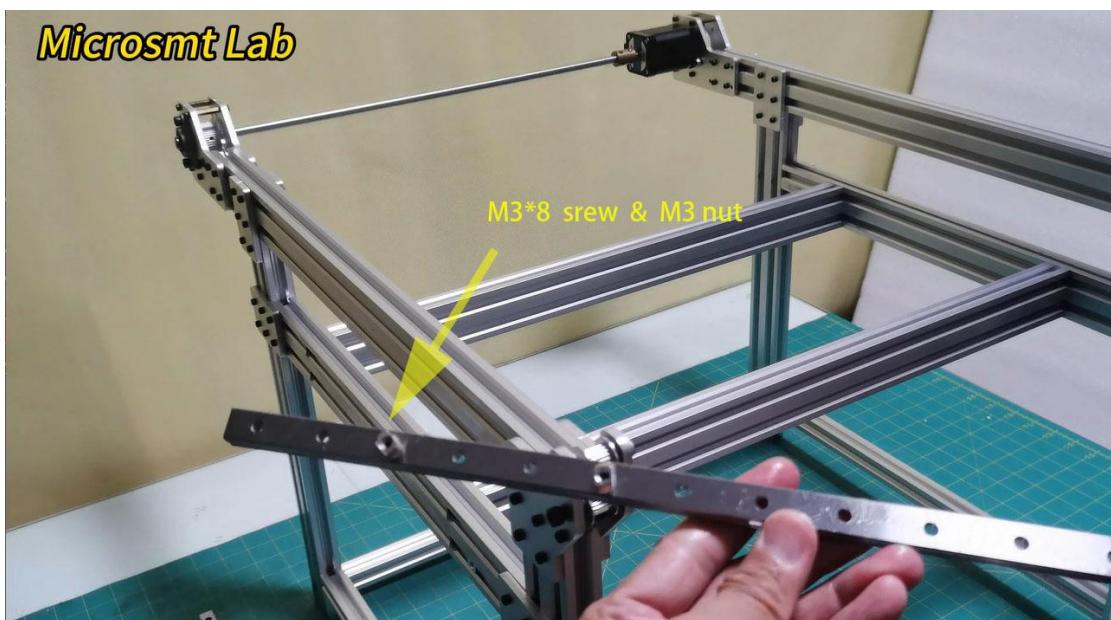


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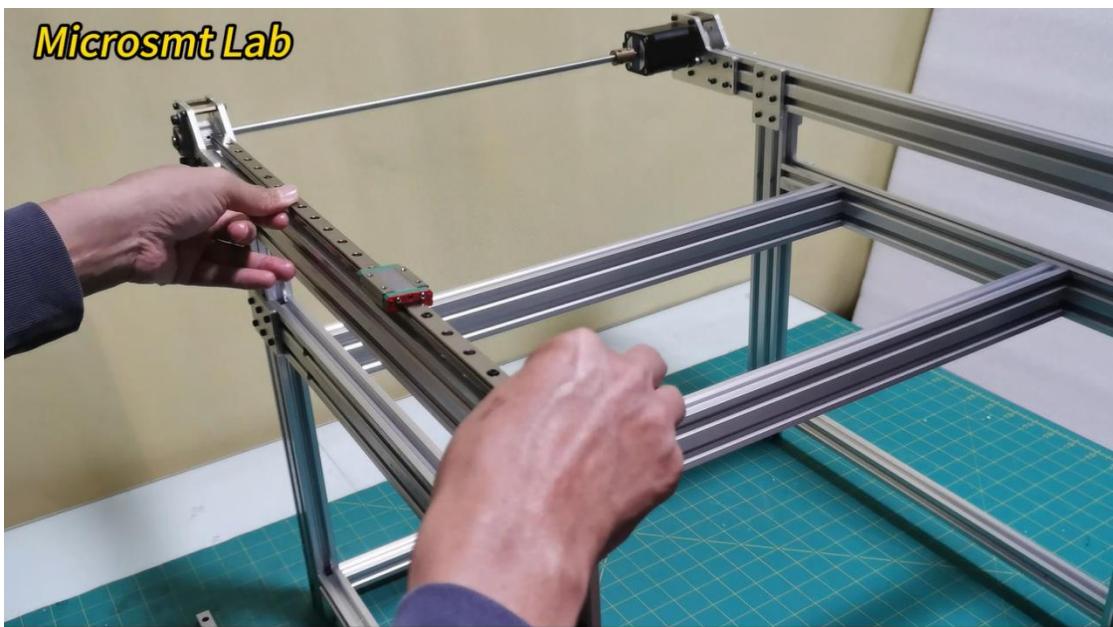


Step 19: Install Y linear guide rail, Use circular nuts for easy replacement, or you can also use square nuts. The quantity is 5-6 pieces, there is no need to put screws in every hole.

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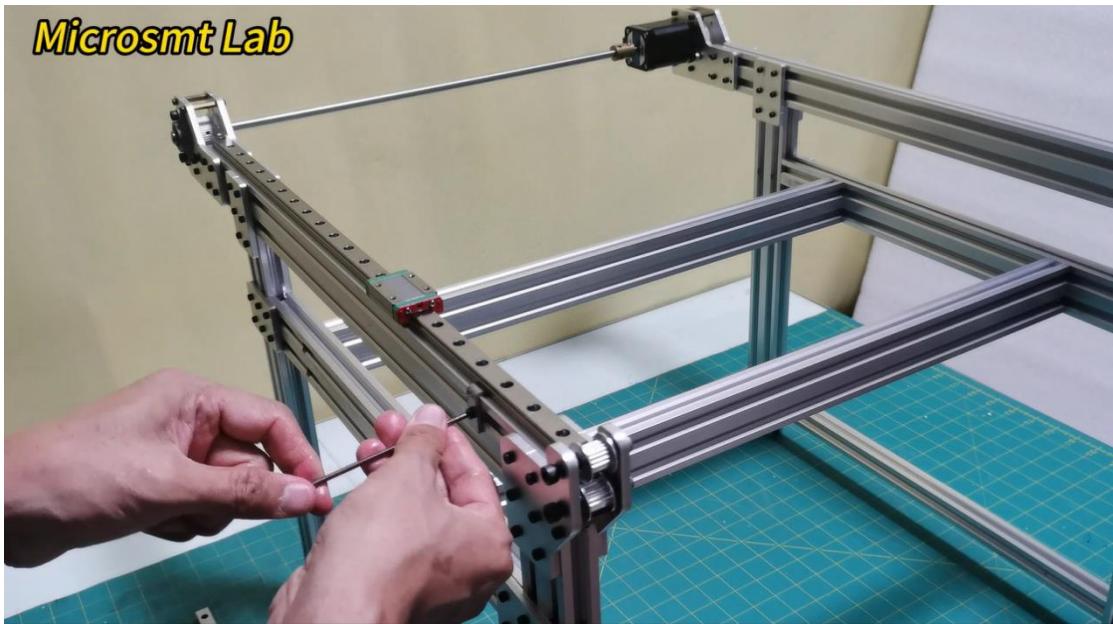


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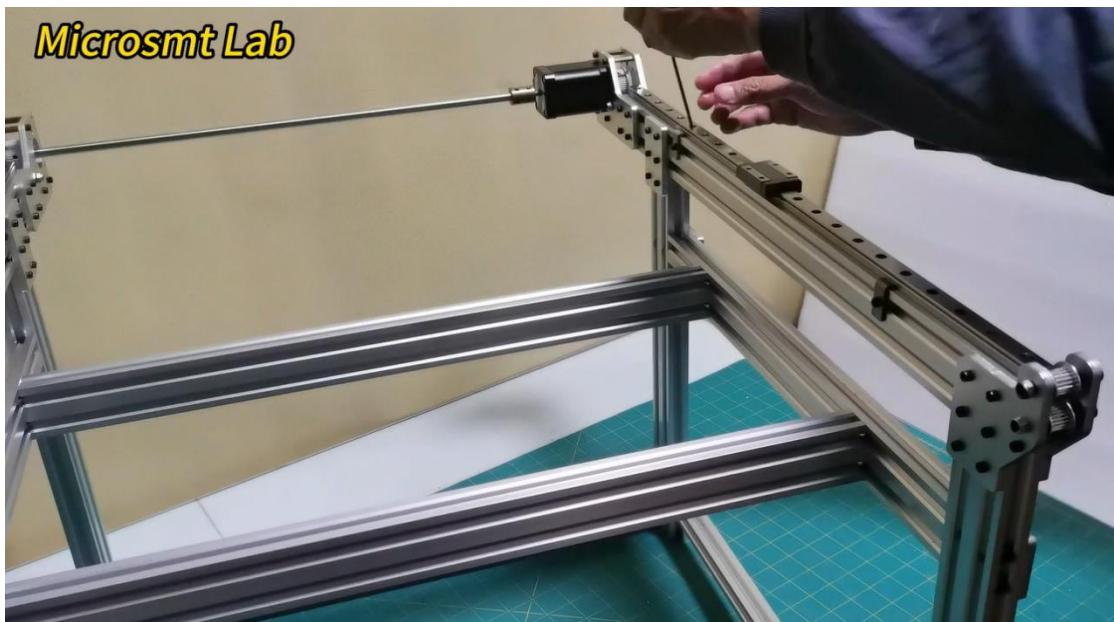


Lock the linear guide rail with 4PCS limit steel plates.

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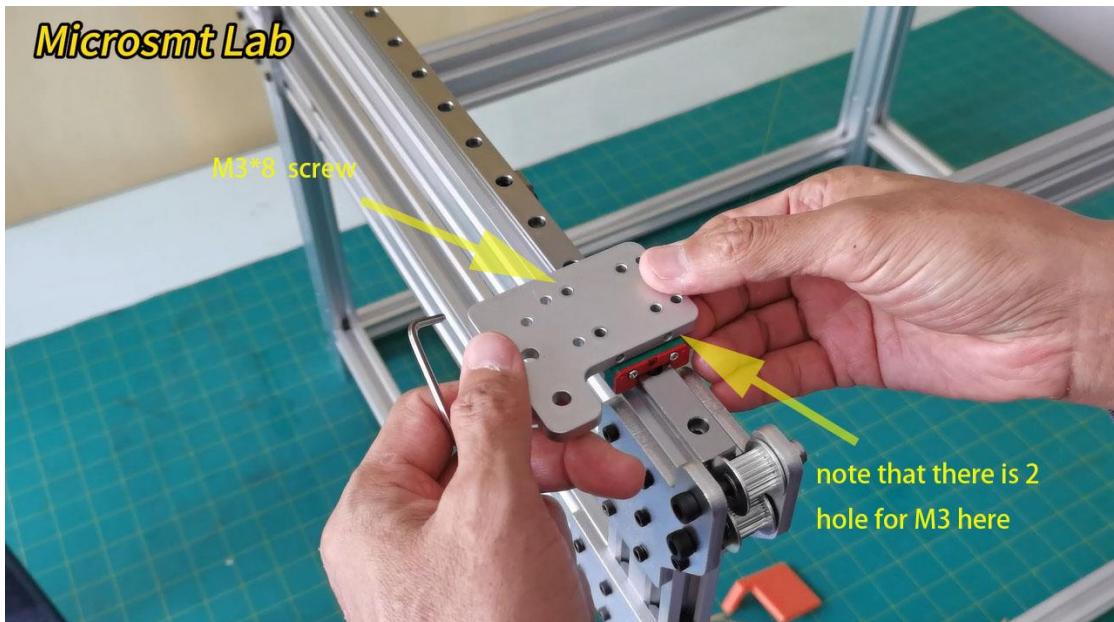


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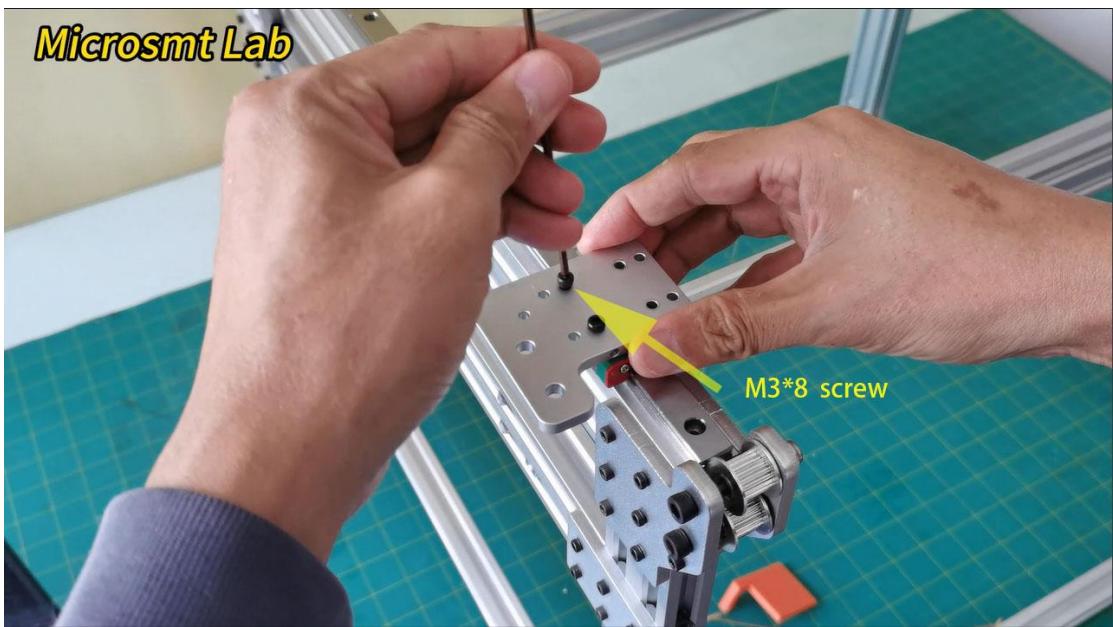


Step 20: Install B4 aluminum plate(belt locked).

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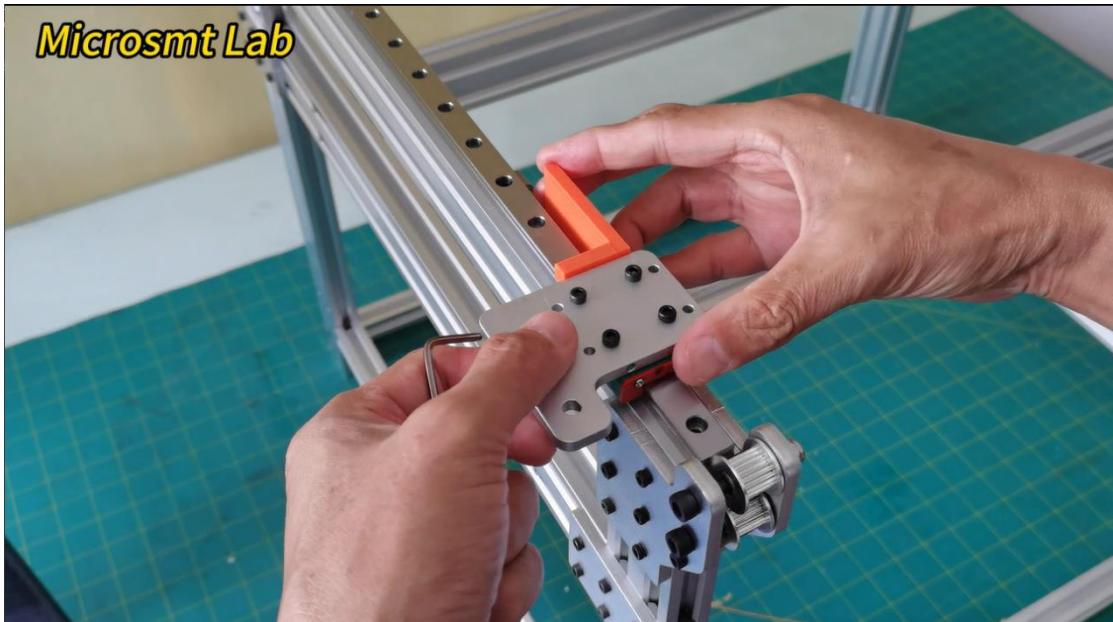


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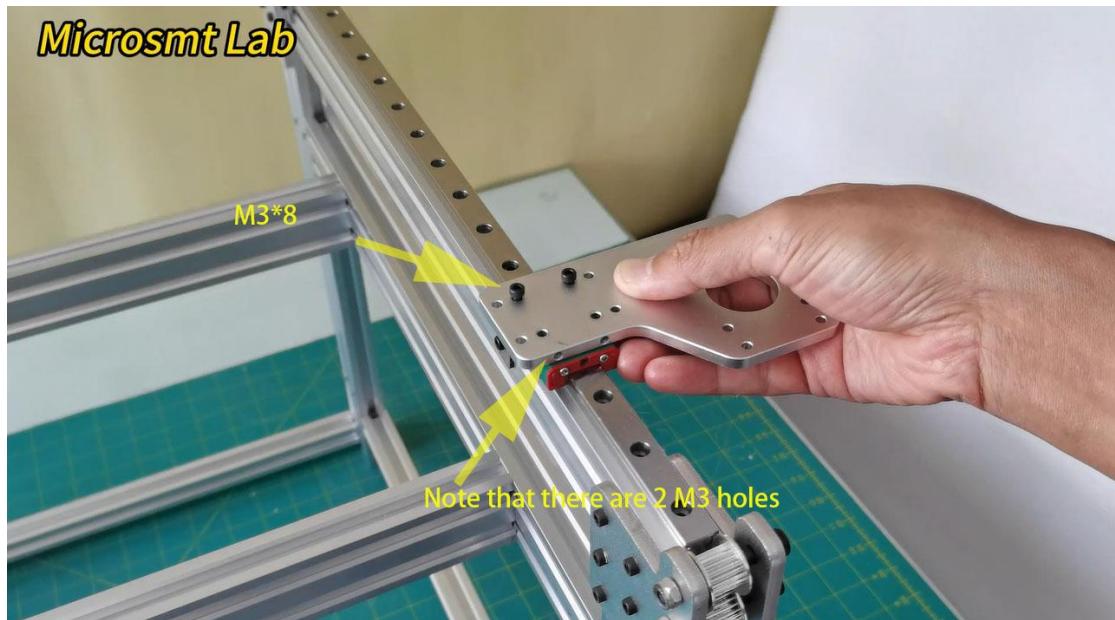


Make it perpendicular to the Y-axis .

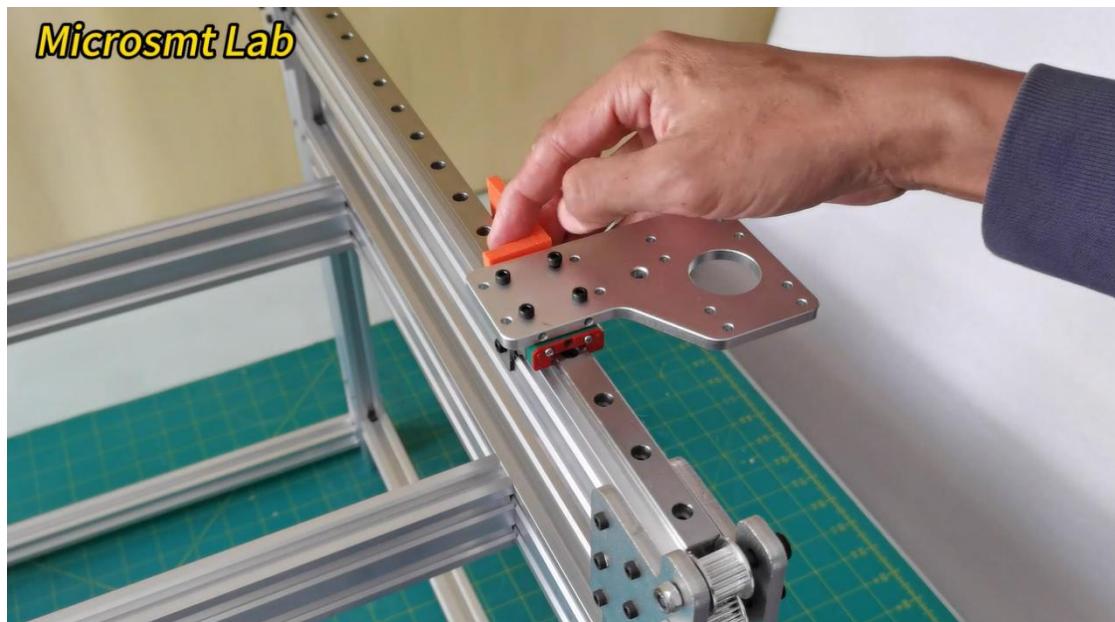
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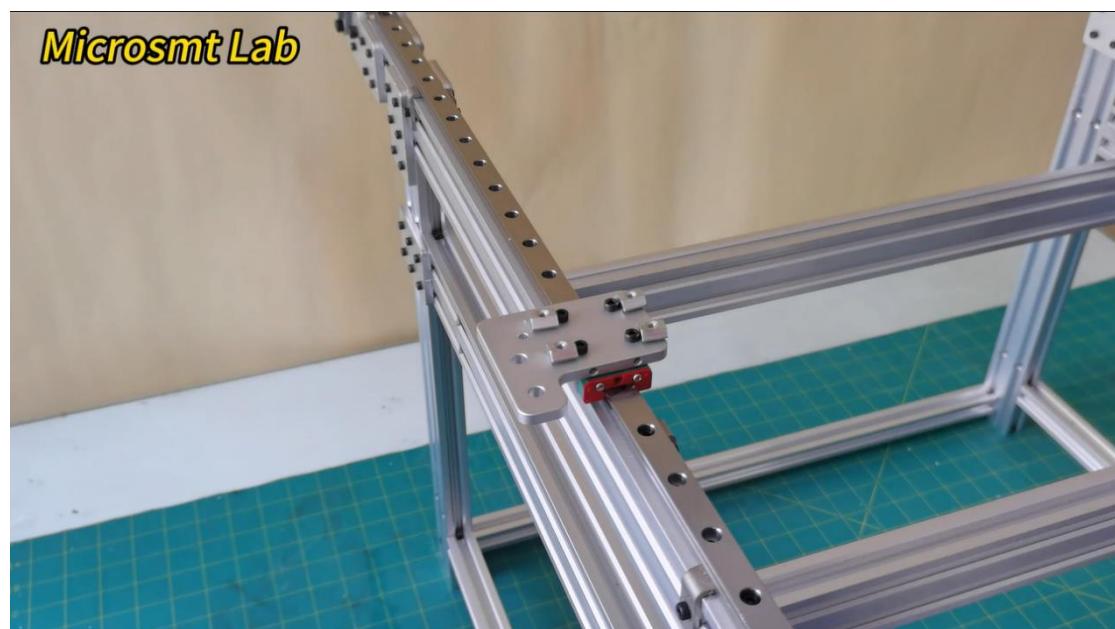
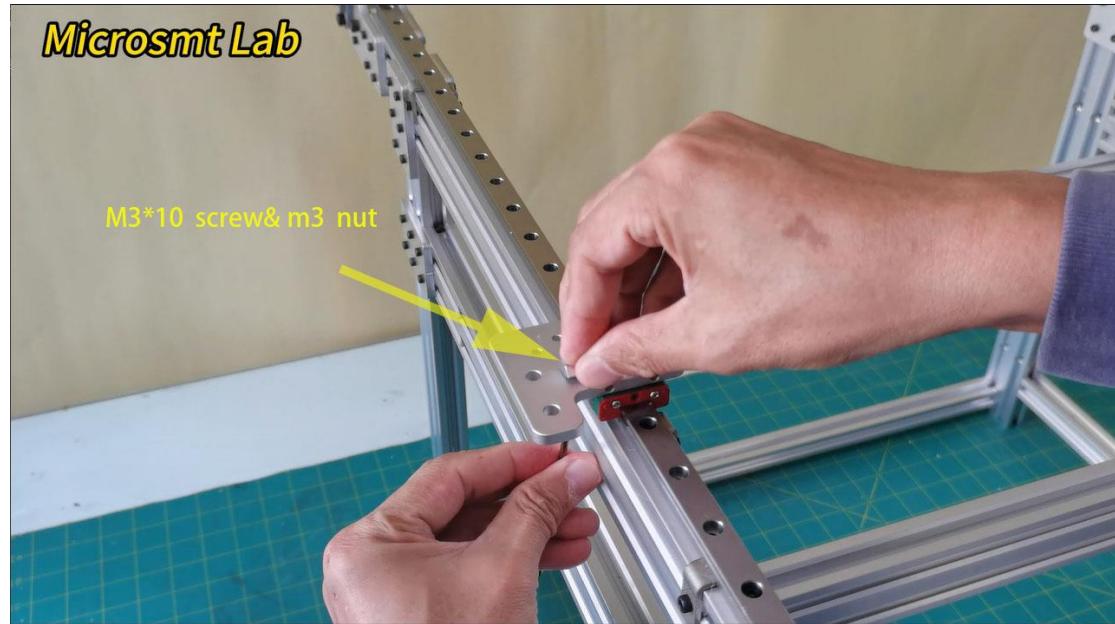
Step 21: Install B3 aluminum plate.

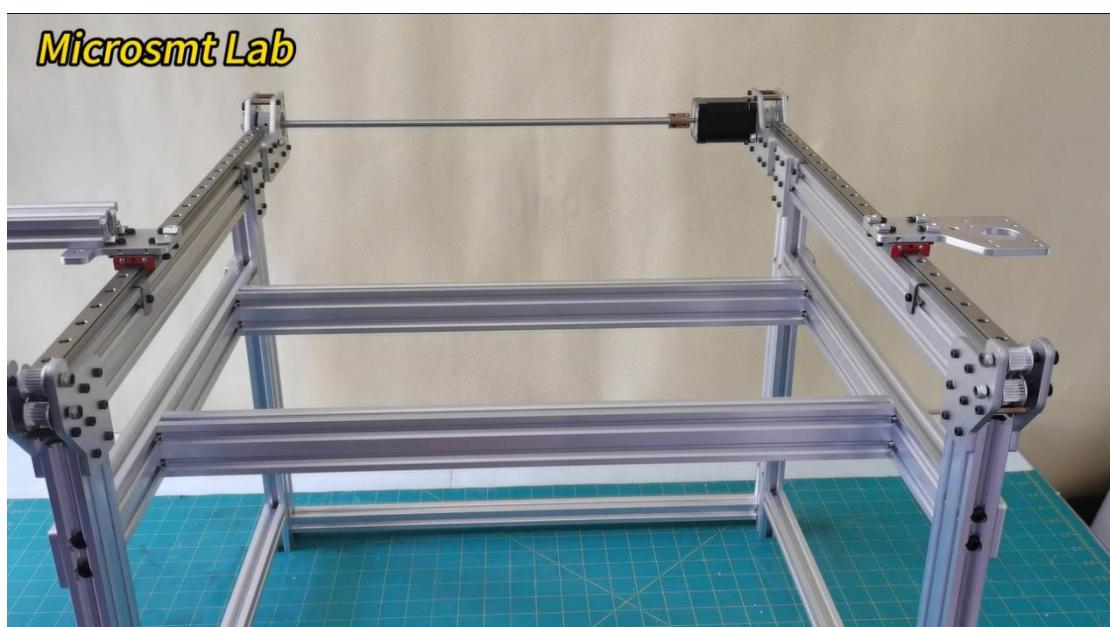
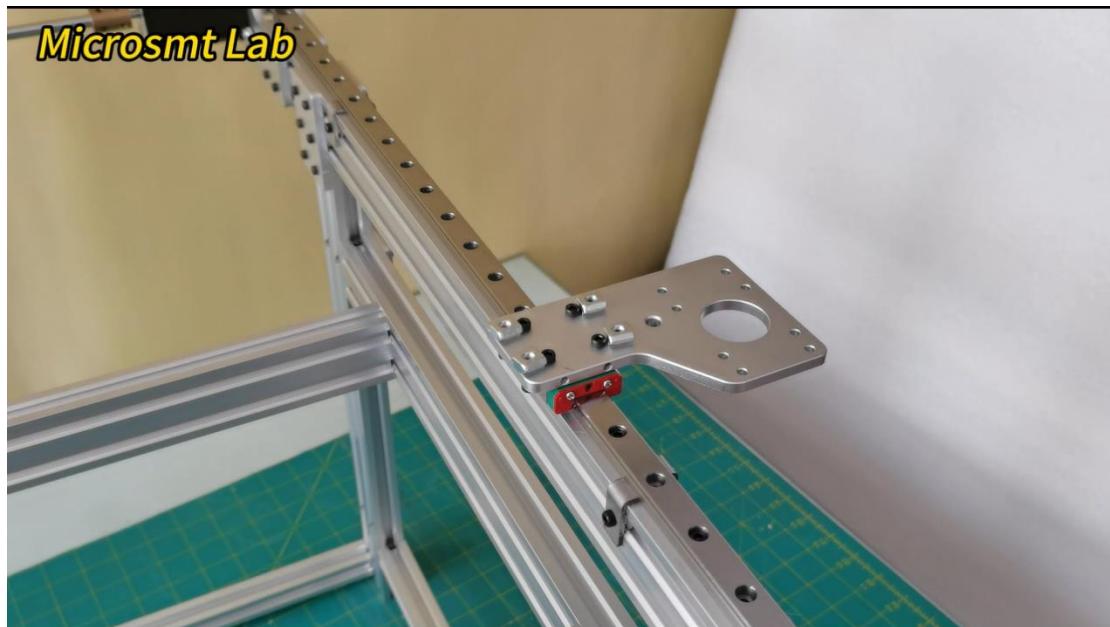


Make it perpendicular to the Y-axis.

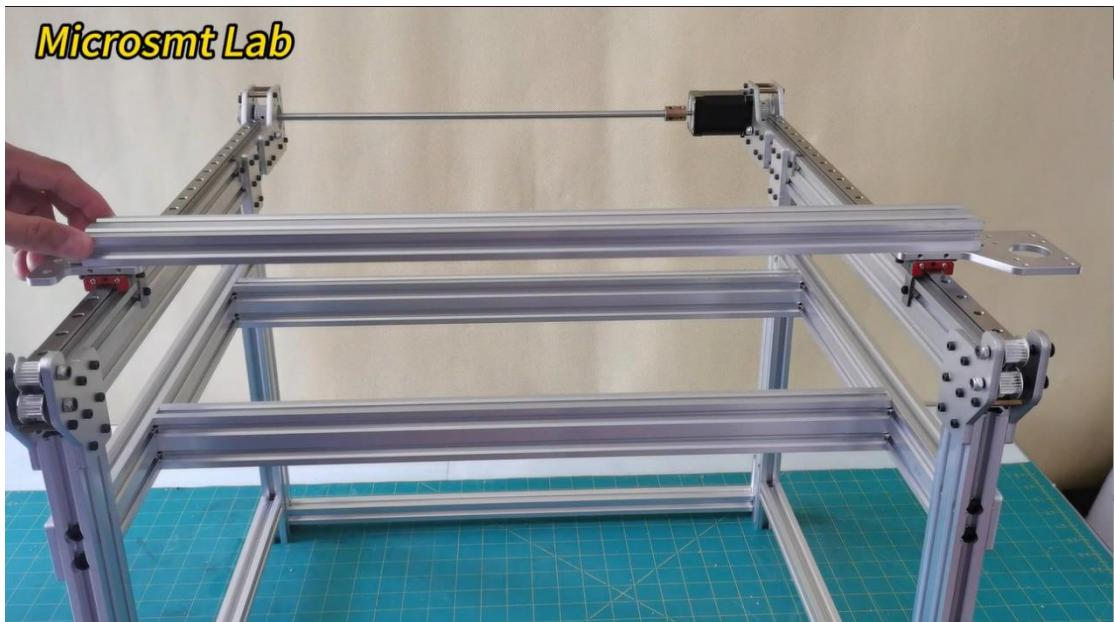


Step 22: Install 563mm 4020 aluminum profile.





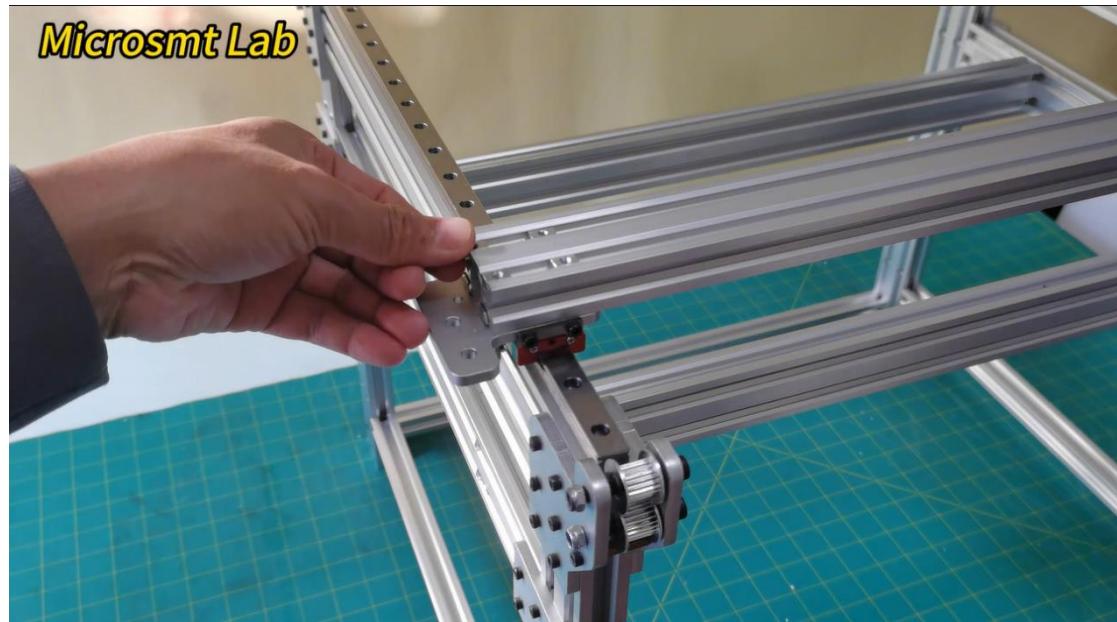
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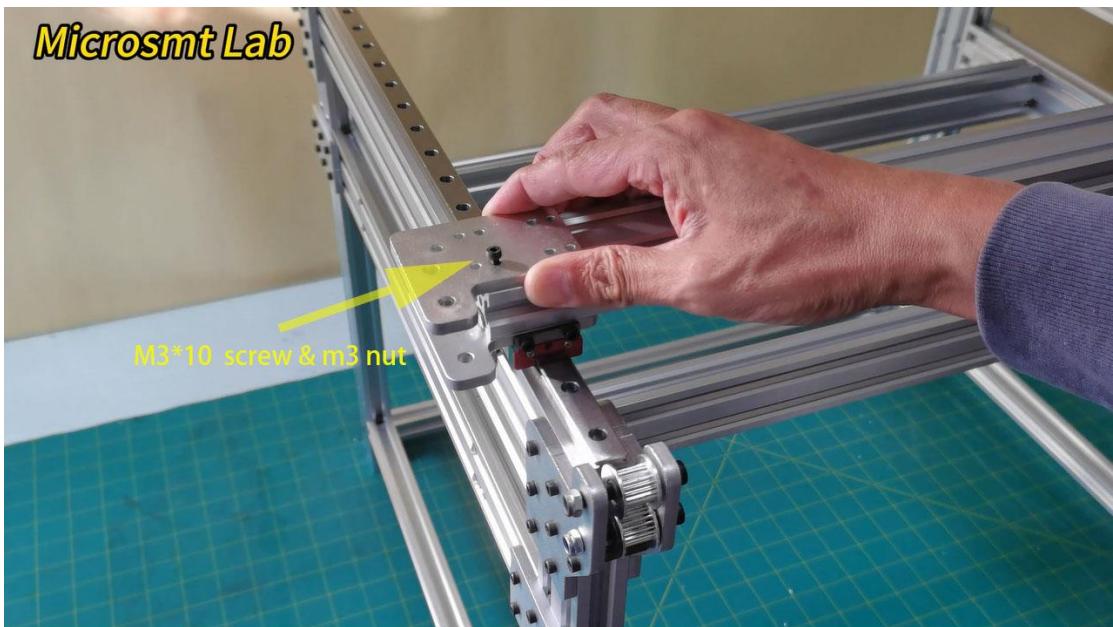
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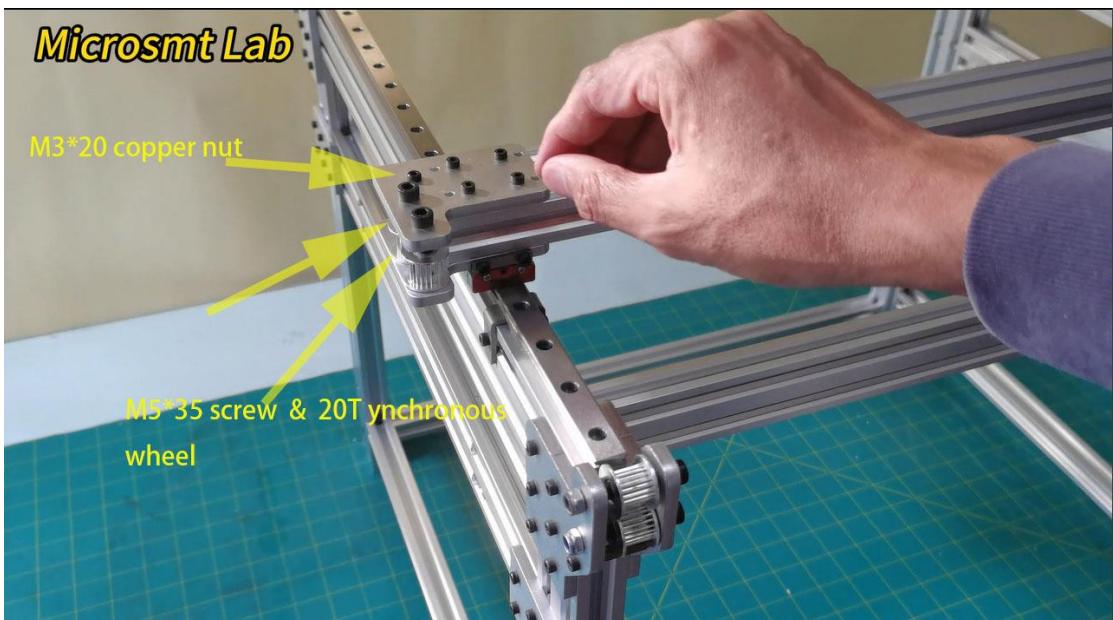
Step 23: Install the 20T synchronous wheel and M3 * 20 copper nut for the X-axis.



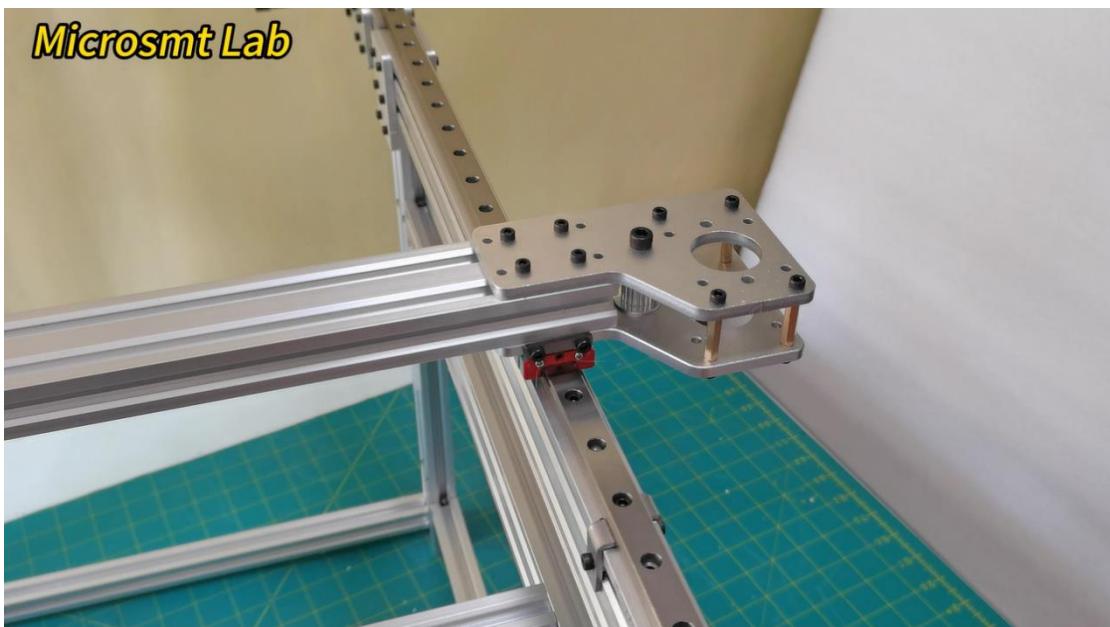
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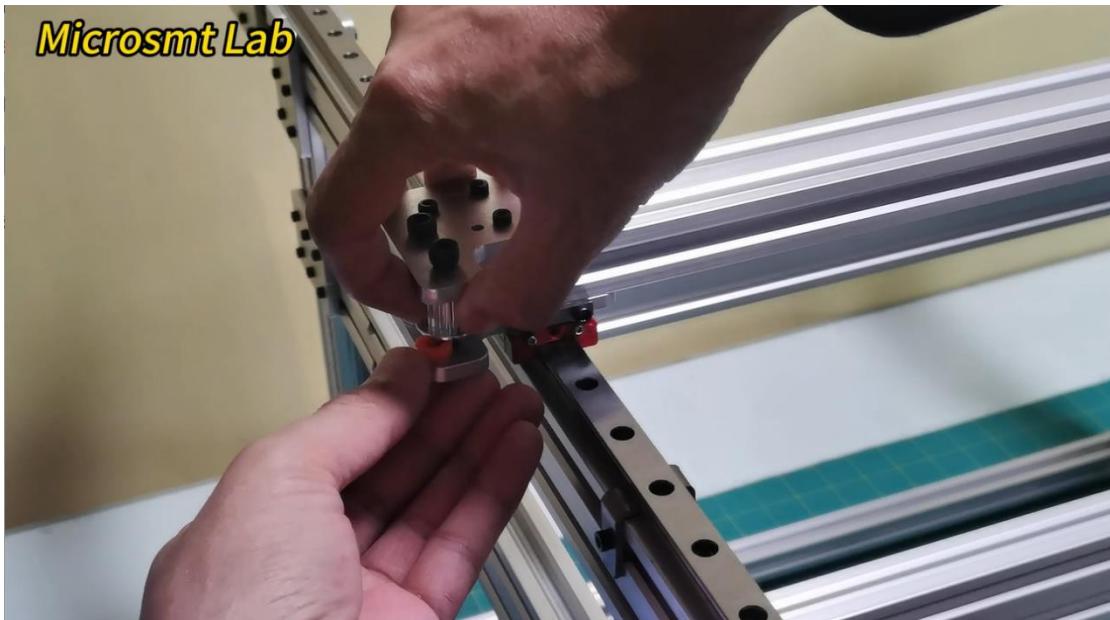


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Step 24: Install synchronous wheel limit washer.

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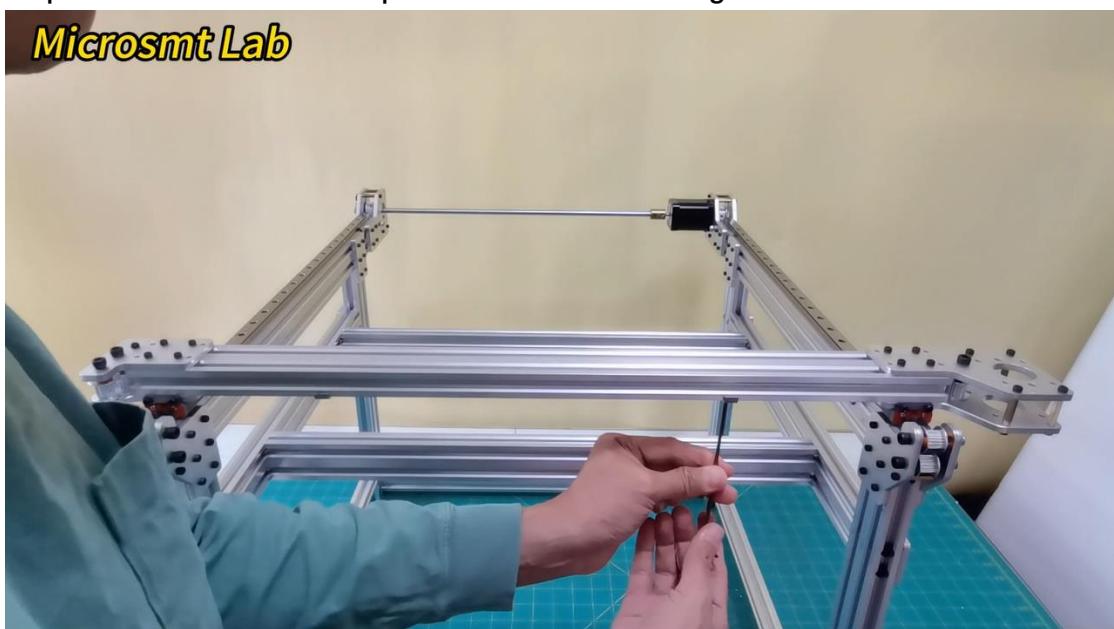


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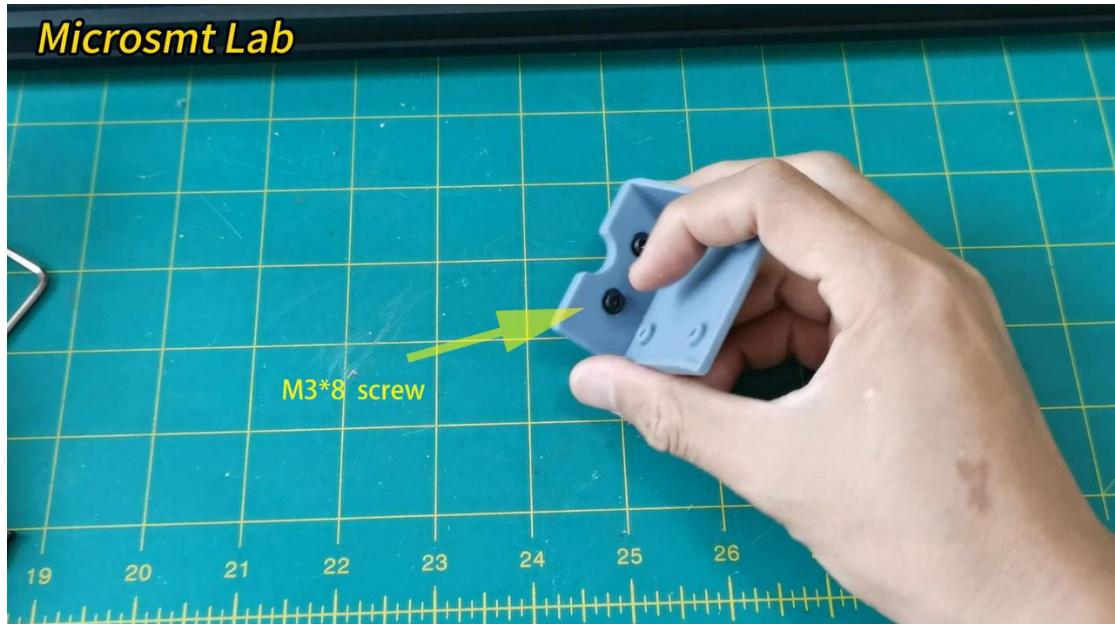


Step 25: Install the limit steel plate for the x-axis linear guide rail.

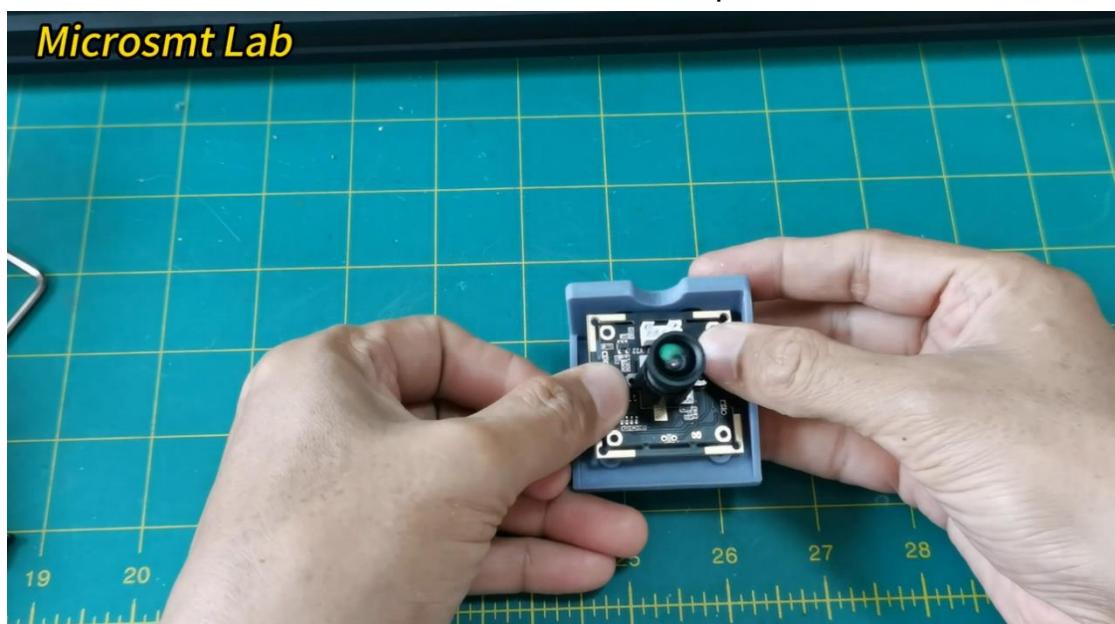
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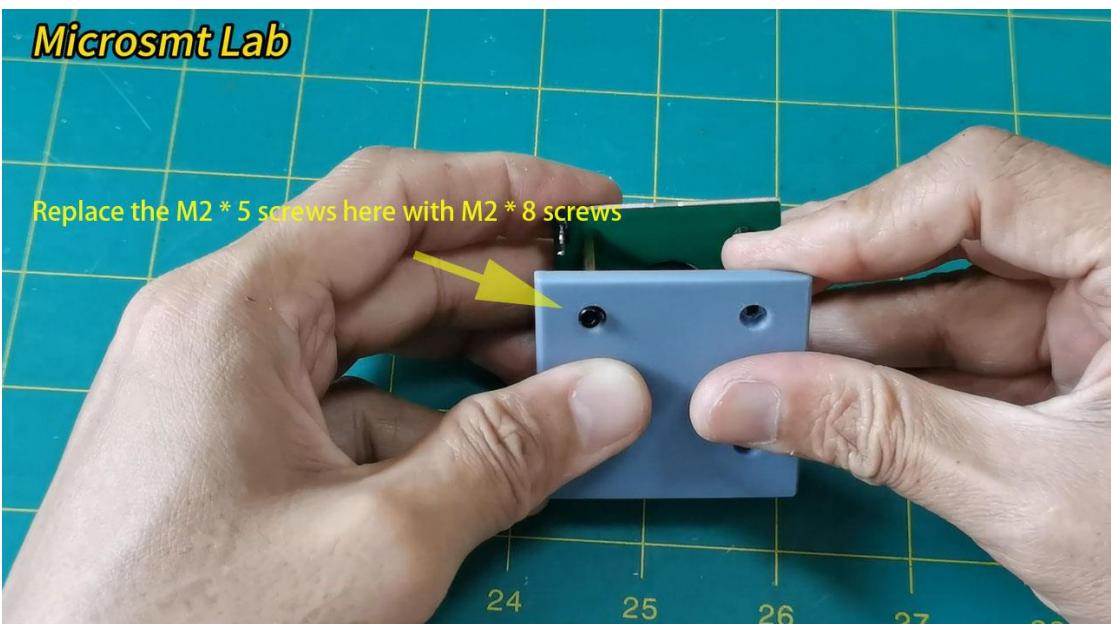
Step 26: Install the top camera.



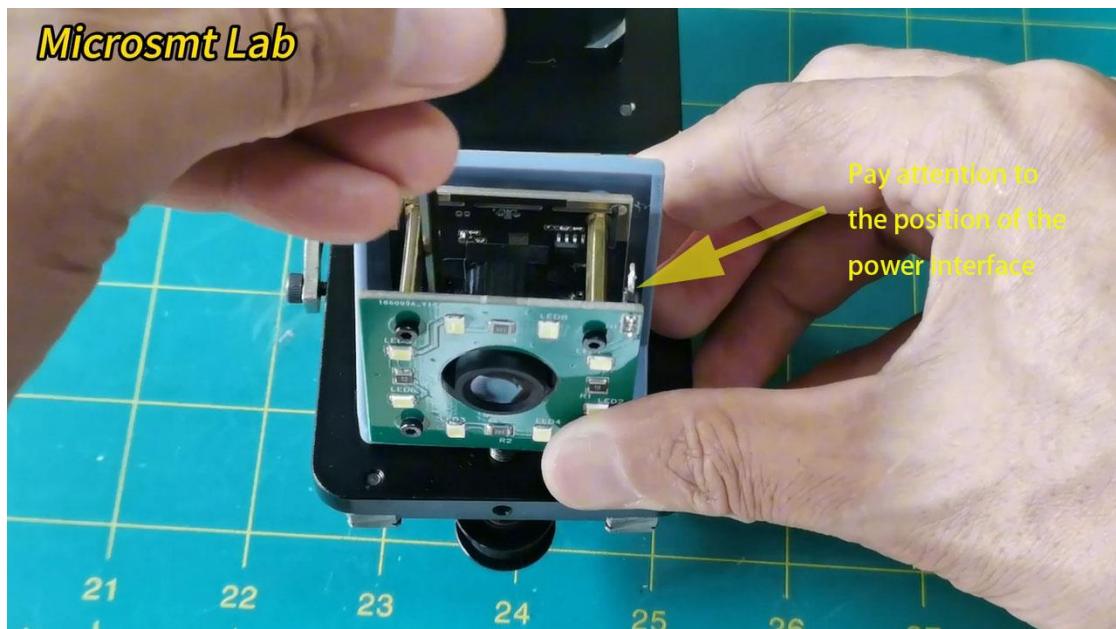
The direction of the camera must be the same as in the photo.



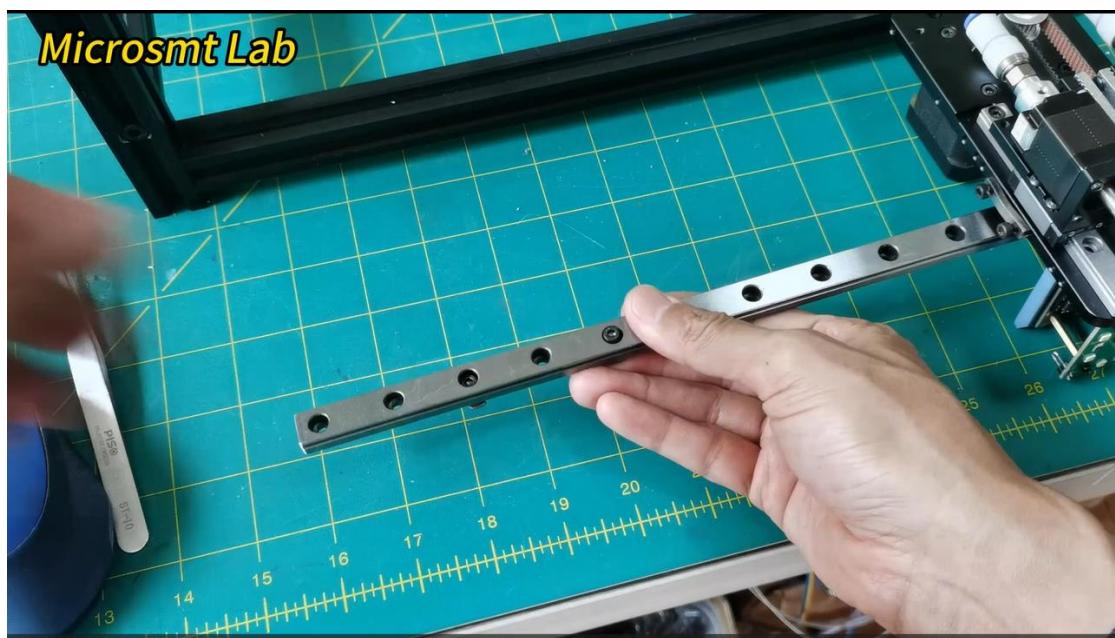
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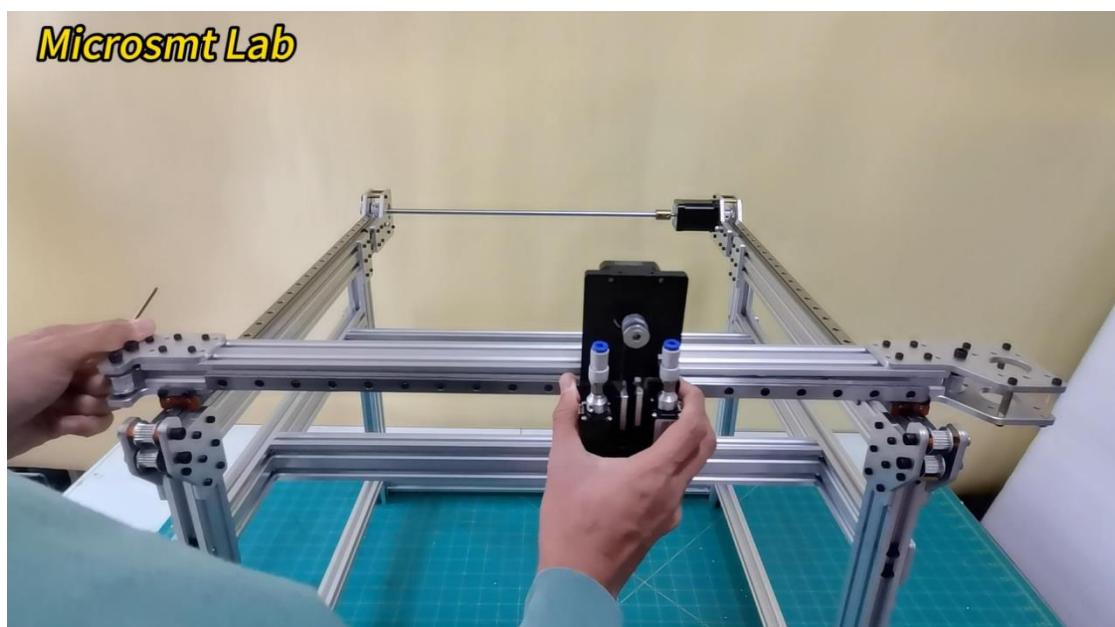
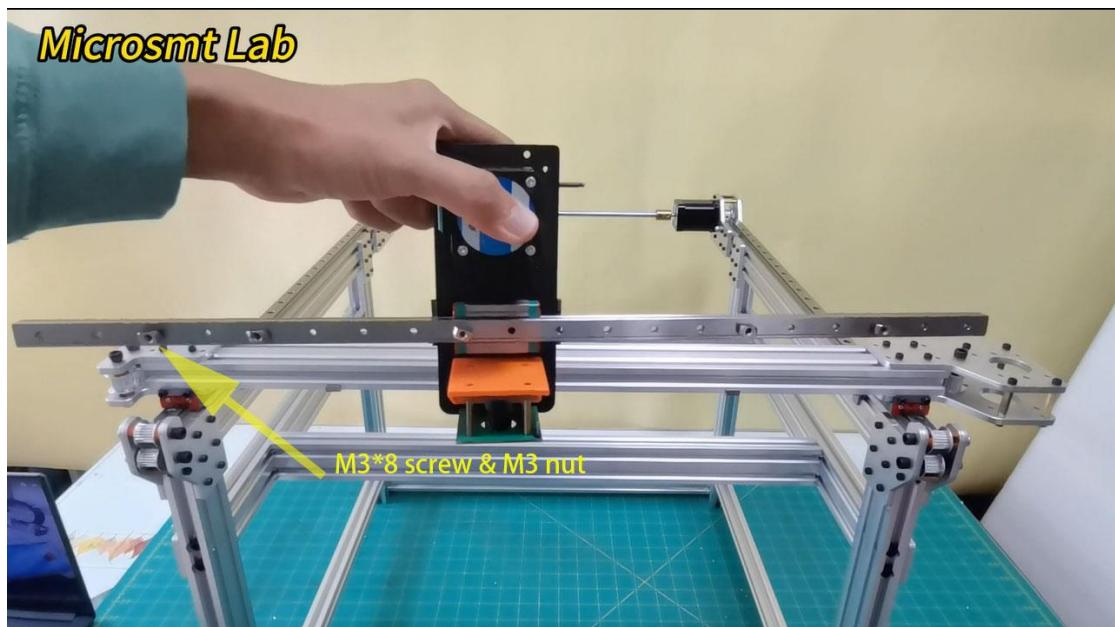


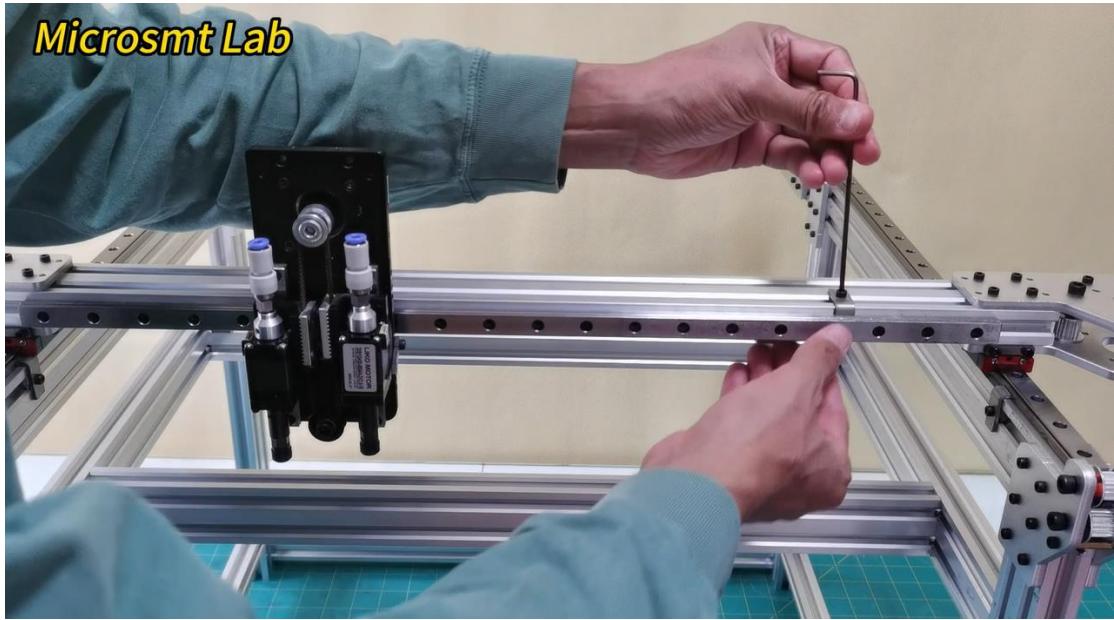
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Step 27: Install X-axis linear guide rail.





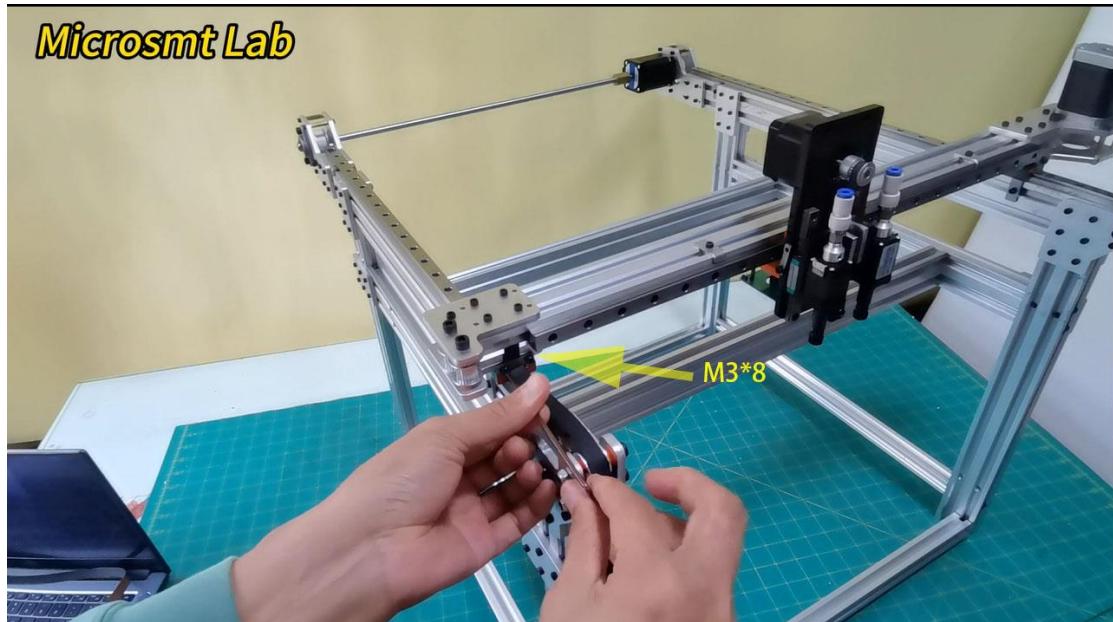


Step 28: Install X-axis motor and 40T synchronous wheel.

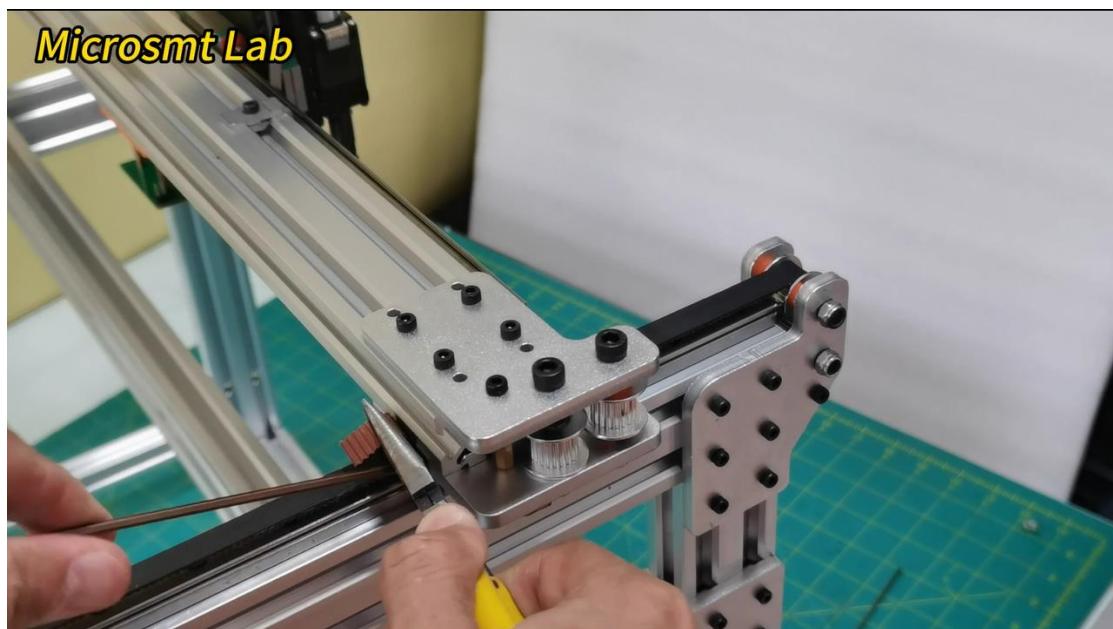


Step 29: Install the y-axis belt.

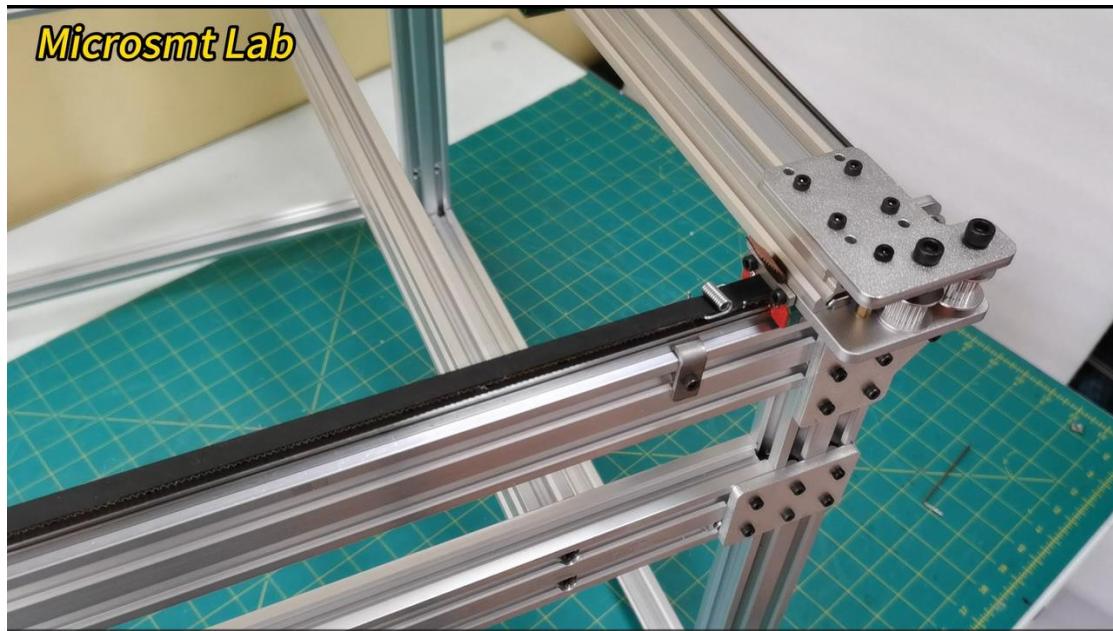
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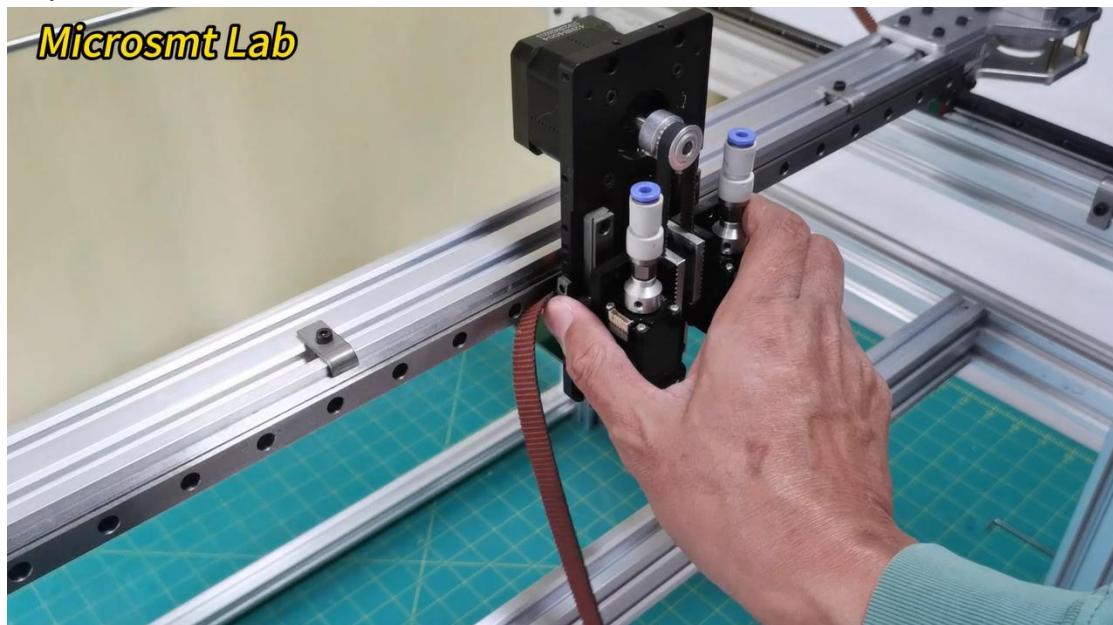
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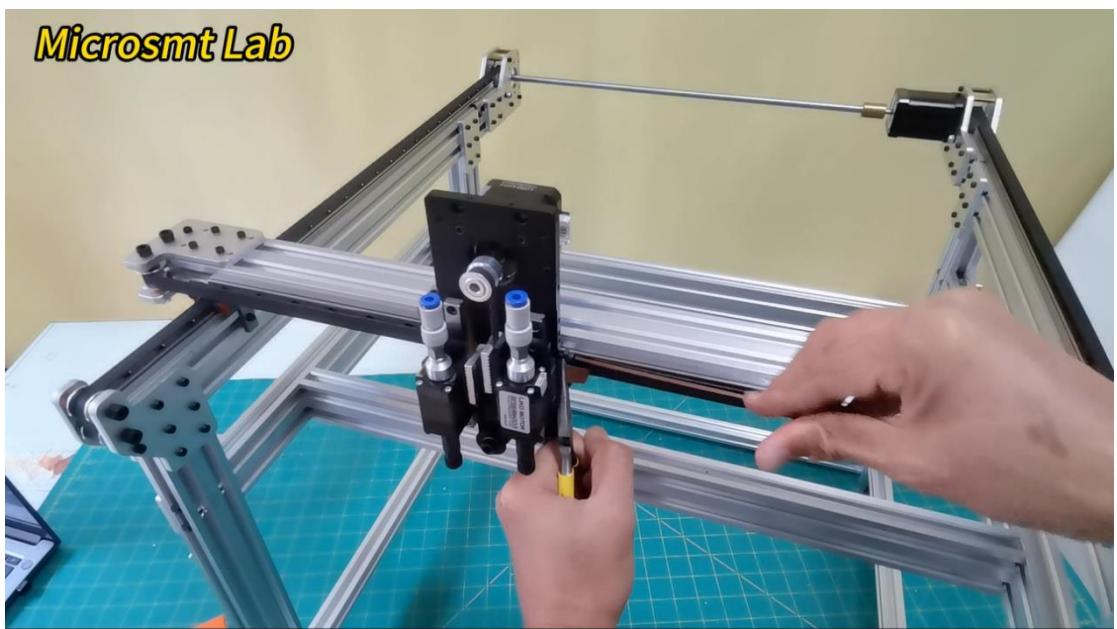
Tighten the belt with a spring.



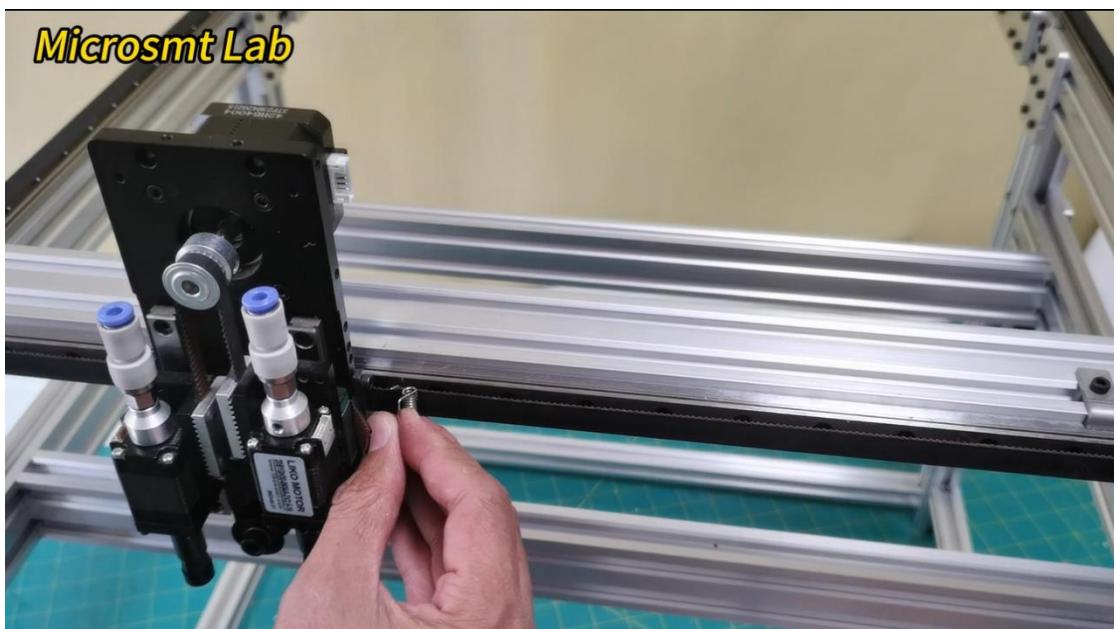
Step 30: Install the X-axis belt.



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Complete the assembly of the frame.

