

# Worm Screw Attachment

## OMMS FLL Team #1 45775

The two critical pieces are:

6L Worm Gear (73763)

2x2x1 2/3 Box w/ Worm Gear Hole (73764)

This attachment allows for high torque straight vertical lift. It is not fast (so not good for smacking things) but if you need to move something straight up or down with reliable torque this is the attachment to use. The team used this for lifting Mission 1/Brush, 2/Loop, 3/Minecart, and 13/Statue,

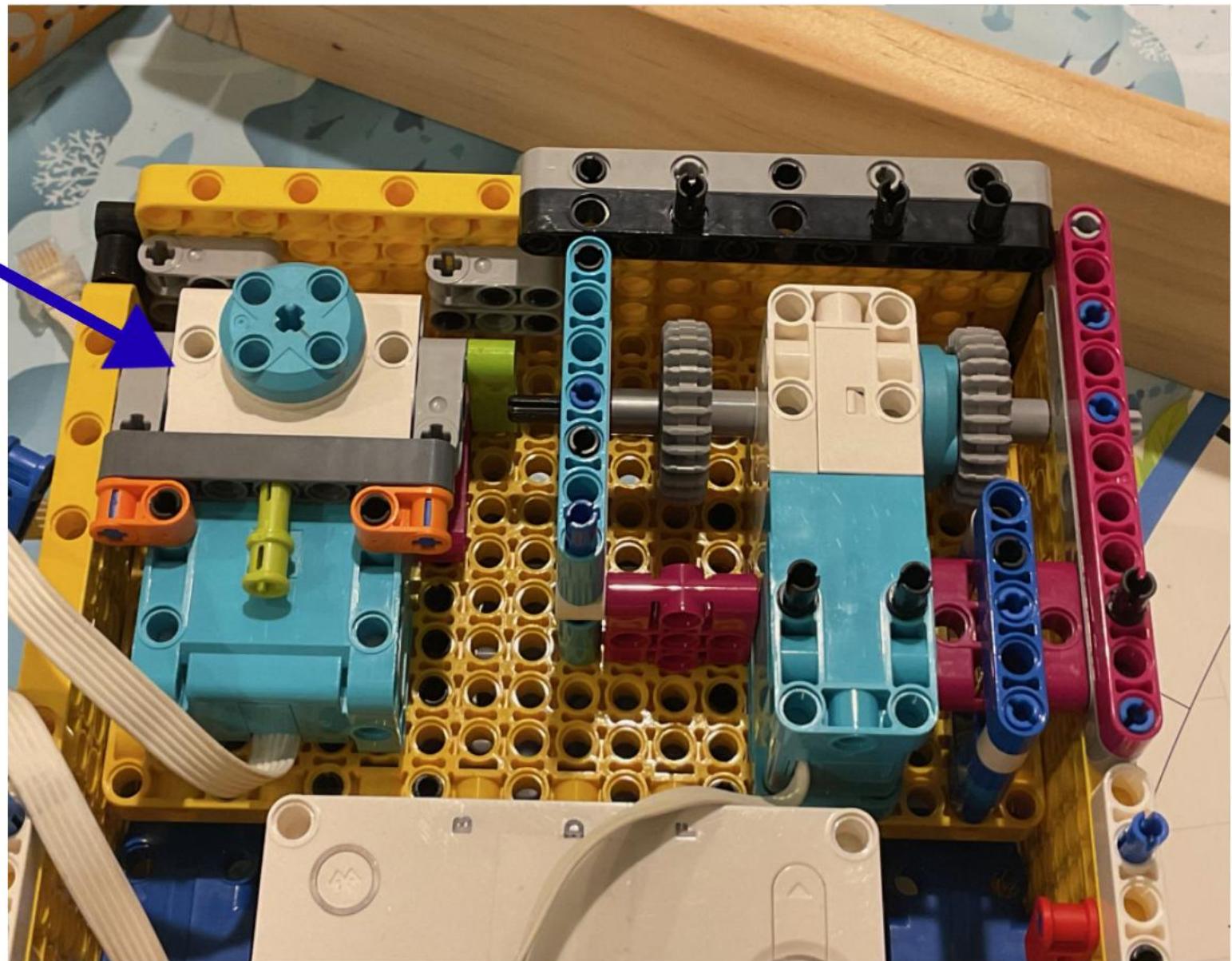
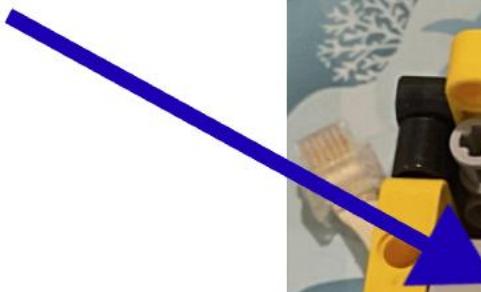
Version 1.0 rev 14

25 Dec 2025

It was inspired by this YouTube video:

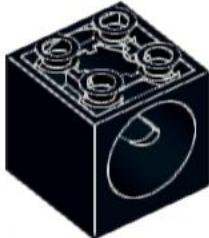
<https://www.youtube.com/watch?v=9KNSUKzYGi0>

The left motor is used for this attachment. It "docks" with the four cross-axle connectors.





27x  
2780  
Black



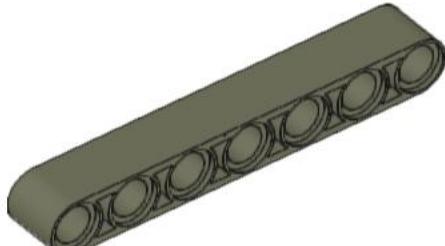
1x  
73764  
Black



1x  
32073  
Black



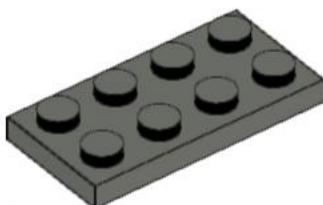
1x  
3706  
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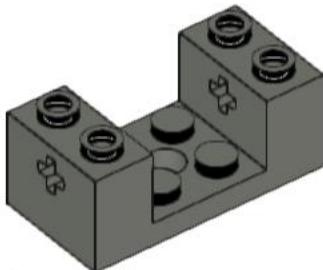
1x  
32524  
Dark Gray



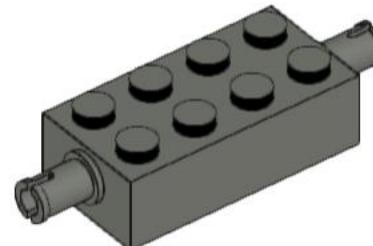
4x  
3023  
Dark Bluish Gray



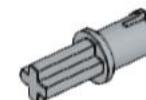
1x  
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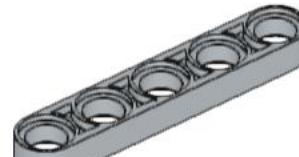
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67446  
Dark Bluish Gray



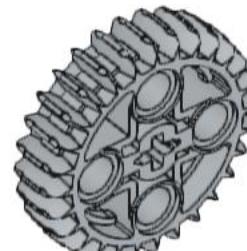
2x  
6249  
Dark Bluish Gray



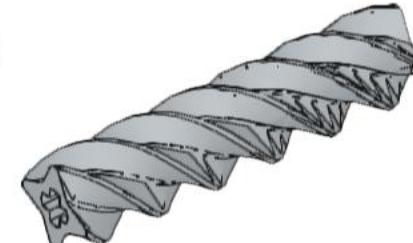
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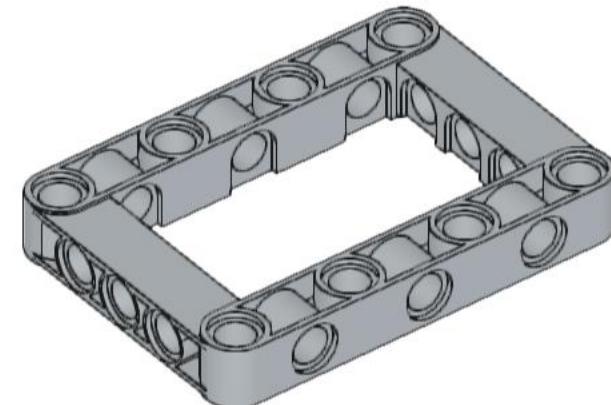
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32017  
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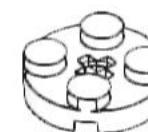
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46372  
Light Bluish Gray



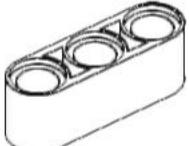
4x  
73763  
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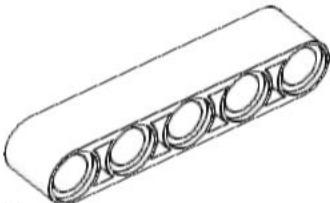
1x  
64179  
Light Bluish Gray



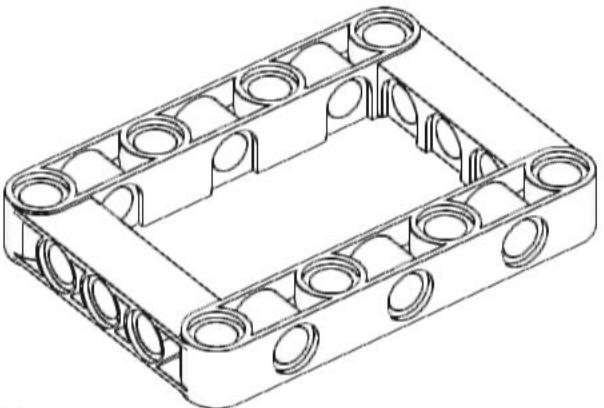
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4032  
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1x  
32523  
White



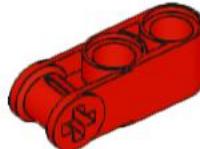
6x  
32316  
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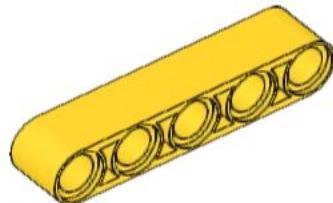
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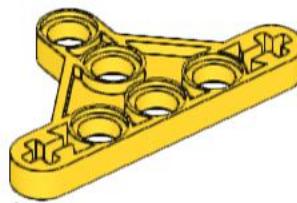
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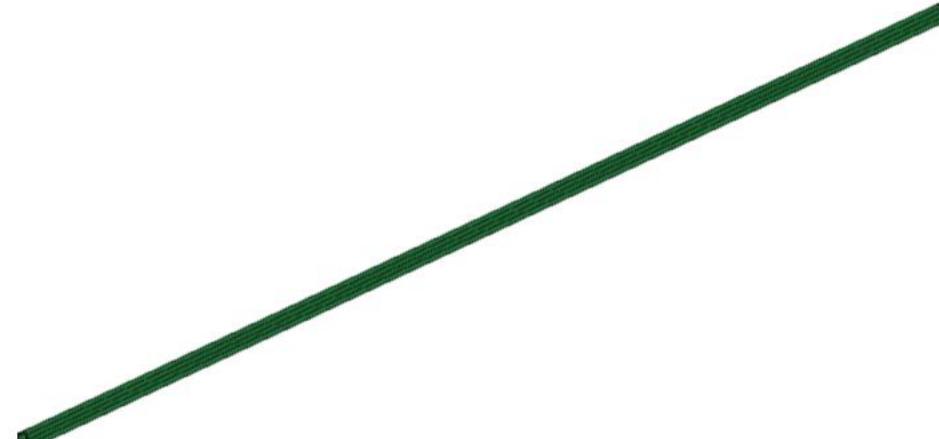
4x  
42003  
Red



1x  
32316  
Yellow



8x  
99773  
Yellow



4x  
50450  
Green



4x  
43857  
Blue

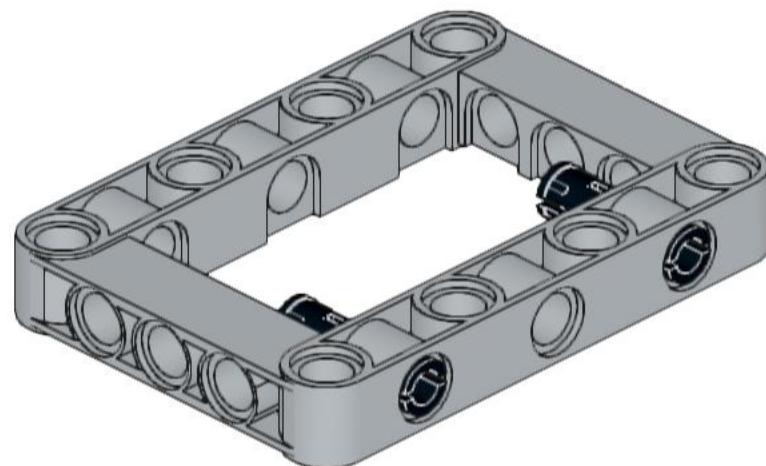
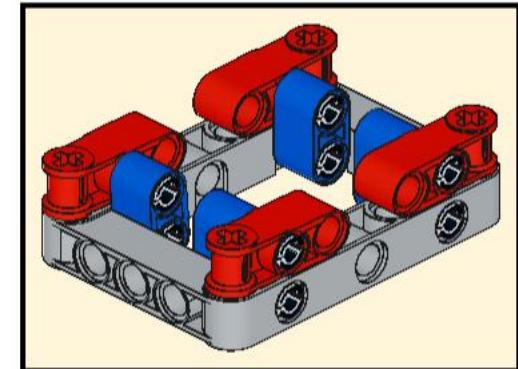
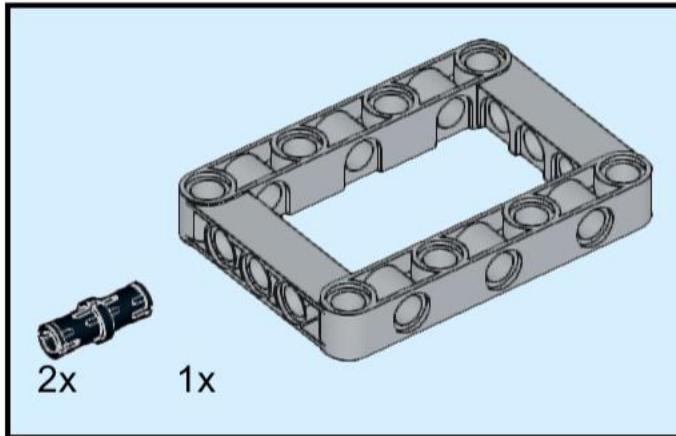


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32556  
Blue

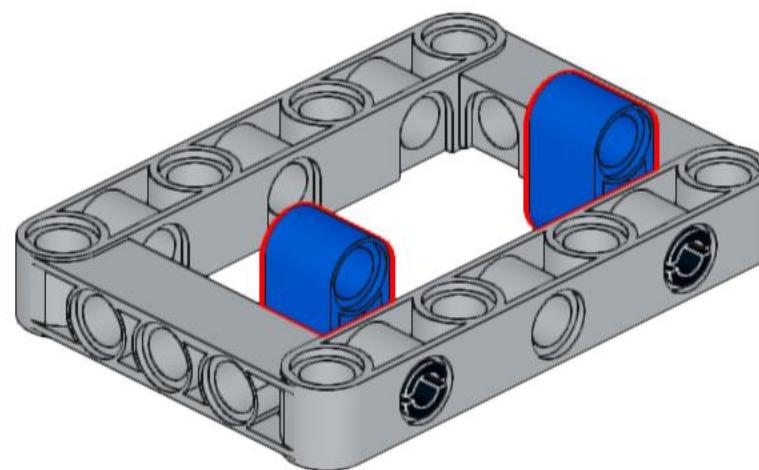
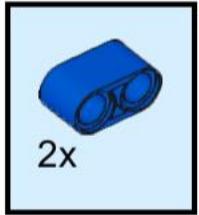


8x  
6558  
Blue

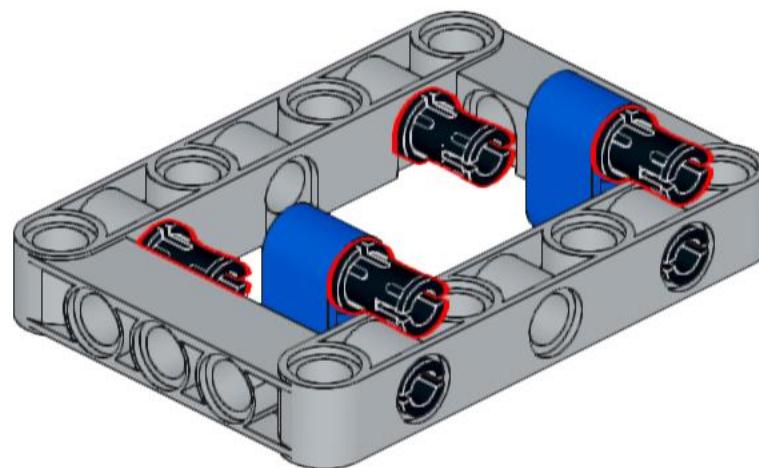
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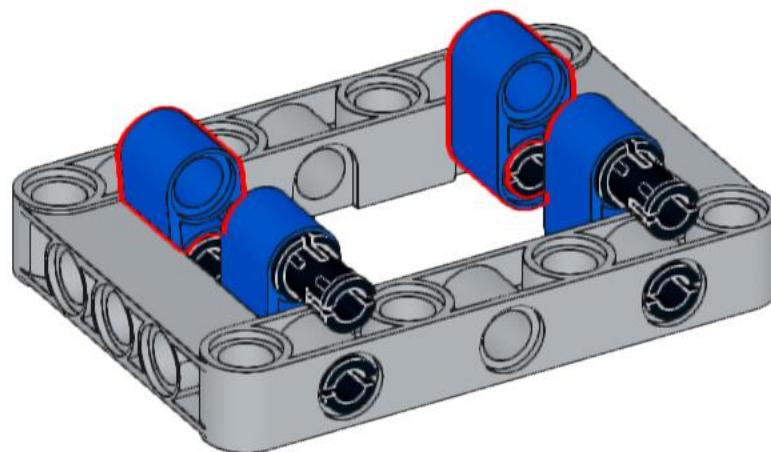
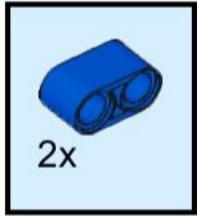
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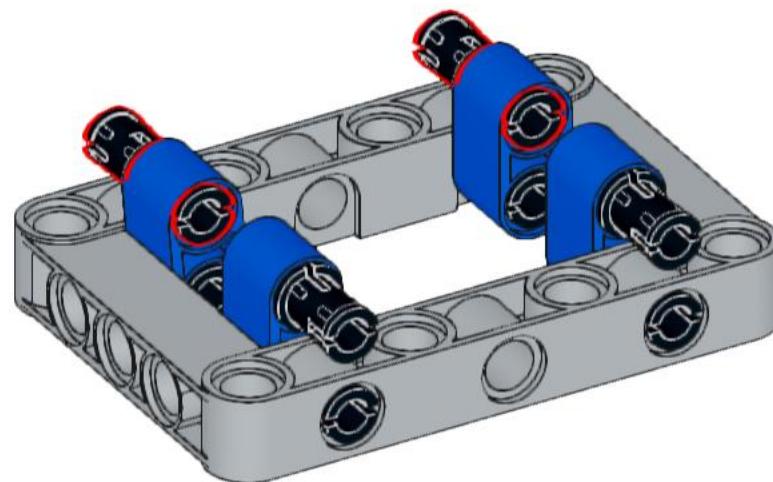
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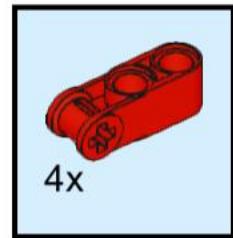
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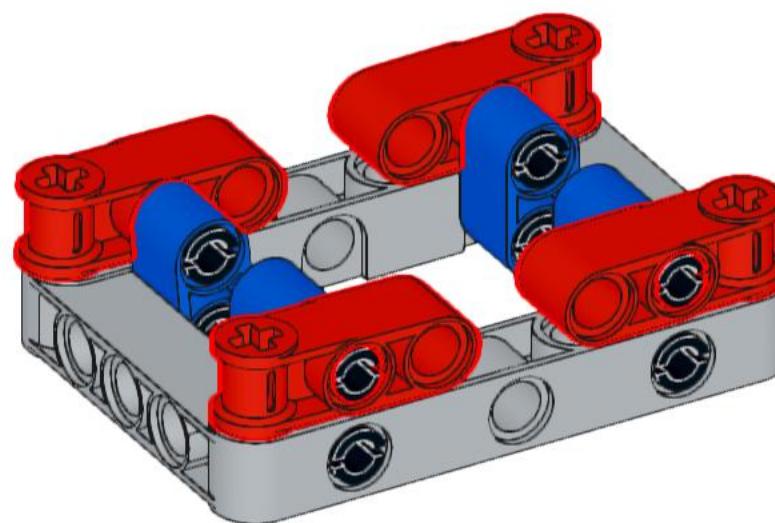
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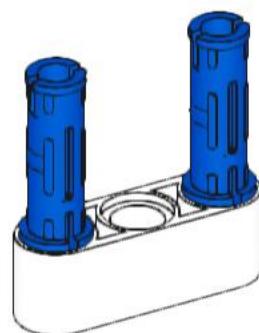
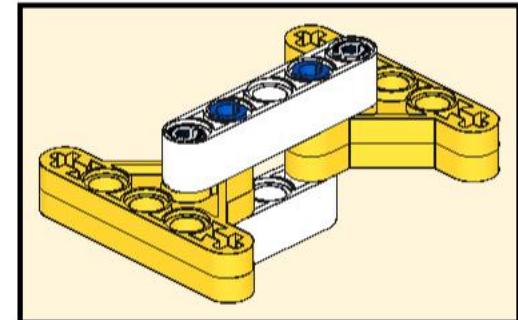
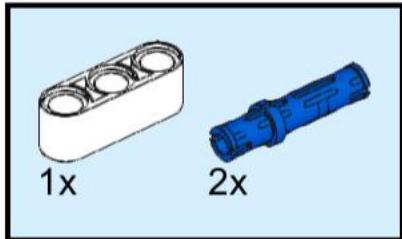
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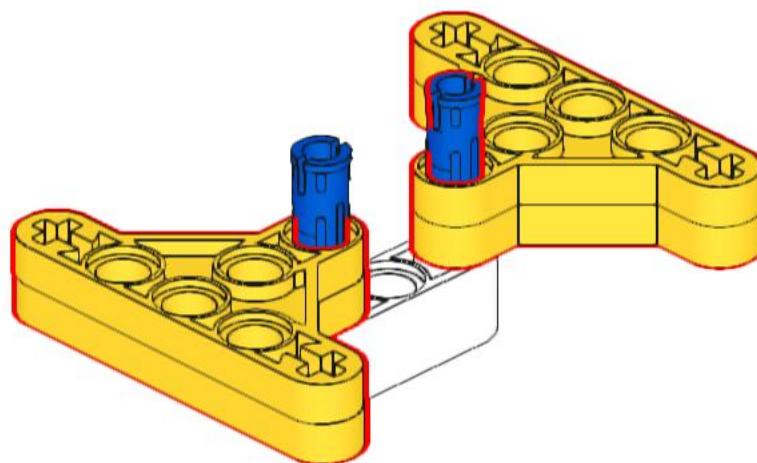
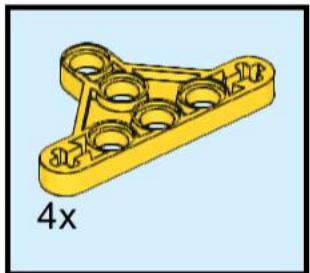
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7



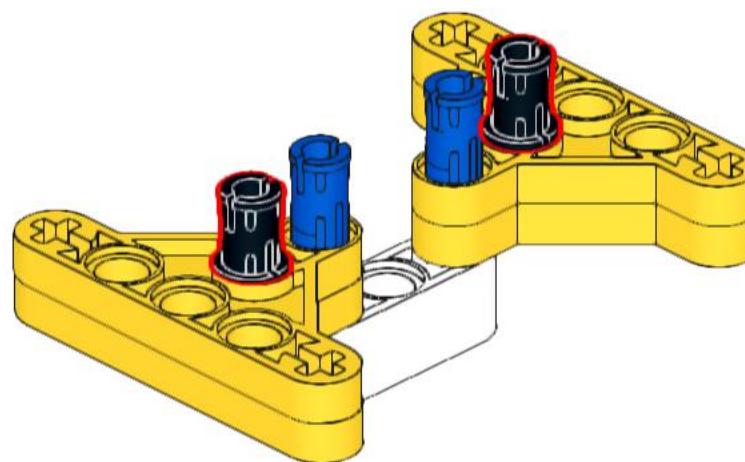
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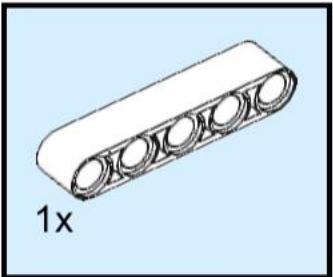
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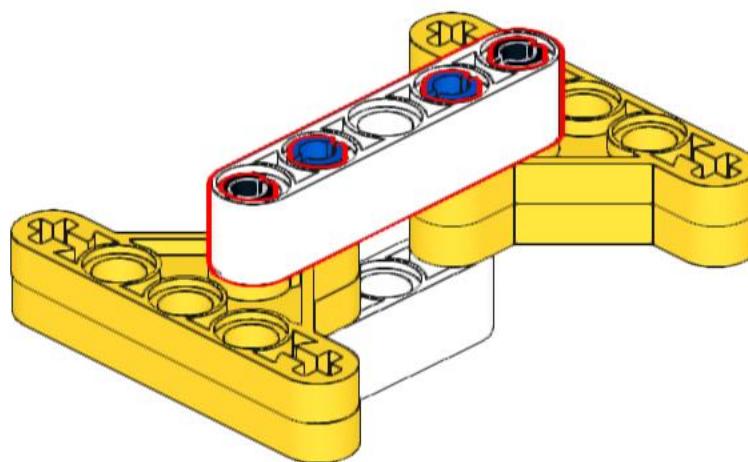
**2x**



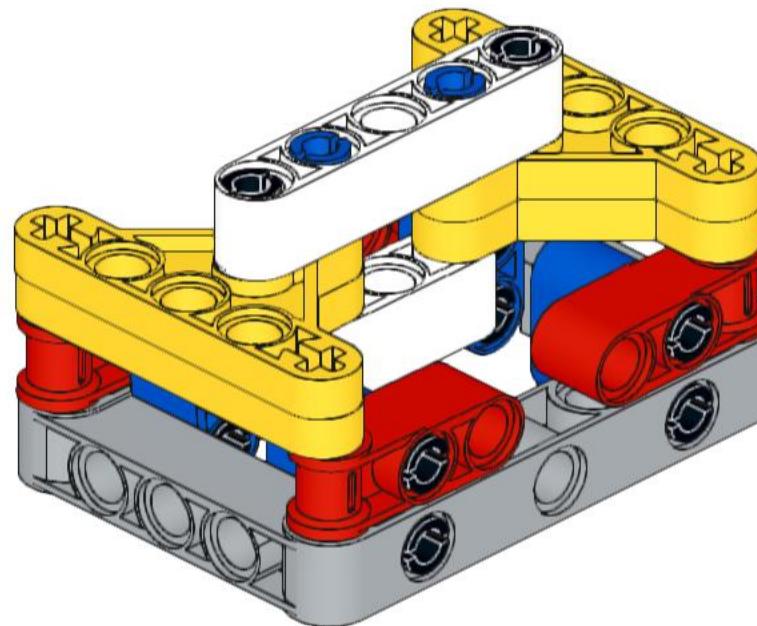
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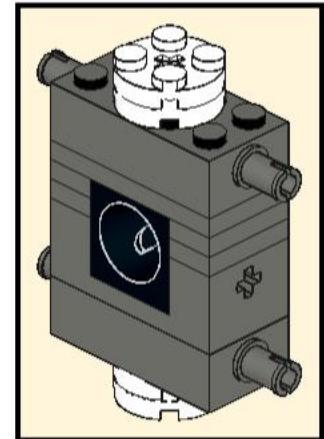
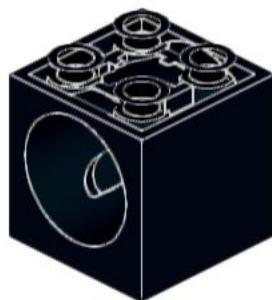
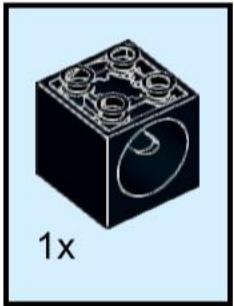
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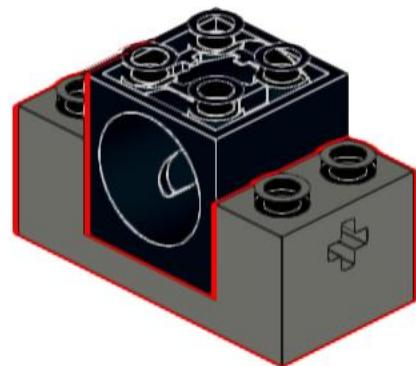
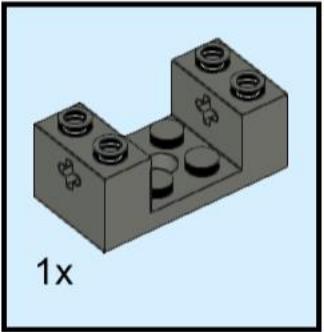
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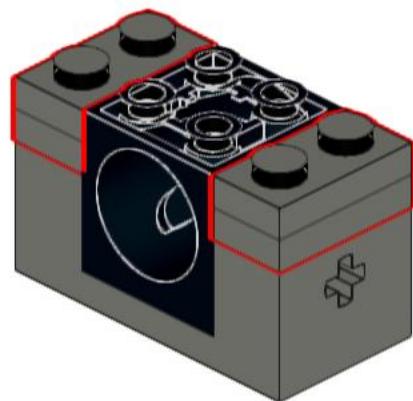
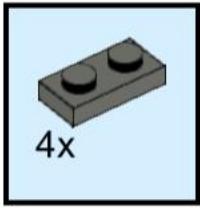
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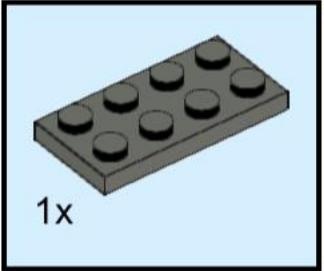
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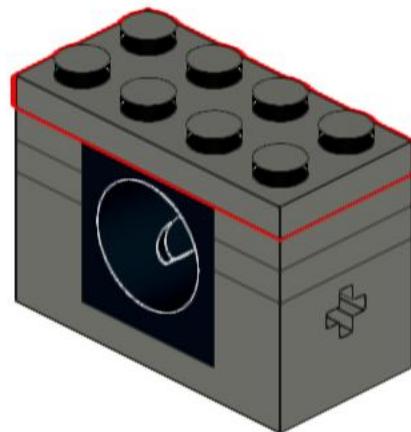
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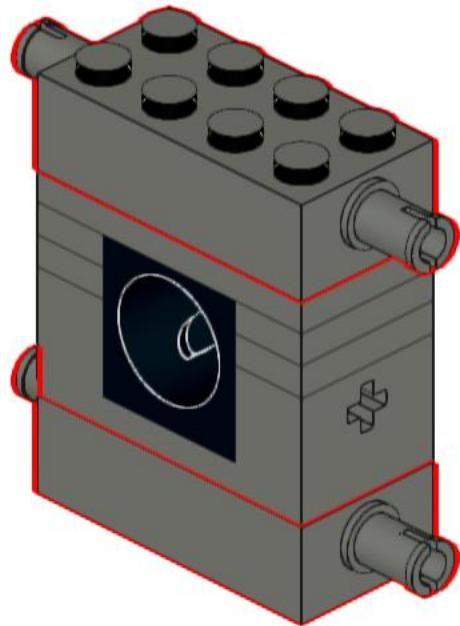
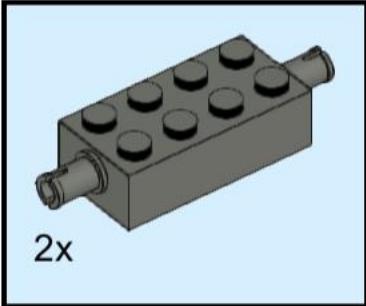
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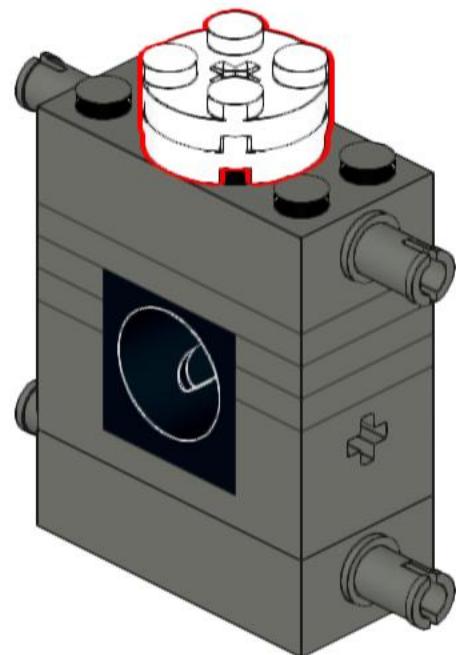
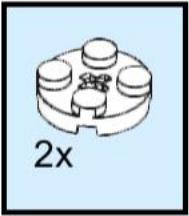
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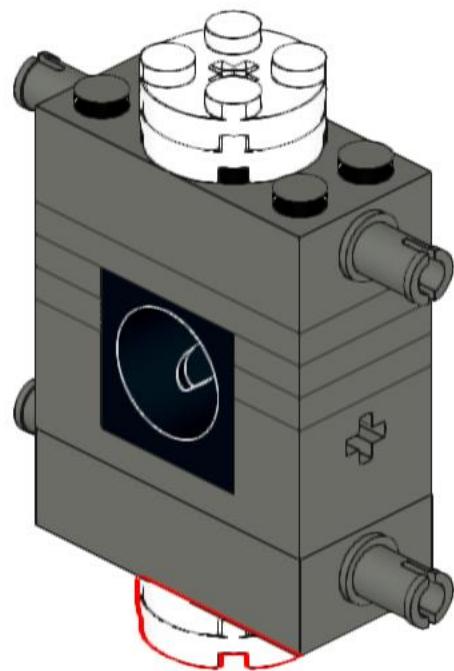
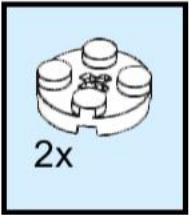
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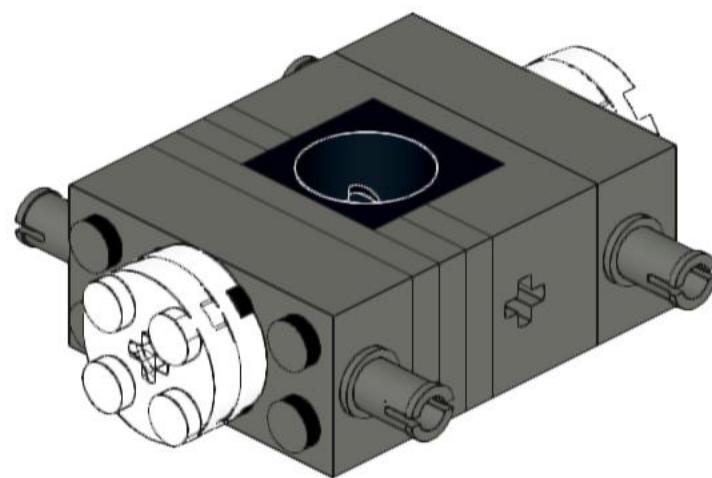
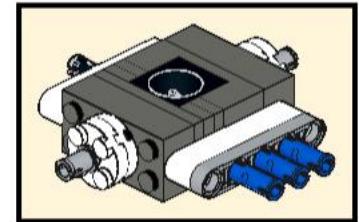
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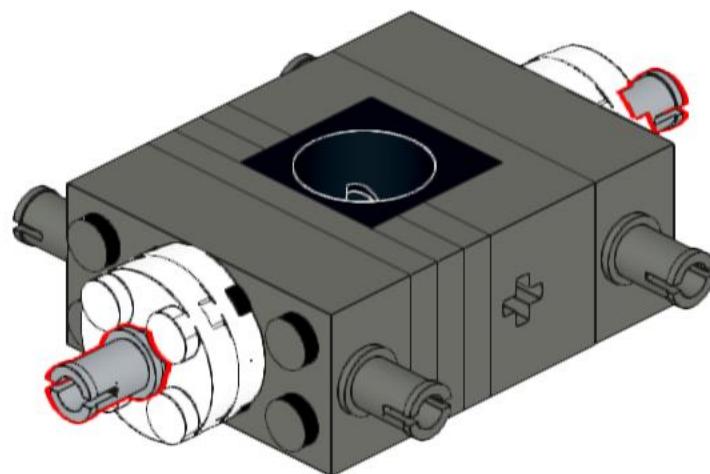
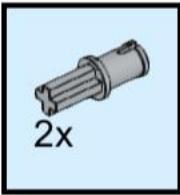
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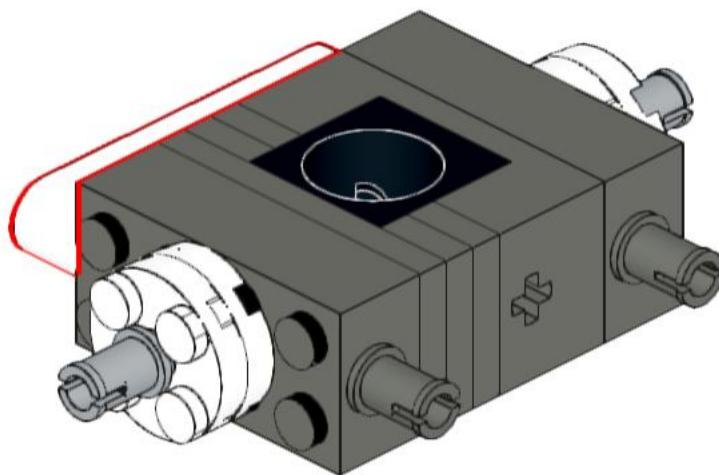
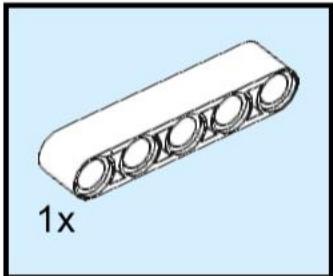
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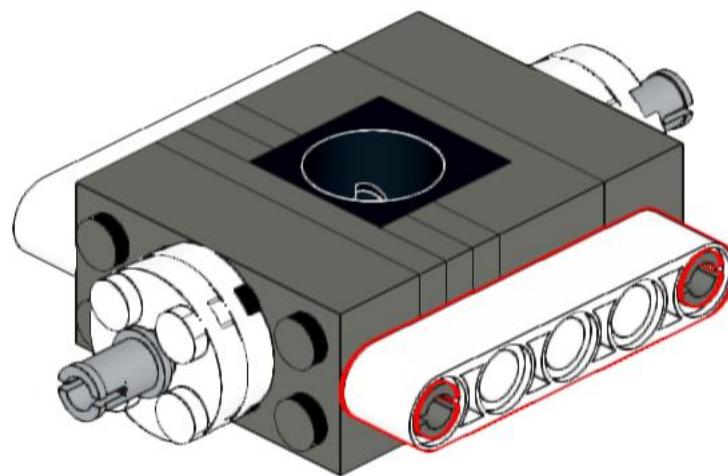
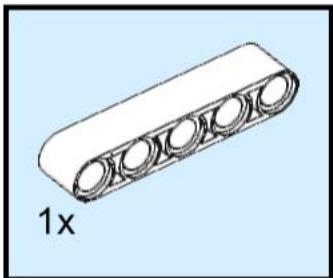
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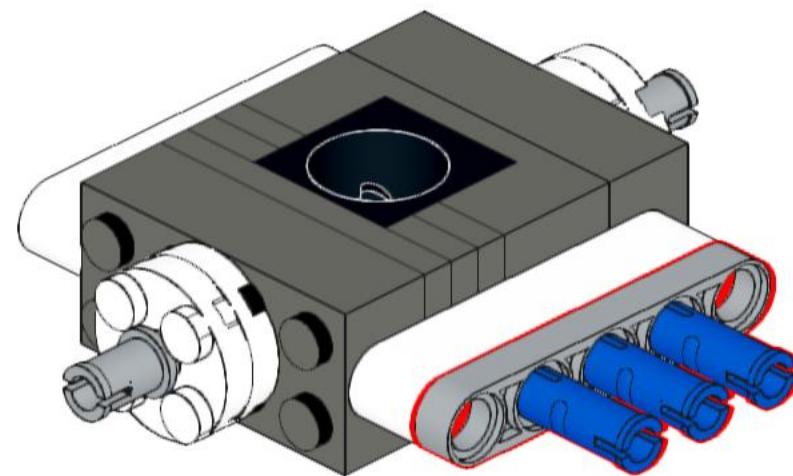
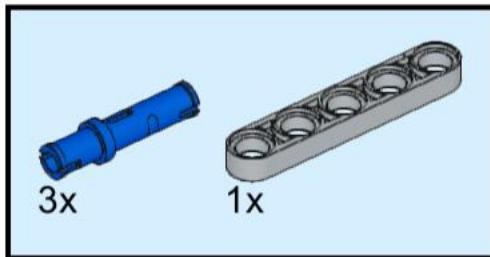
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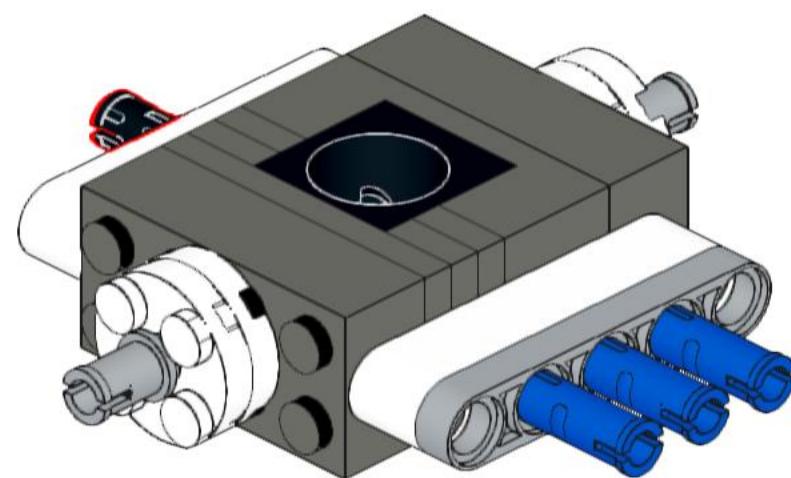
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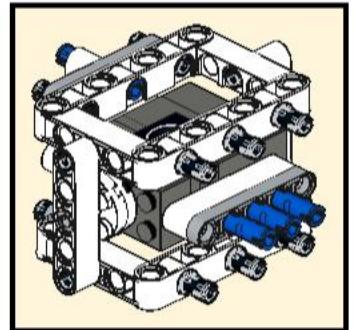
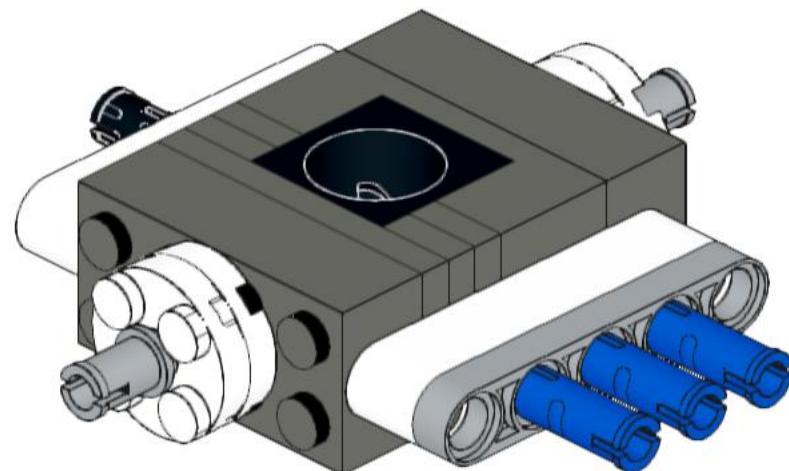
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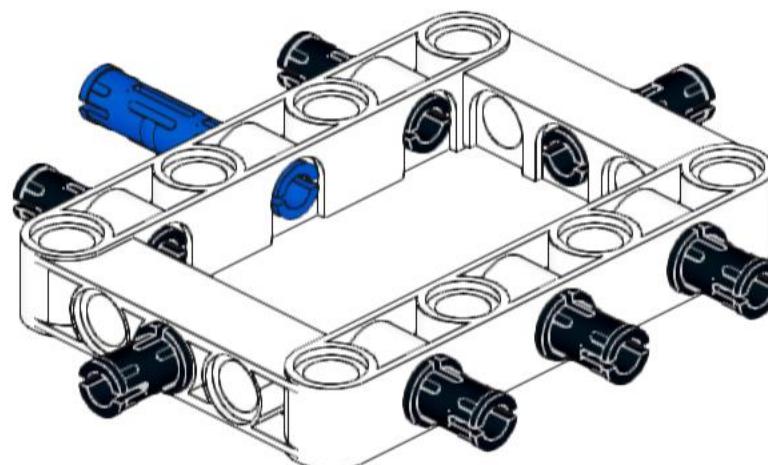
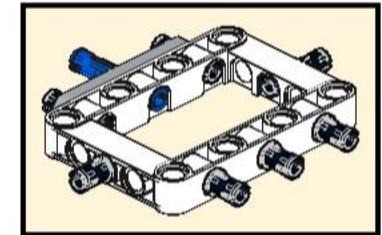
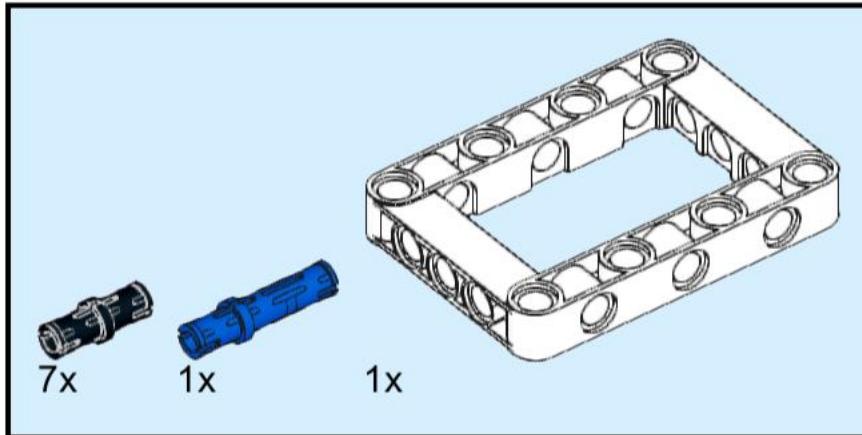
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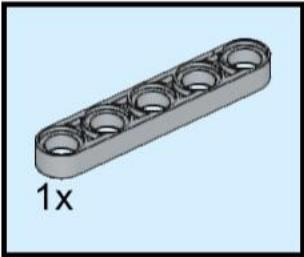
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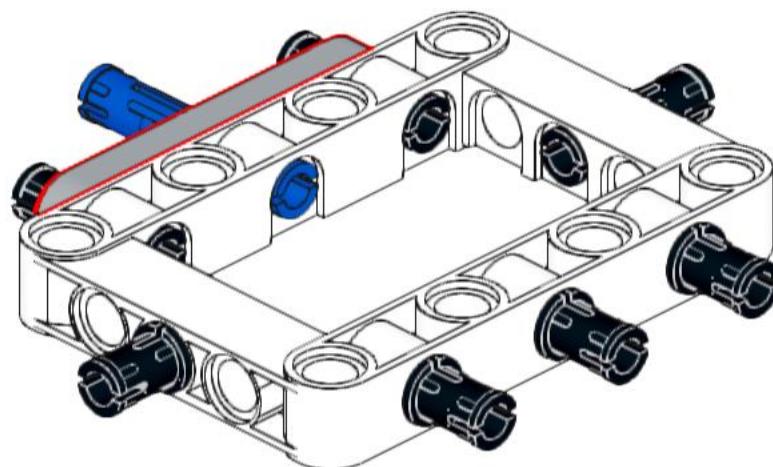
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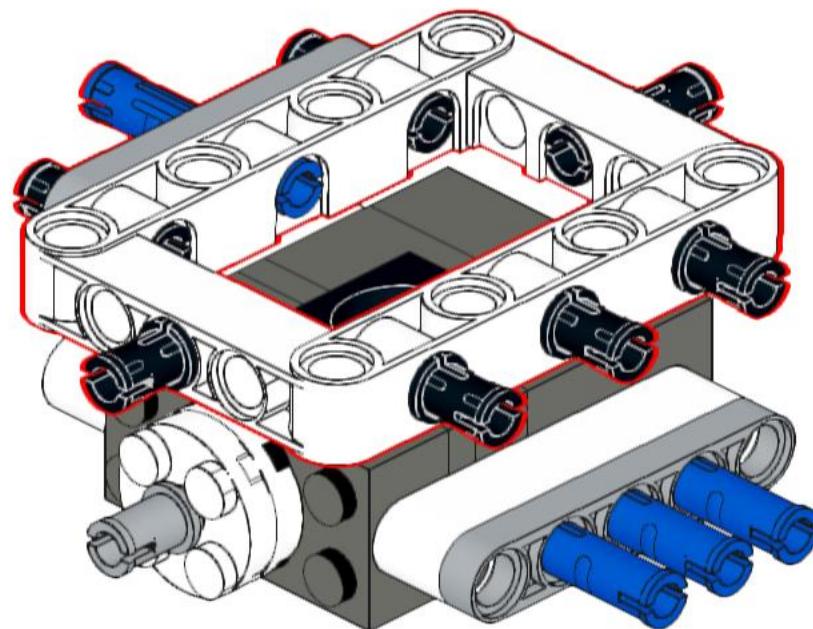
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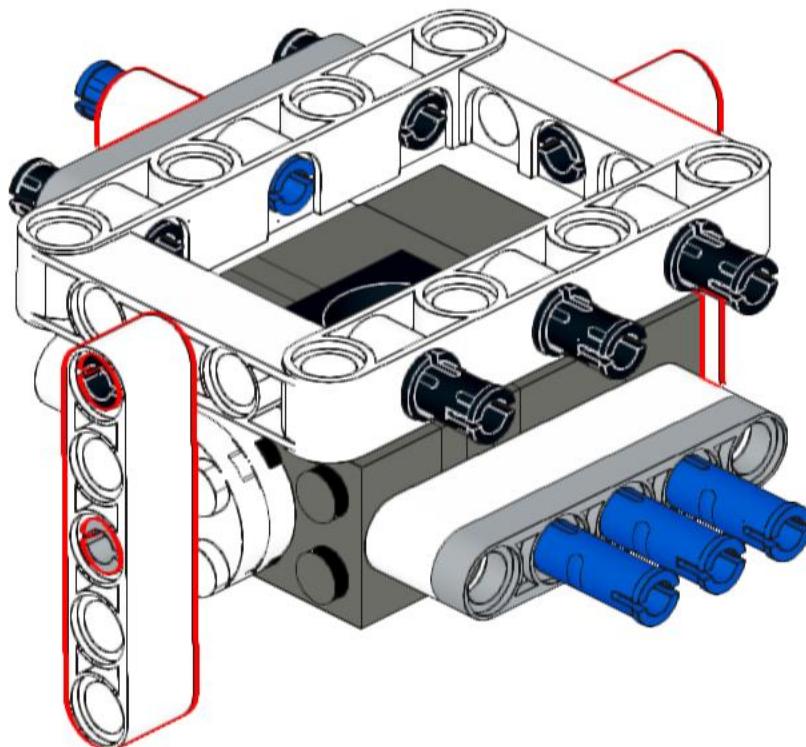
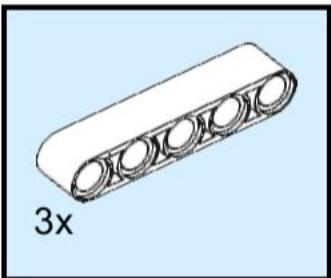
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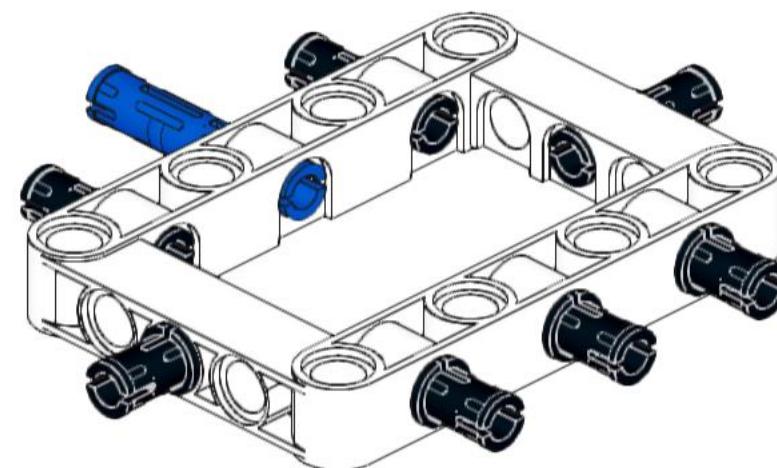
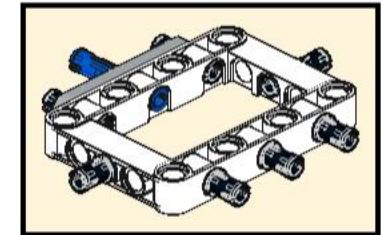
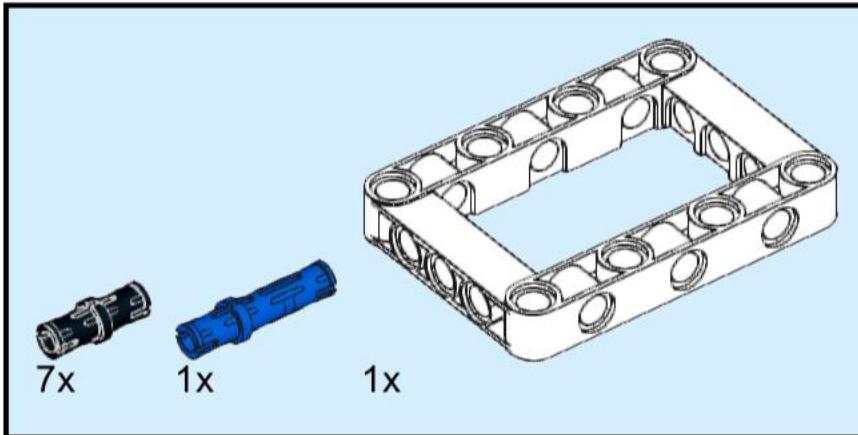
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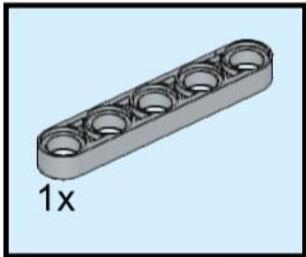
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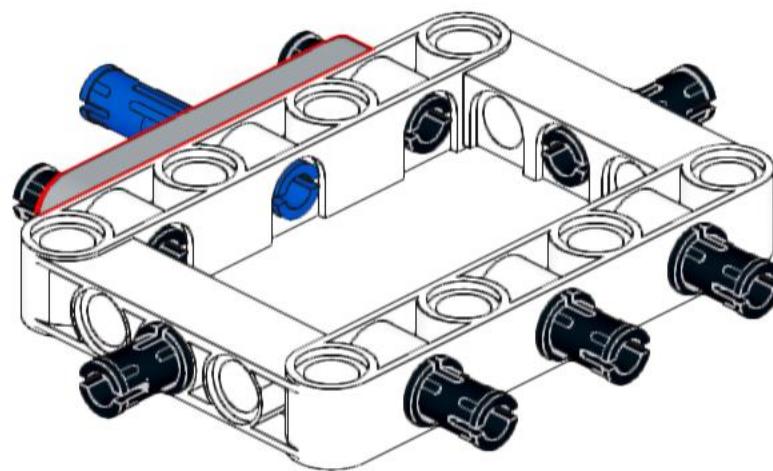
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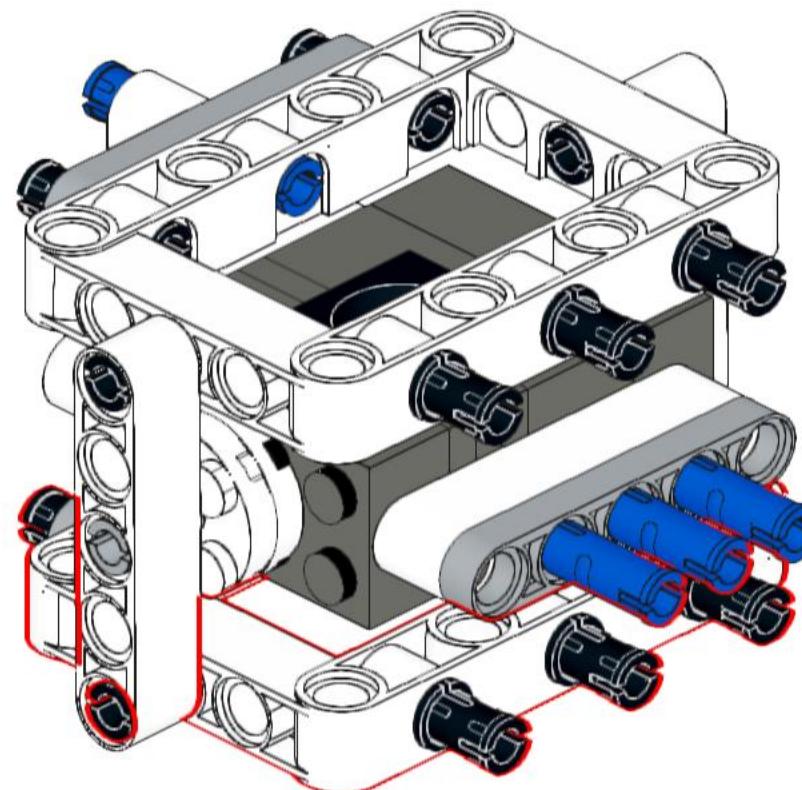
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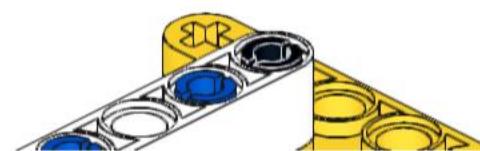
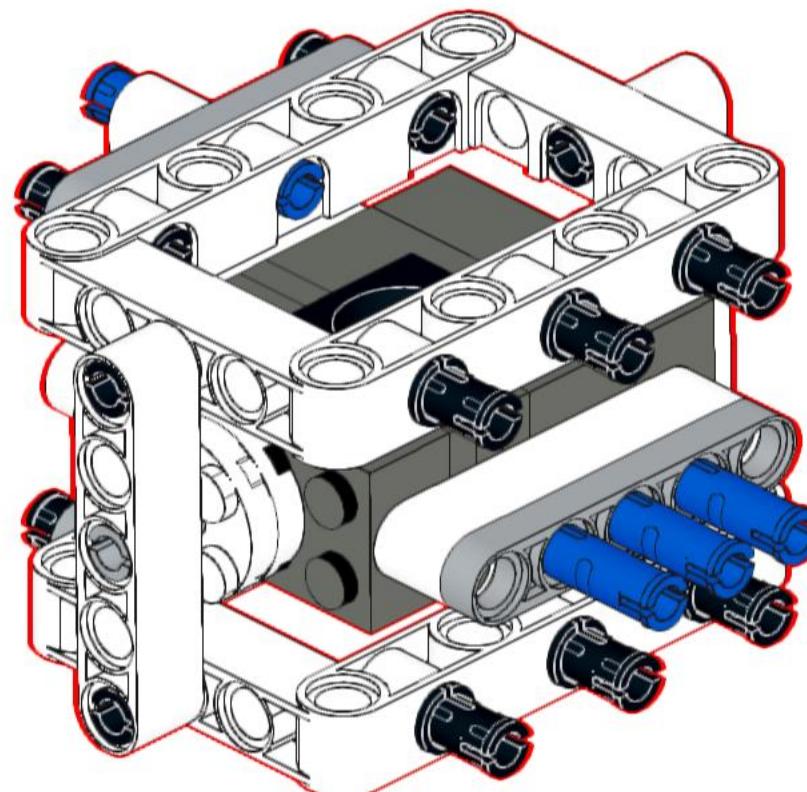
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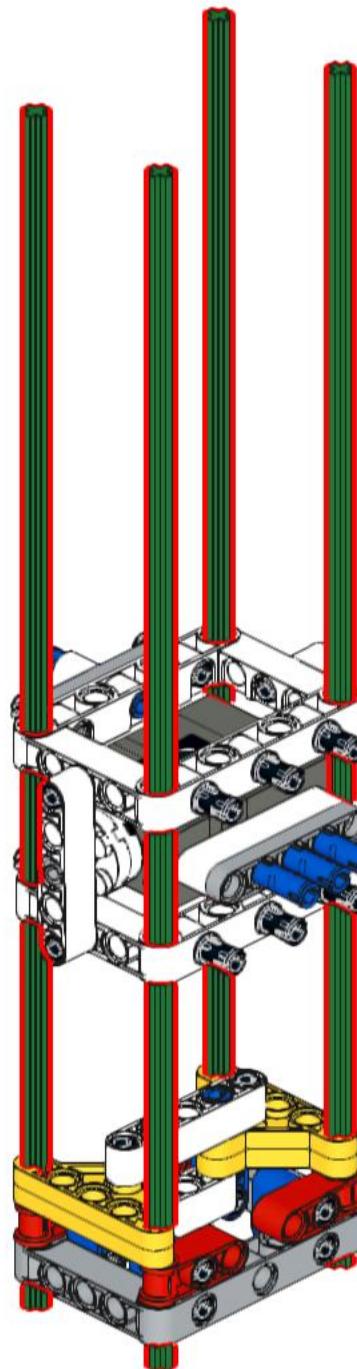
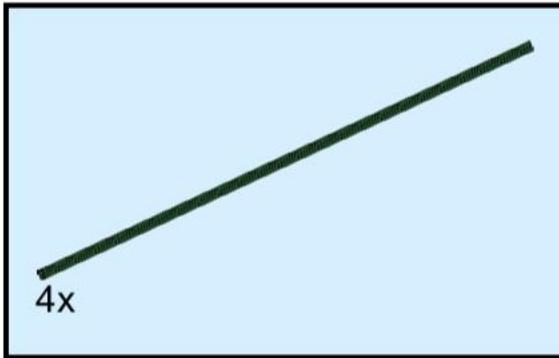
# 32



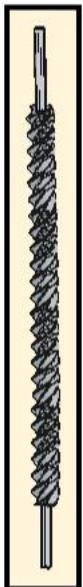
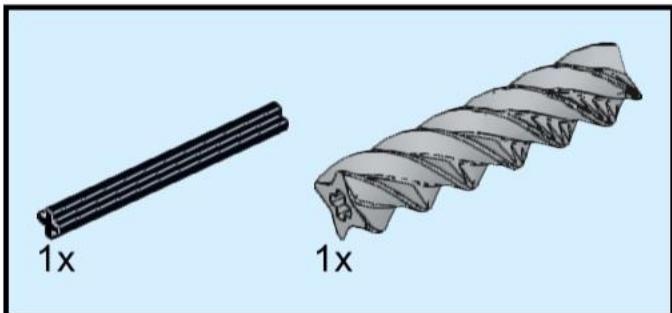
33



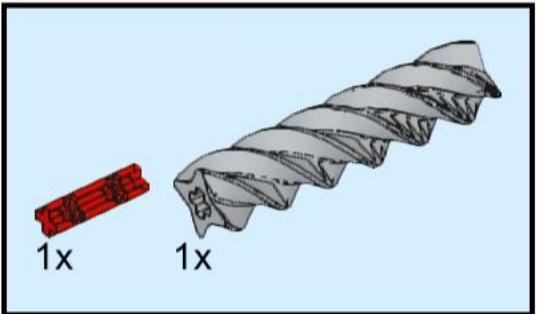
**34**



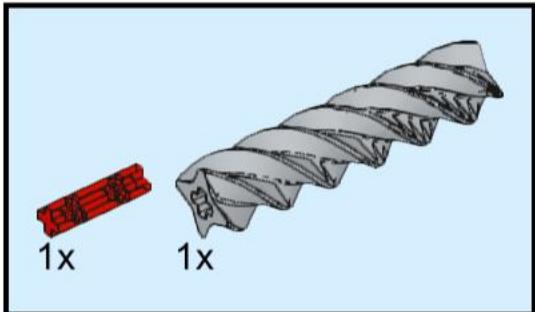
**35**



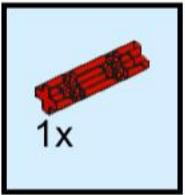
**36**



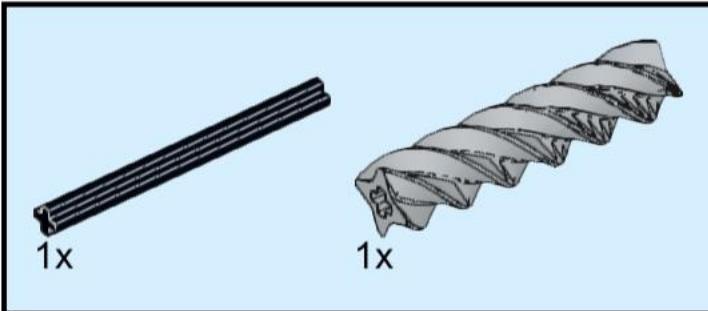
**37**



**38**



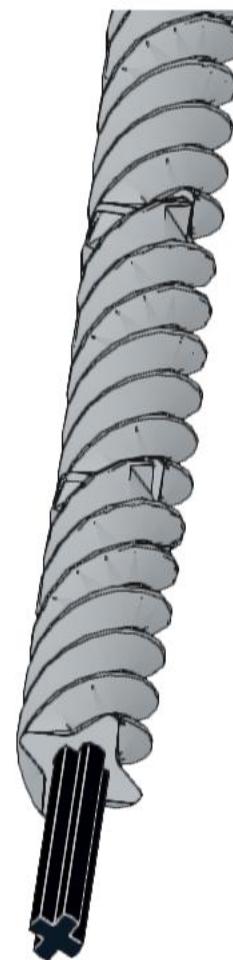
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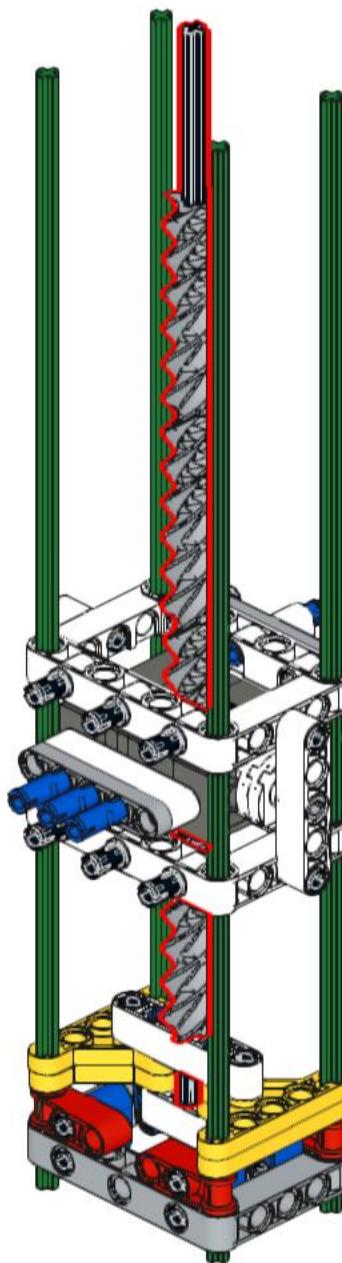
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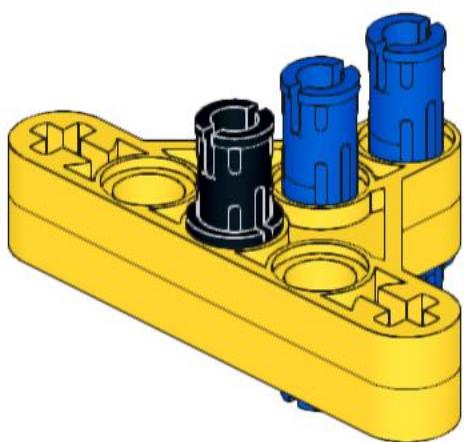
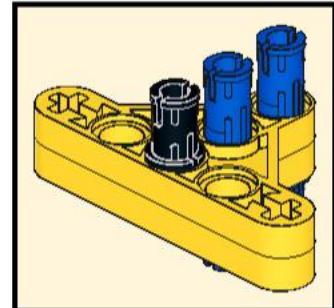
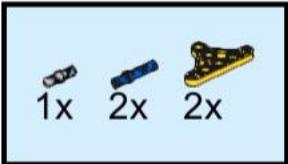
**41**



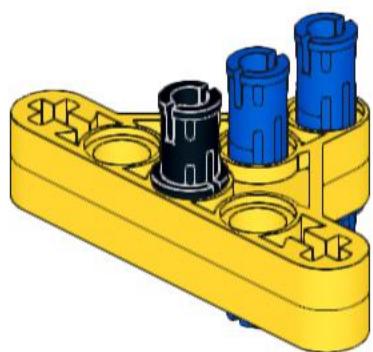
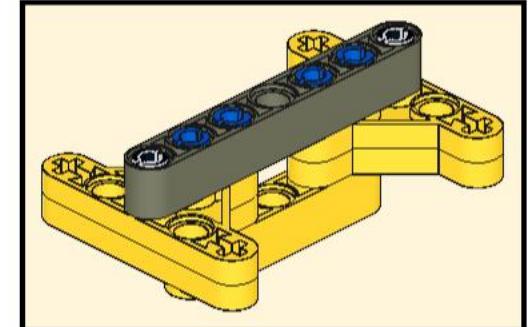
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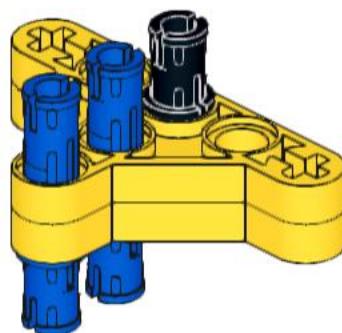
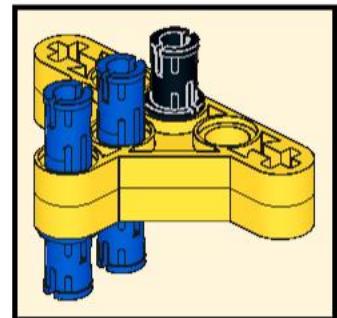
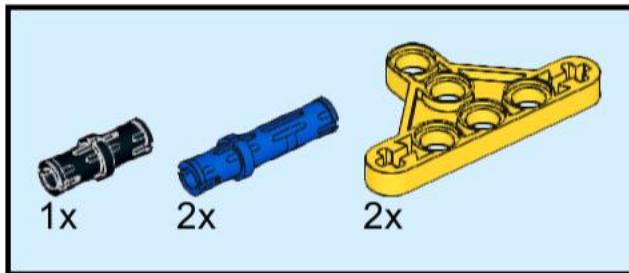
**43**



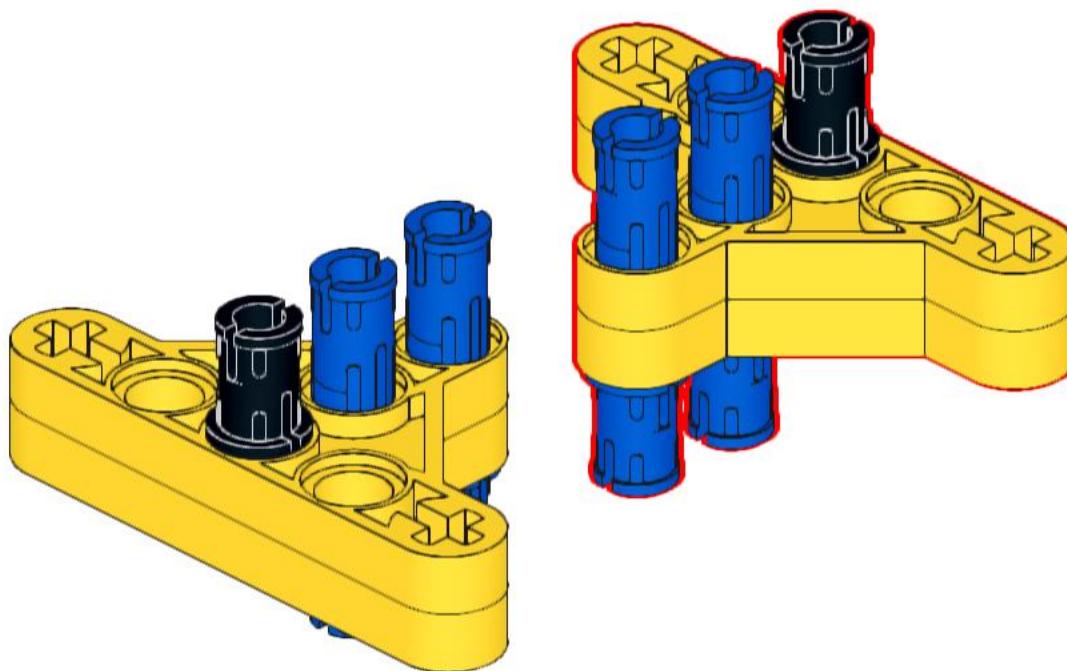
**44**



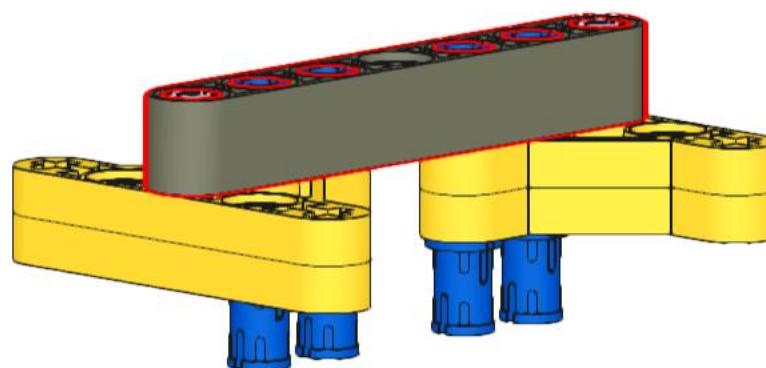
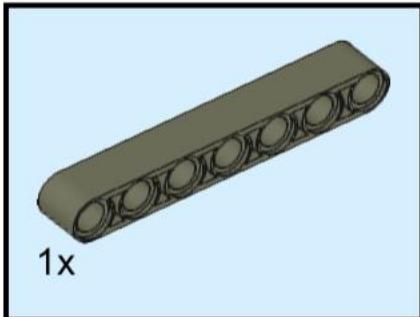
**45**



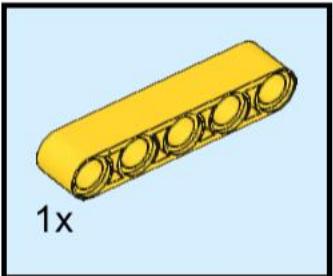
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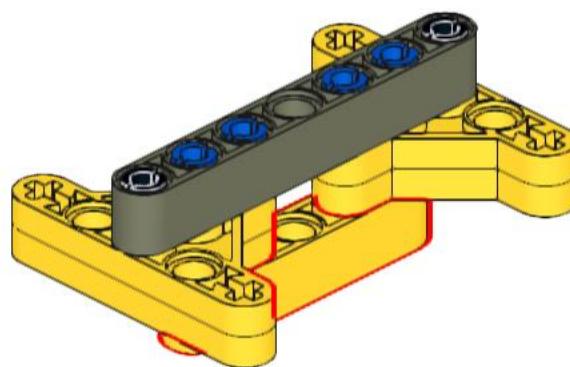
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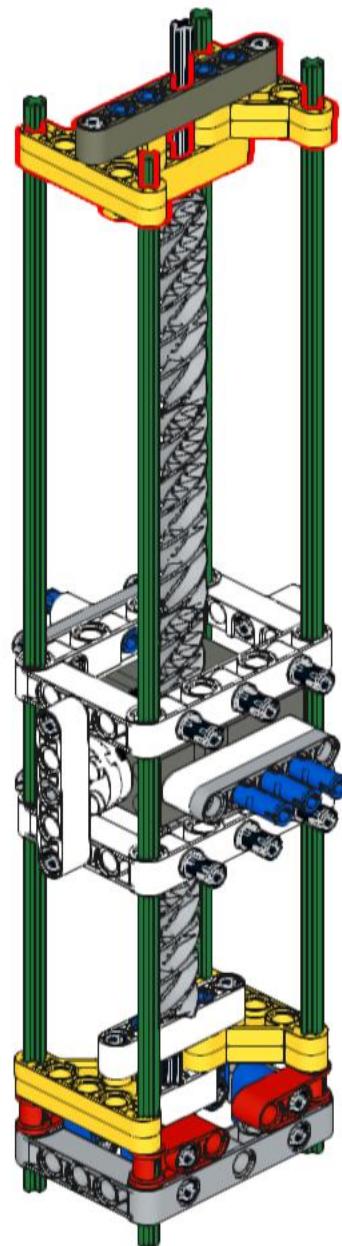
**48**



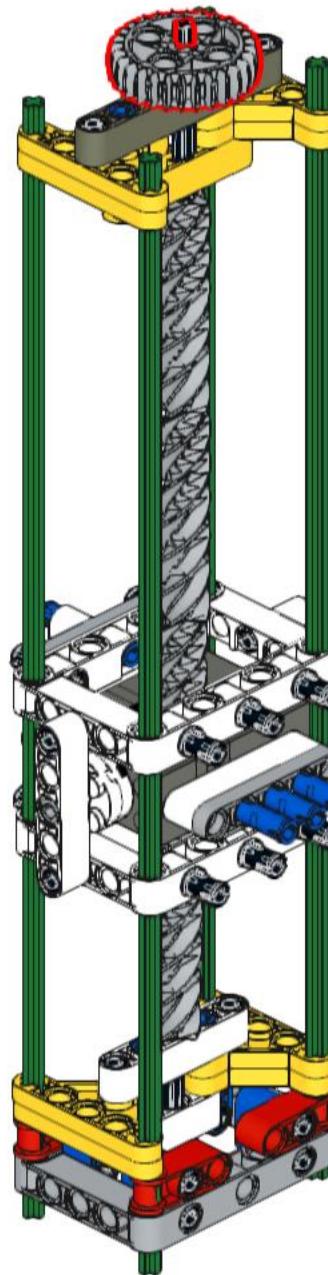
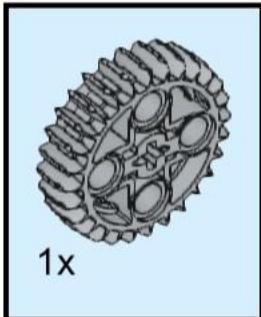
1x



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# 50



The end (bottom) black axle might need to be a different length depending on how you mount the attachment to the robot.