

## World Robot Olympiad 2024

### RoboMission – Elementary

#### **Additional Challenge “Eggs” for the International Final**

#### **October 8<sup>th</sup> 2024**

*It is not necessary to solve this extra challenge to participate in the International Final!*

Our chicken on the game field got two new eggs. Those eggs are placed on the two grey circles next to one yellow fence and next to the yellow/red vegetables on top of the game field and should be brought to the egg vending machine. Full points are awarded if the eggs are completely underneath the vending machine in the top-left corner of the game field.

 <b>Eggs</b>	 <b>Vending machine</b> <b>Update (8<sup>th</sup> of October):</b> Will be fixed on the mat.
 <b>Placement of eggs</b>	 <b>Placement of vending machine</b>

Additional scoring lines will be added to the scoring sheet:

<b>Eggs</b>			
Egg is touching the dark orange area inside the vending machine		<b>7</b>	<b>14</b>
Egg is only touching the light orange area around the machine		3	
<b>New maximum score</b>			<b>156</b>

## Scoring Interpretation



3 points (touching light orange area)



7 points (touching dark orange area)



10 points (one touching light one touching  
dark orange area)



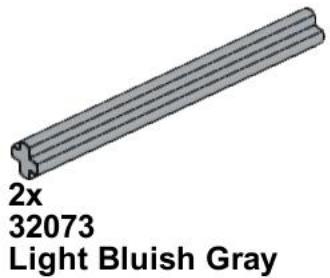
14 points  
(both eggs touching dark orange area)

# New Full Scoring Sheet

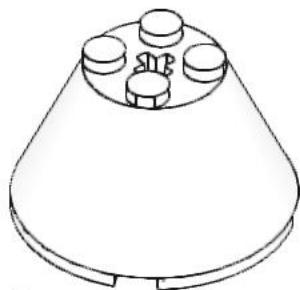
Team name: \_\_\_\_\_

Round: \_\_\_\_\_

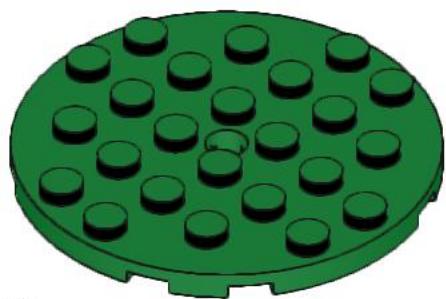
Tasks	Each	Max.	#	Total
<b>Collect ripe and rotten vegetables</b>				
Red vegetable completely in market area	<b>11</b>	<b>44</b>		
Red vegetable partly in the market area	4			
Yellow vegetable completely in the compost area	<b>11</b>	<b>44</b>		
Yellow vegetable partly in the compost area	4			
<b>Water thirsty vegetables and prepare farming</b>				
Water element is touching the green square around a green vegetable and the green vegetable is still touching the green square as well	<b>10</b>	<b>30</b>		
Earth block is no longer touching the green square area	<b>3</b>	<b>9</b>		
<b>Bonus for Fences &amp; Chicken</b>				
Chicken is not damaged or moved		<b>3</b>		
Fence is not damaged or moved	<b>3</b>	<b>12</b>		
<b>International Final: Eggs</b>				
Egg is touching the dark orange area inside the vending machine	<b>7</b>	<b>14</b>		
Egg is only touching the light orange area around the machine	3			
<b>Maximum Score</b>		<b>156</b>		
<b>Surprise Rule</b>				
<b>Total Score in this run</b>				
<b>Time in full seconds</b>				



2x  
32073  
Light Bluish Gray

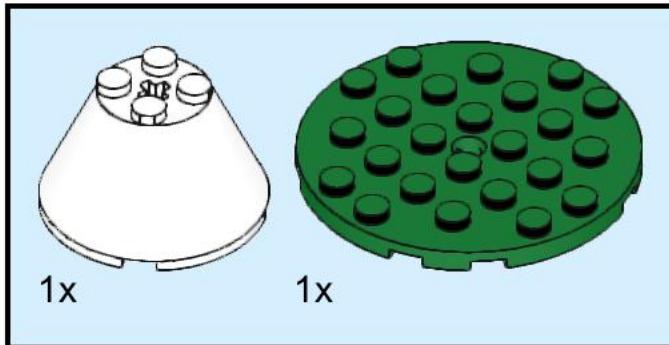


4x  
3943b  
White

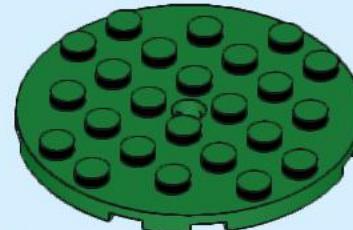


2x  
11213  
Green

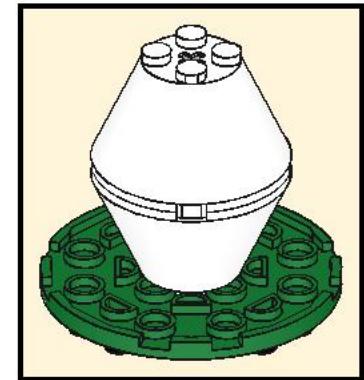
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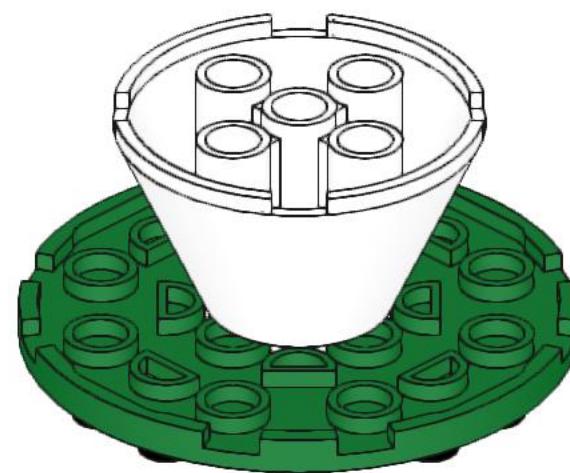
1x



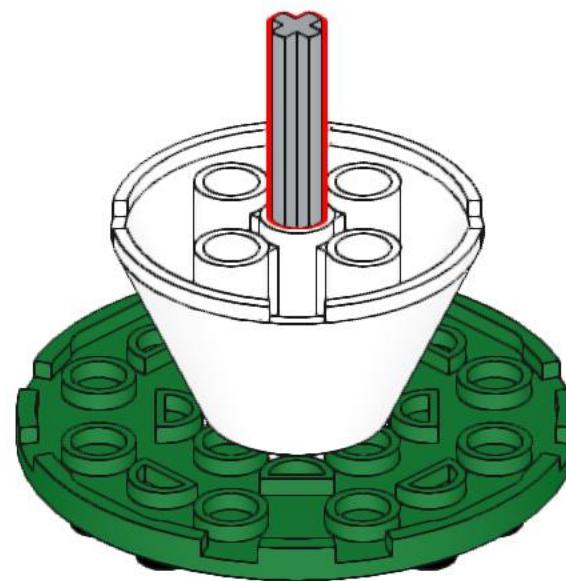
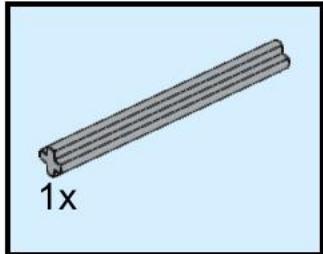
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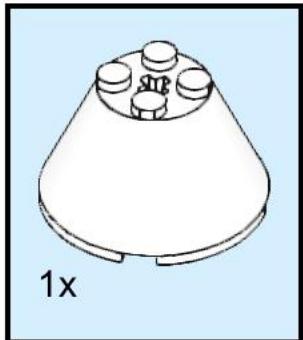
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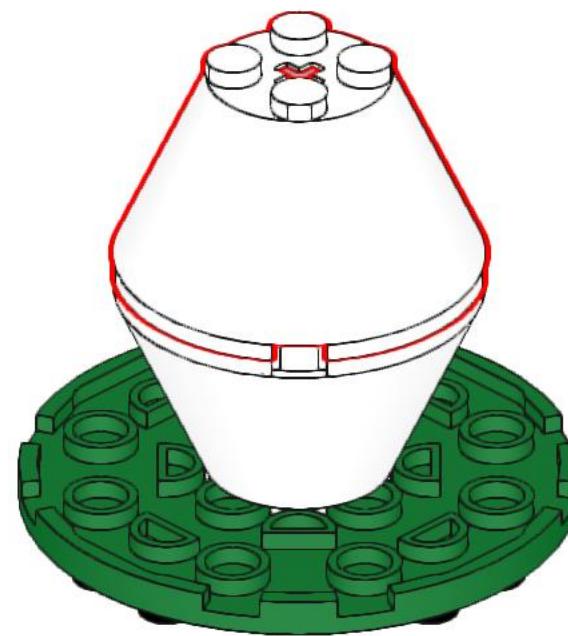
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**3**

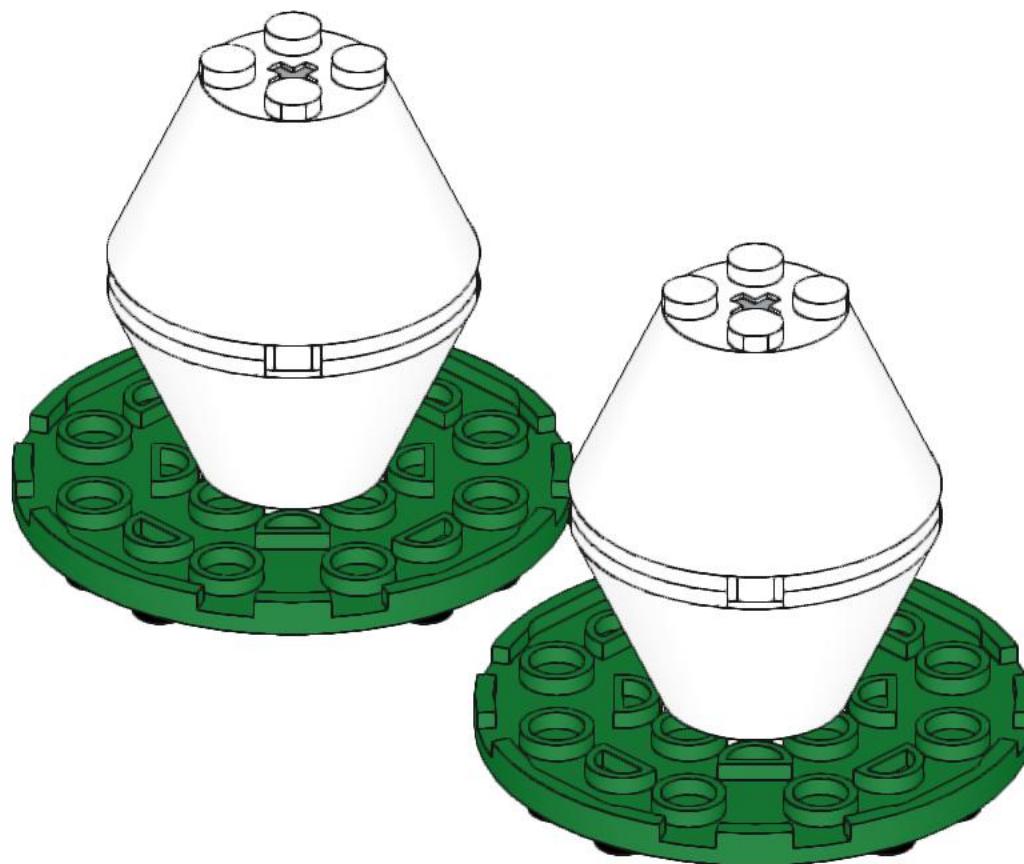


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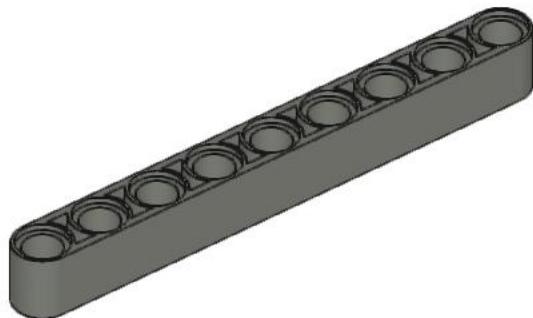
**2x**

**4**

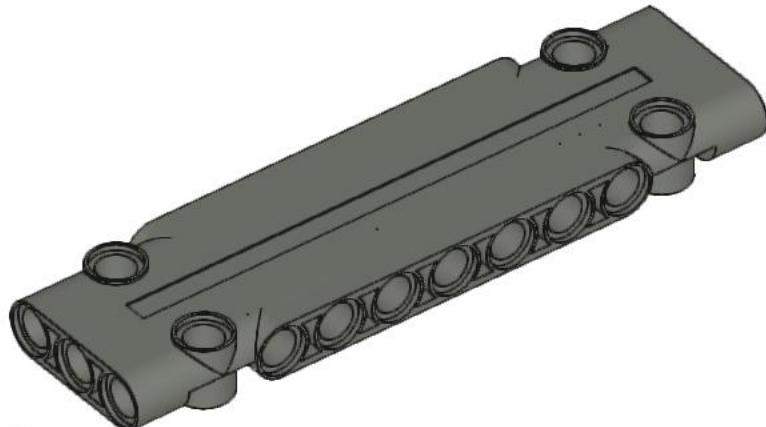




4x  
18651  
Black



4x  
40490  
Dark Bluish Gray



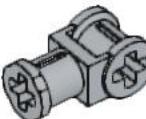
4x  
15458  
Dark Bluish Gray



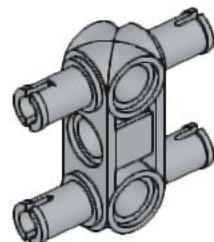
2x  
3713  
Light Bluish Gray



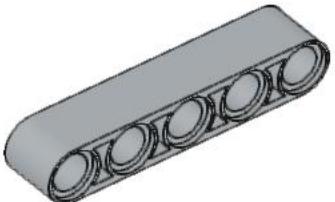
4x  
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Light Bluish Gray



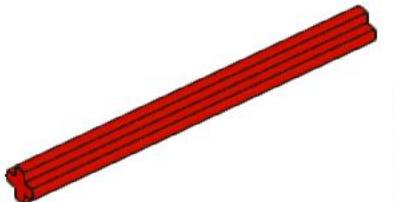
8x  
32039  
Light Bluish Gray



2x  
48989  
Light Bluish Gray



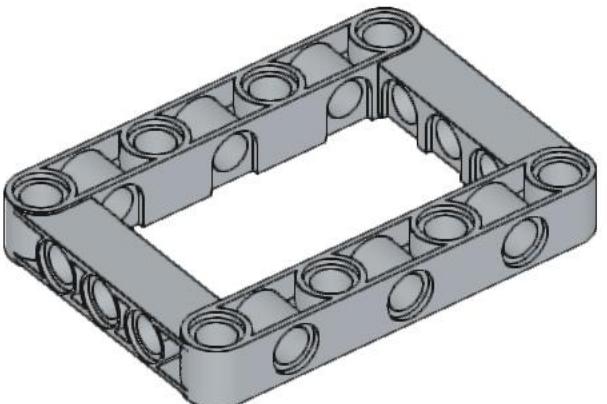
2x  
32316  
Light Bluish Gray



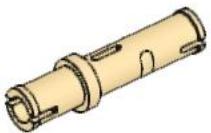
2x  
3706  
Red



2x  
6558  
Blue



2x  
64179  
Light Bluish Gray



4x  
32556  
Tan



8x  
4265c  
Yellow



8x  
32034  
Yellow

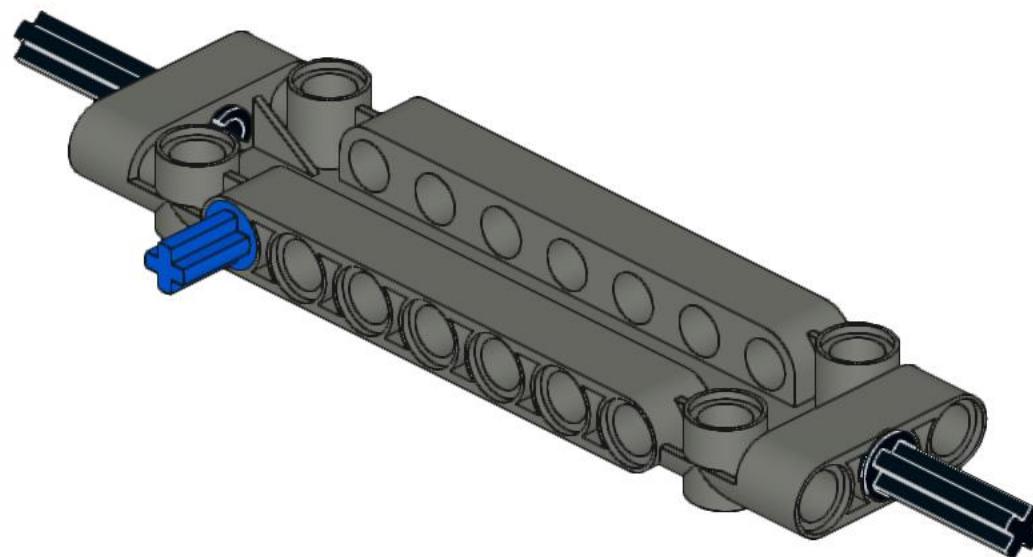
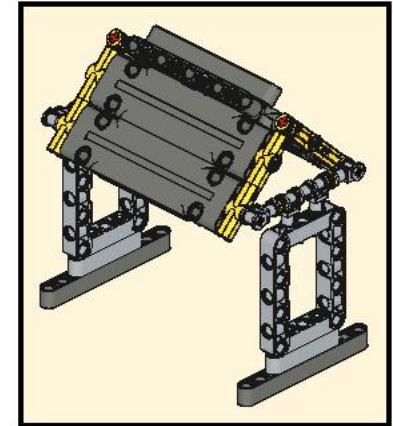
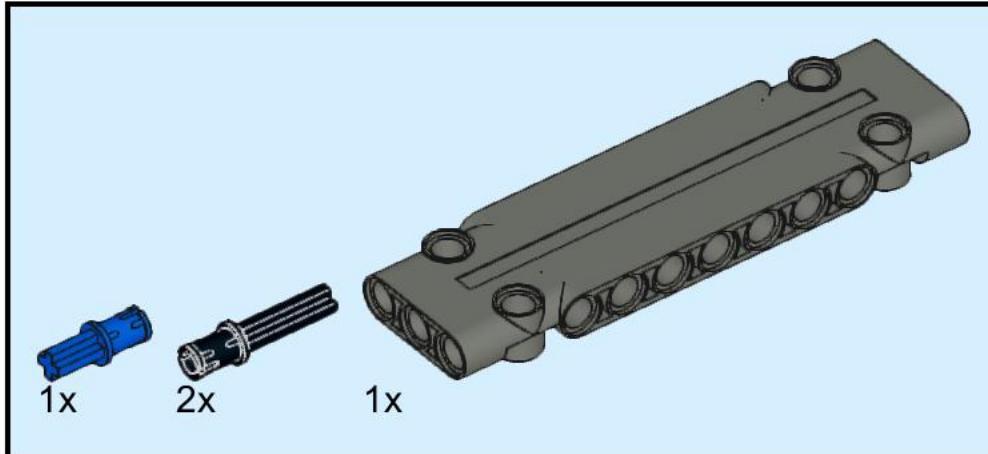


6x  
32062  
Red

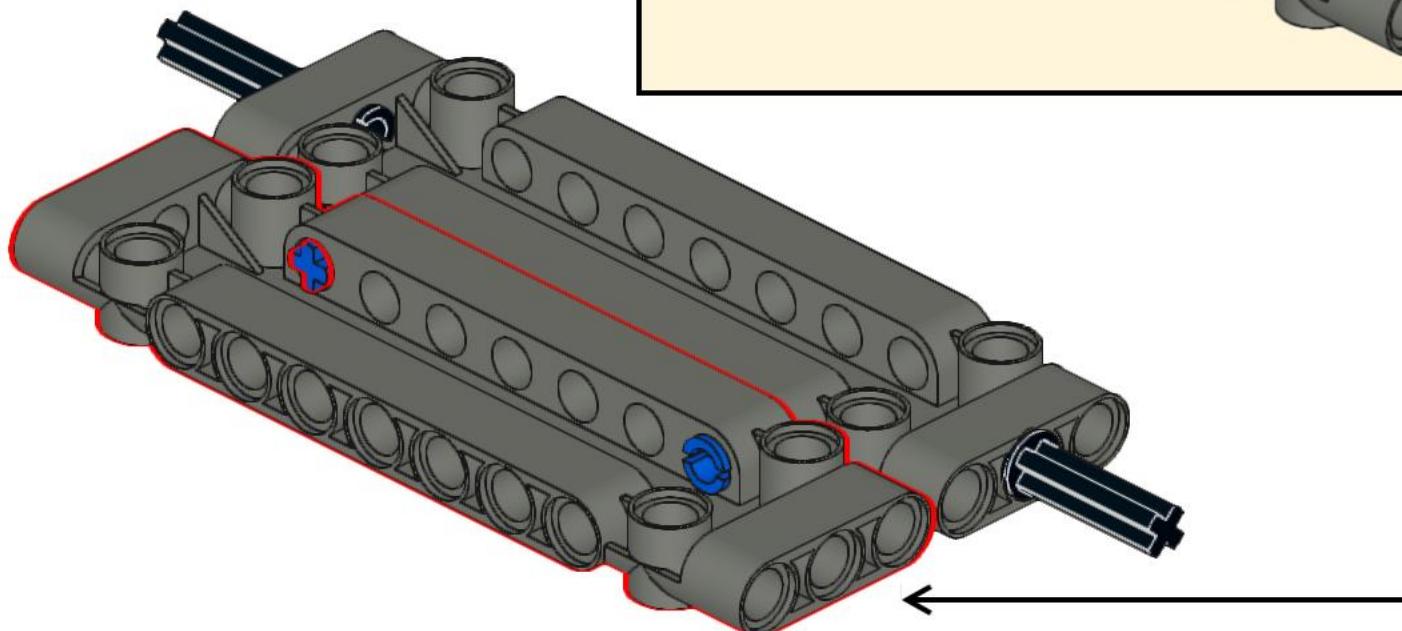
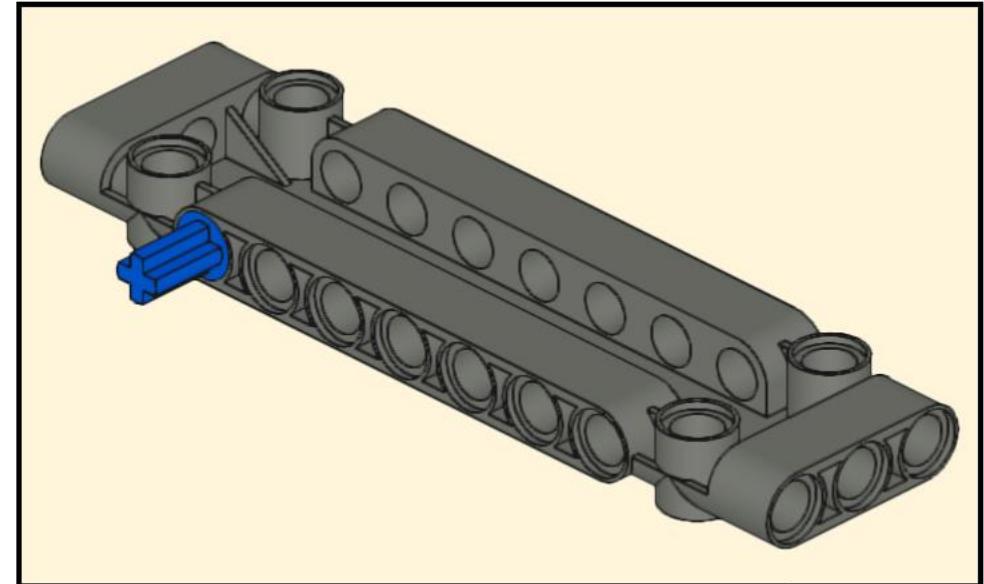
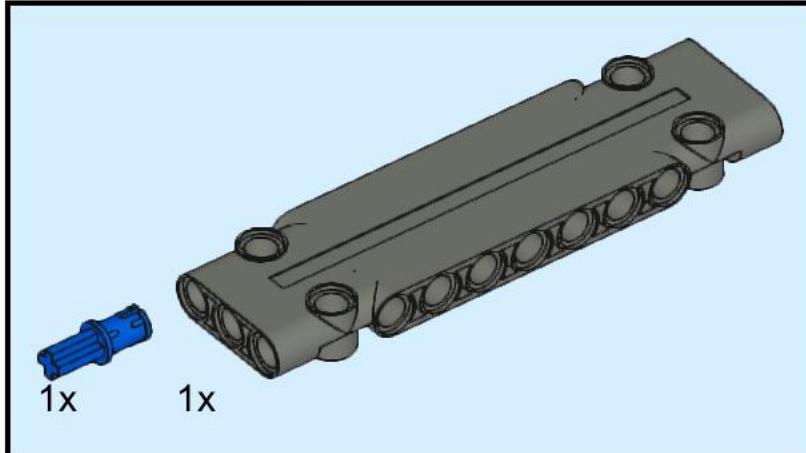


8x  
43093  
Blue

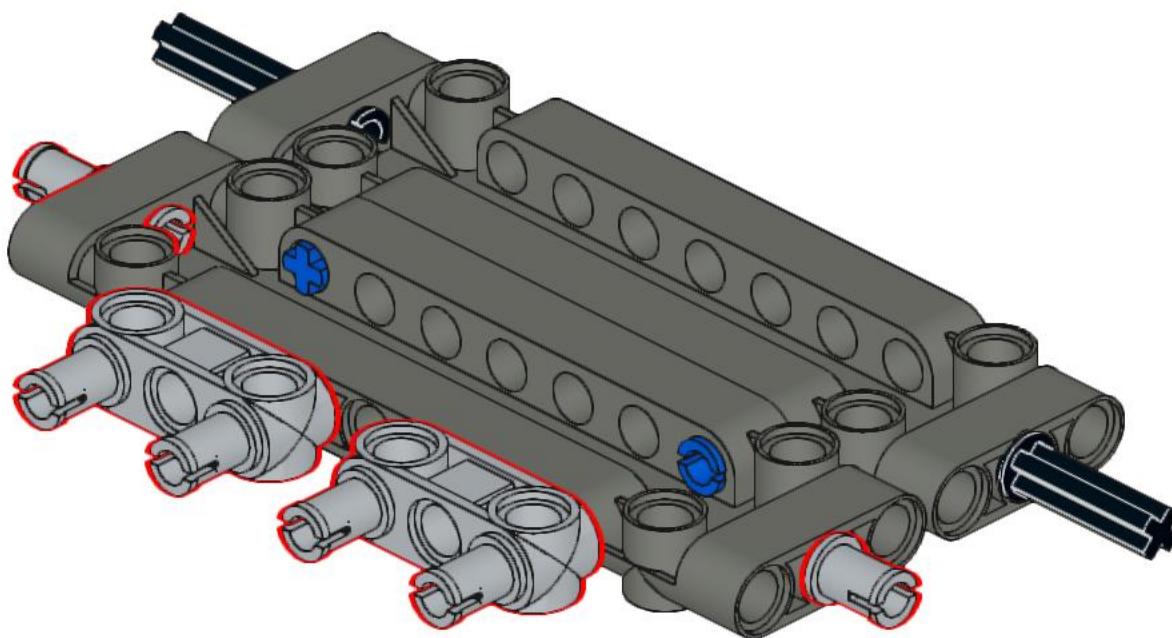
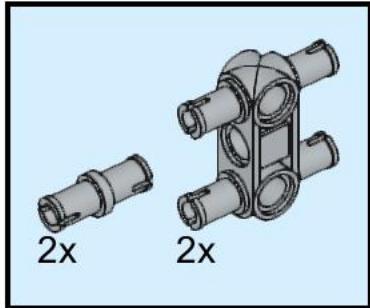
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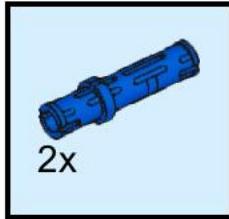
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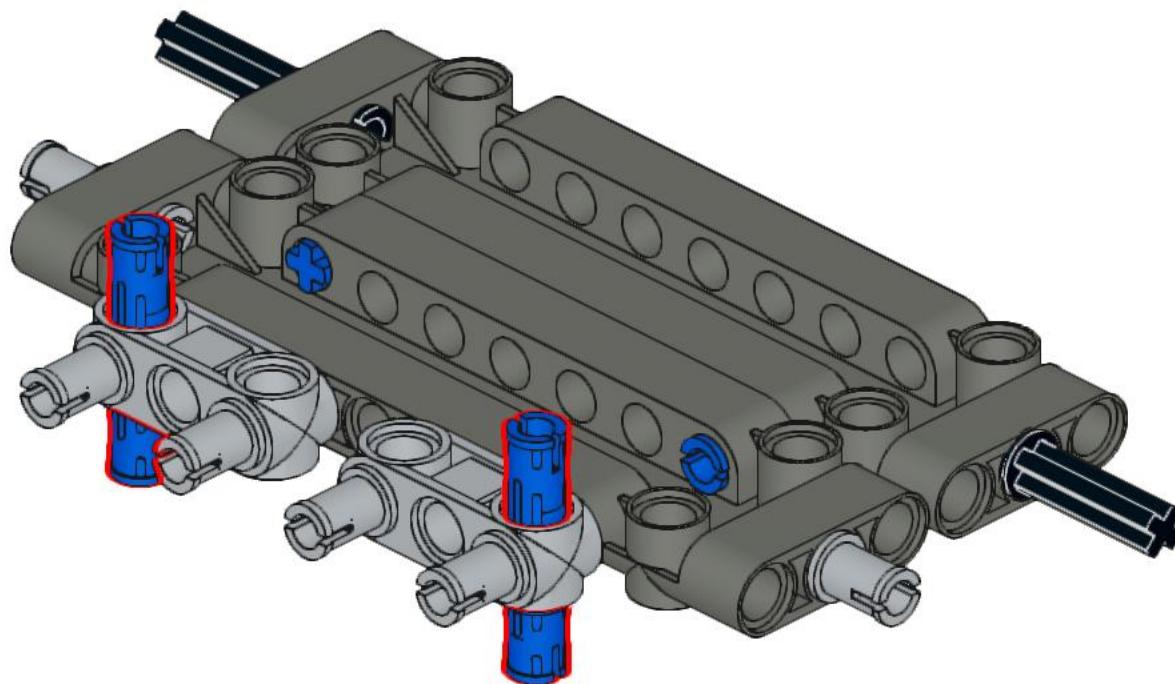
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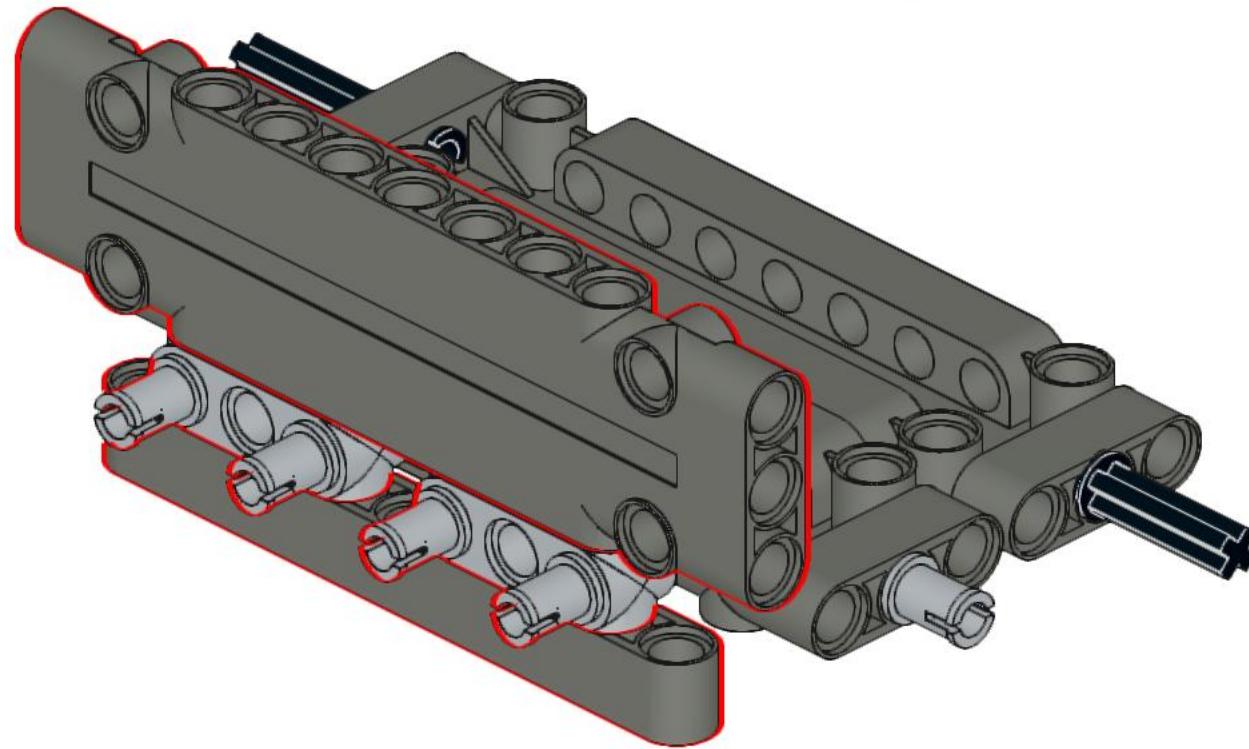
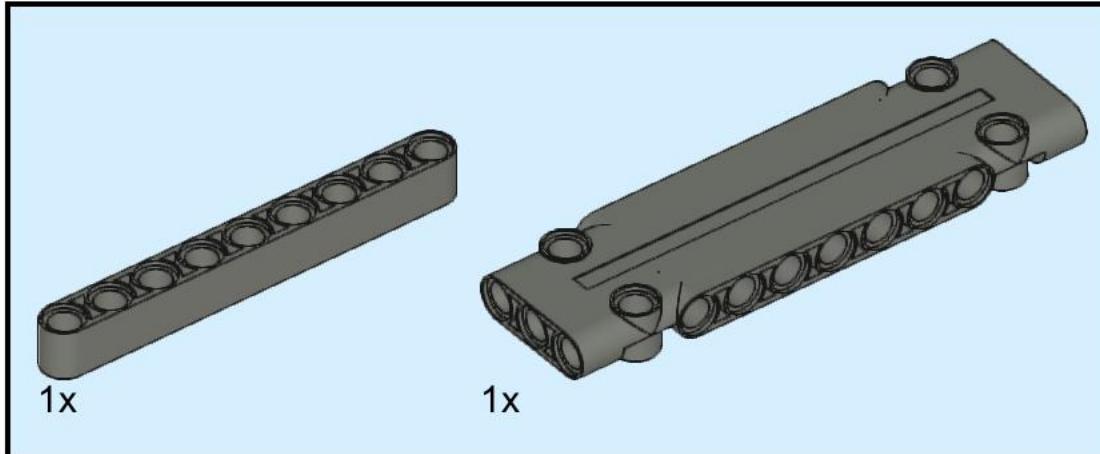
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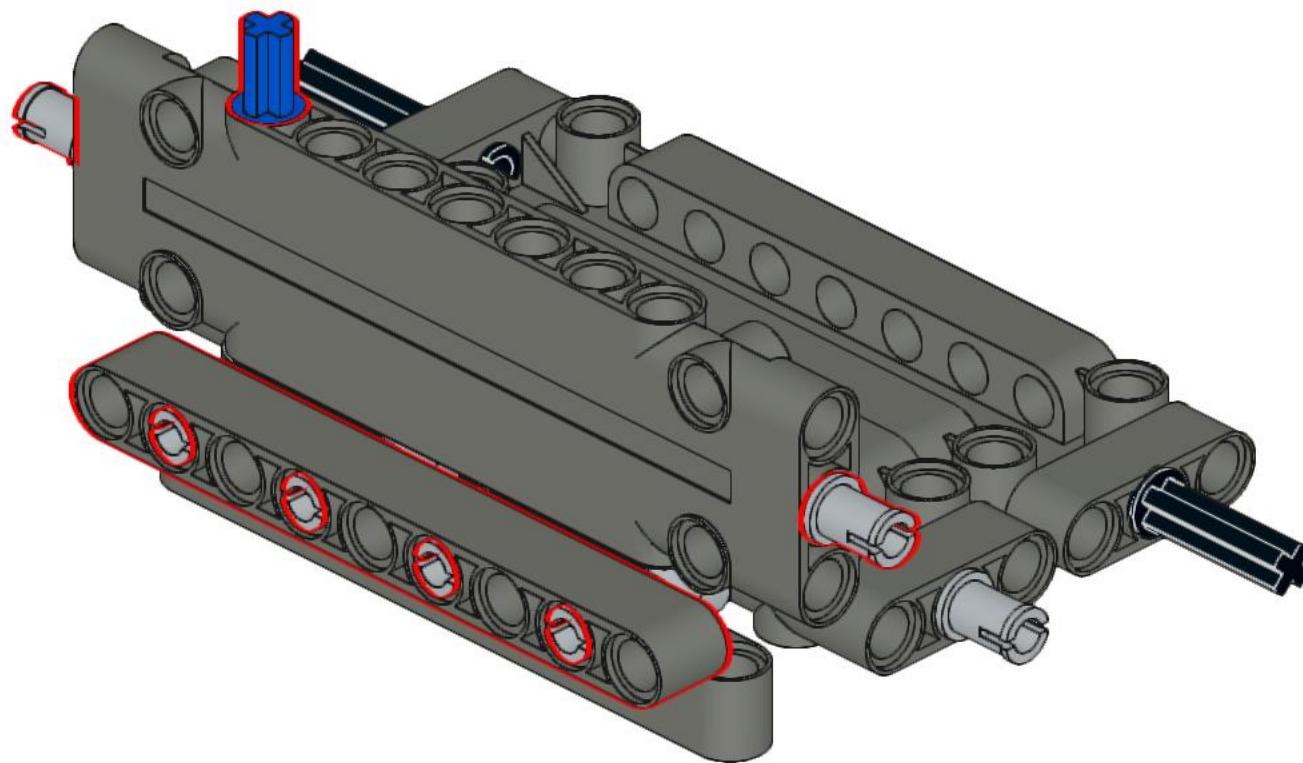
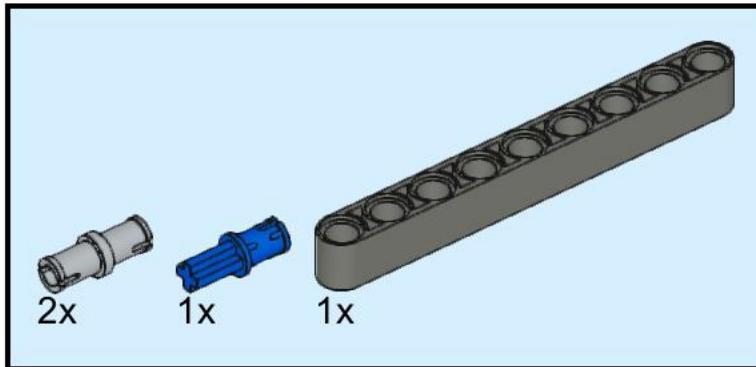
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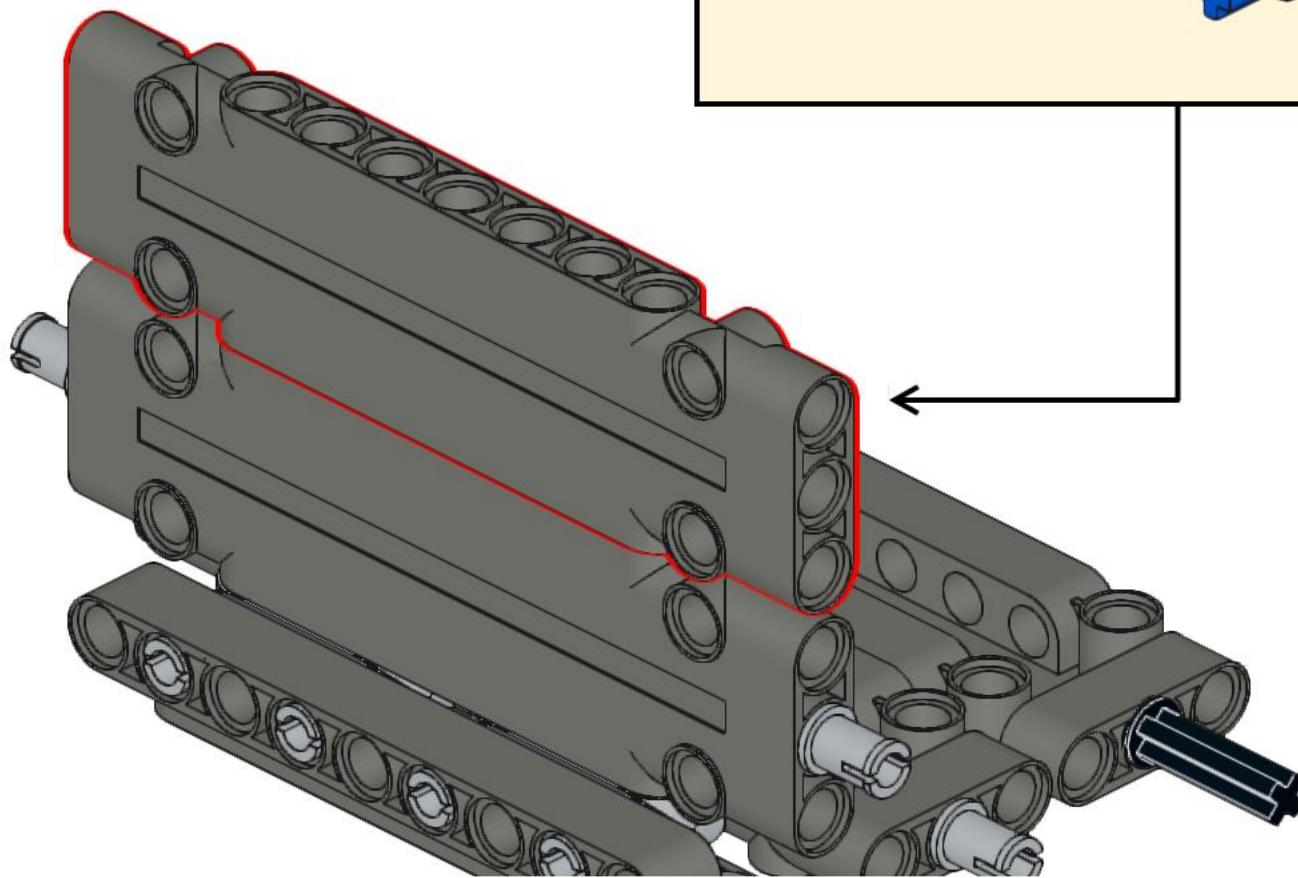
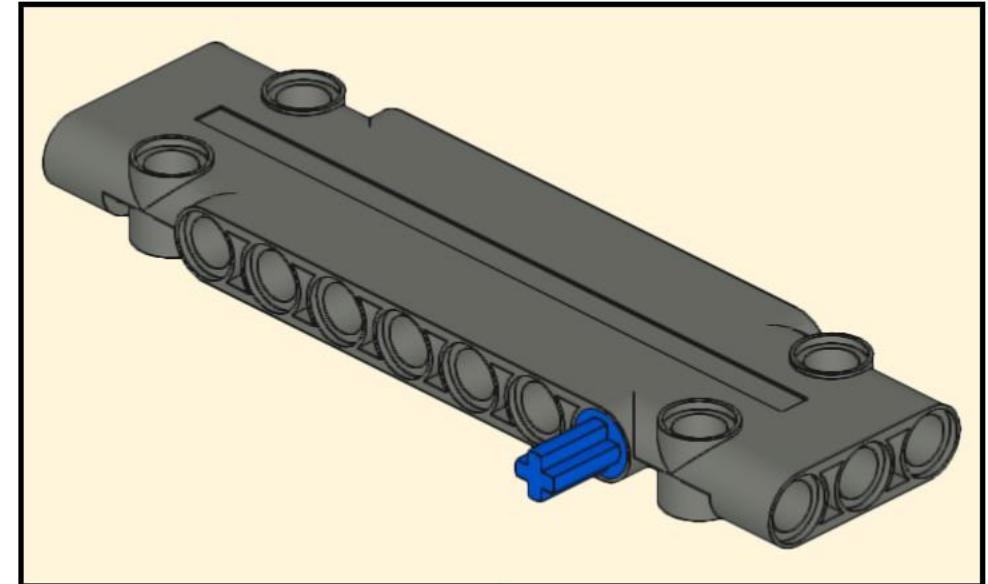
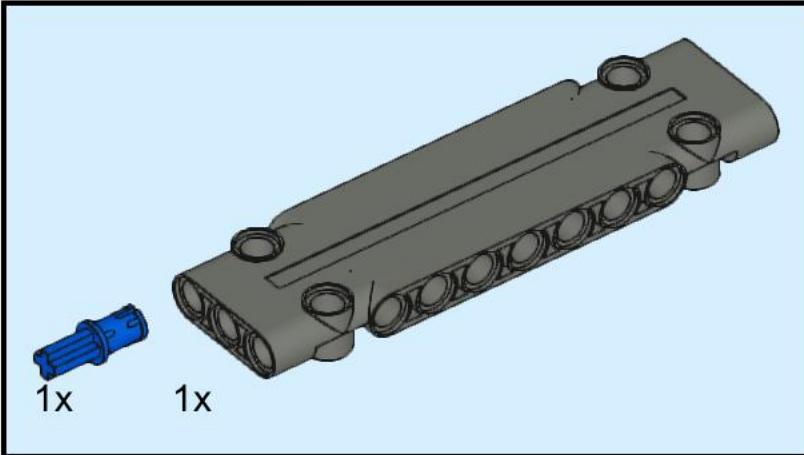
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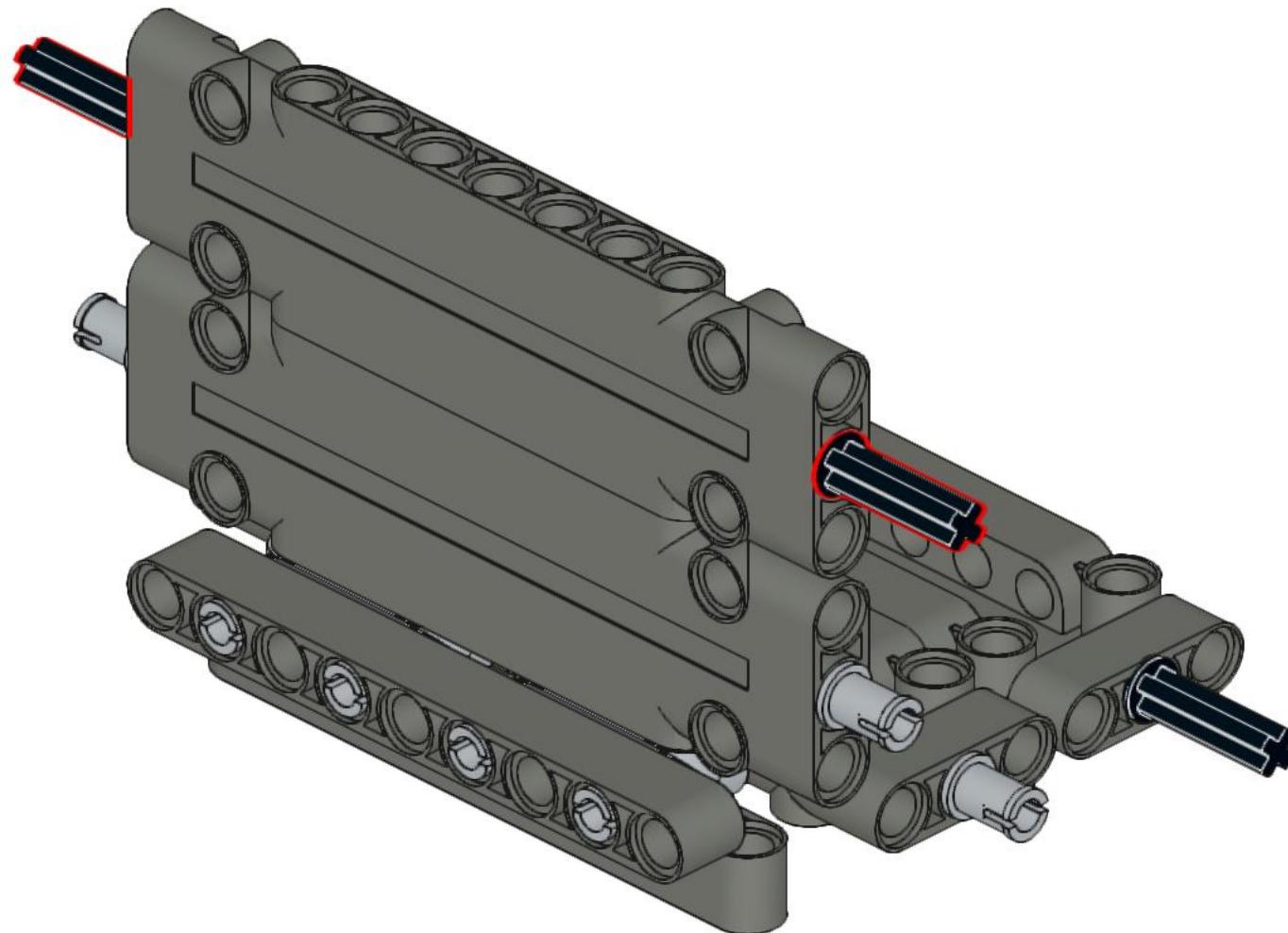
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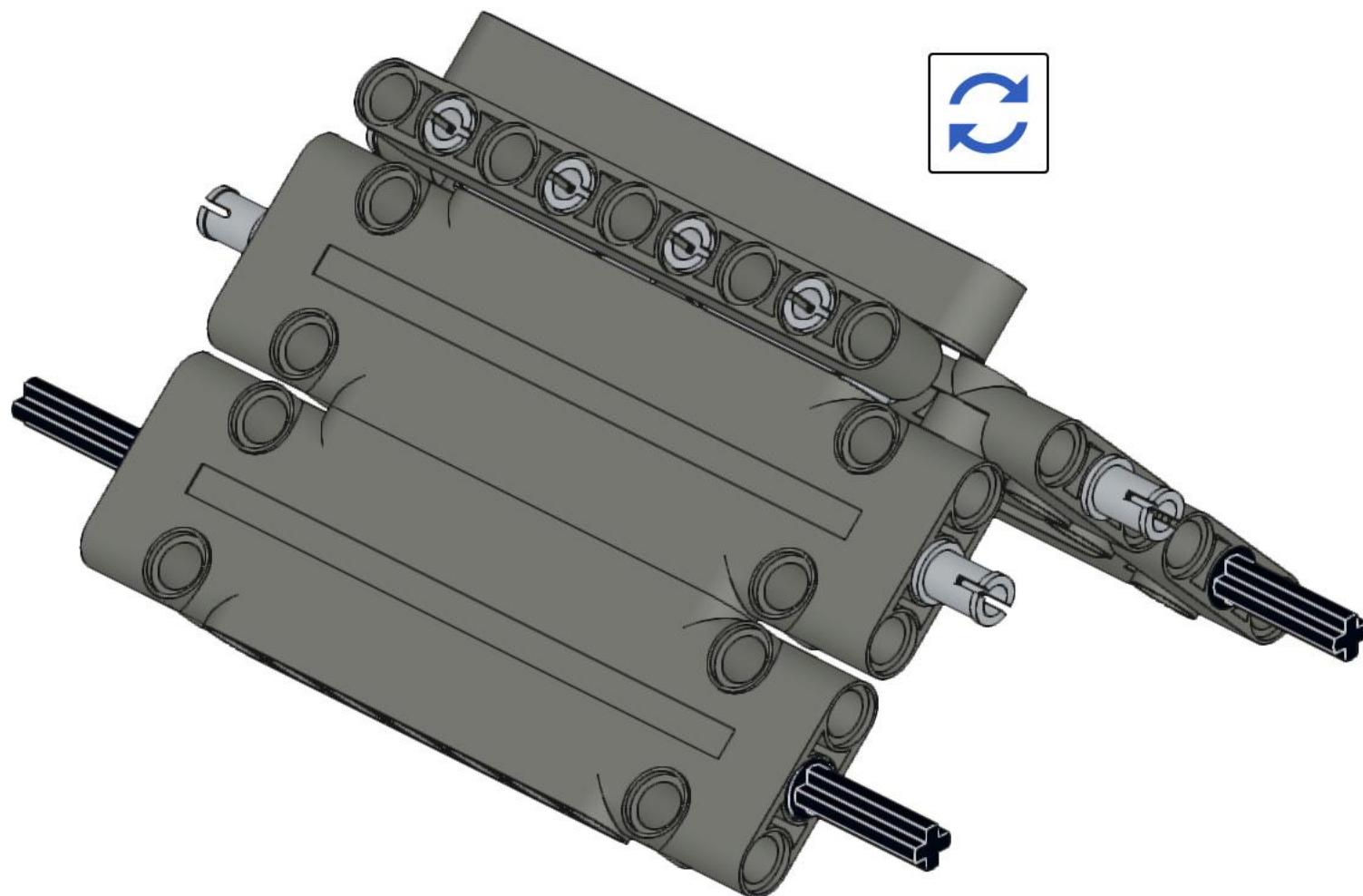
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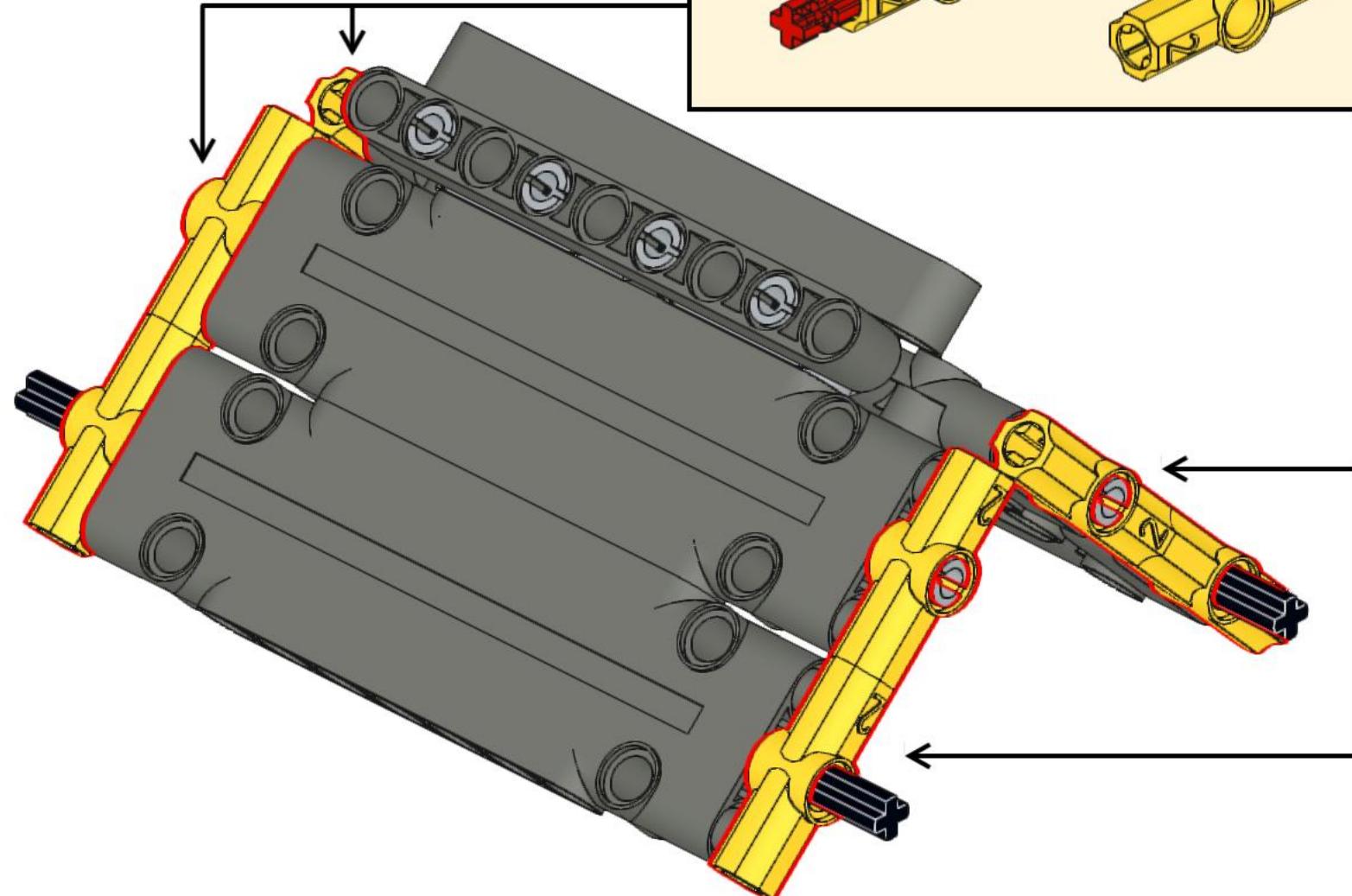
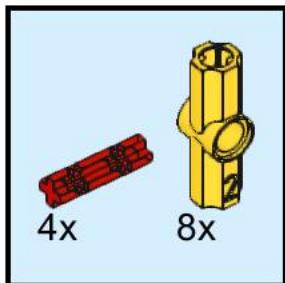
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**9**



**10**

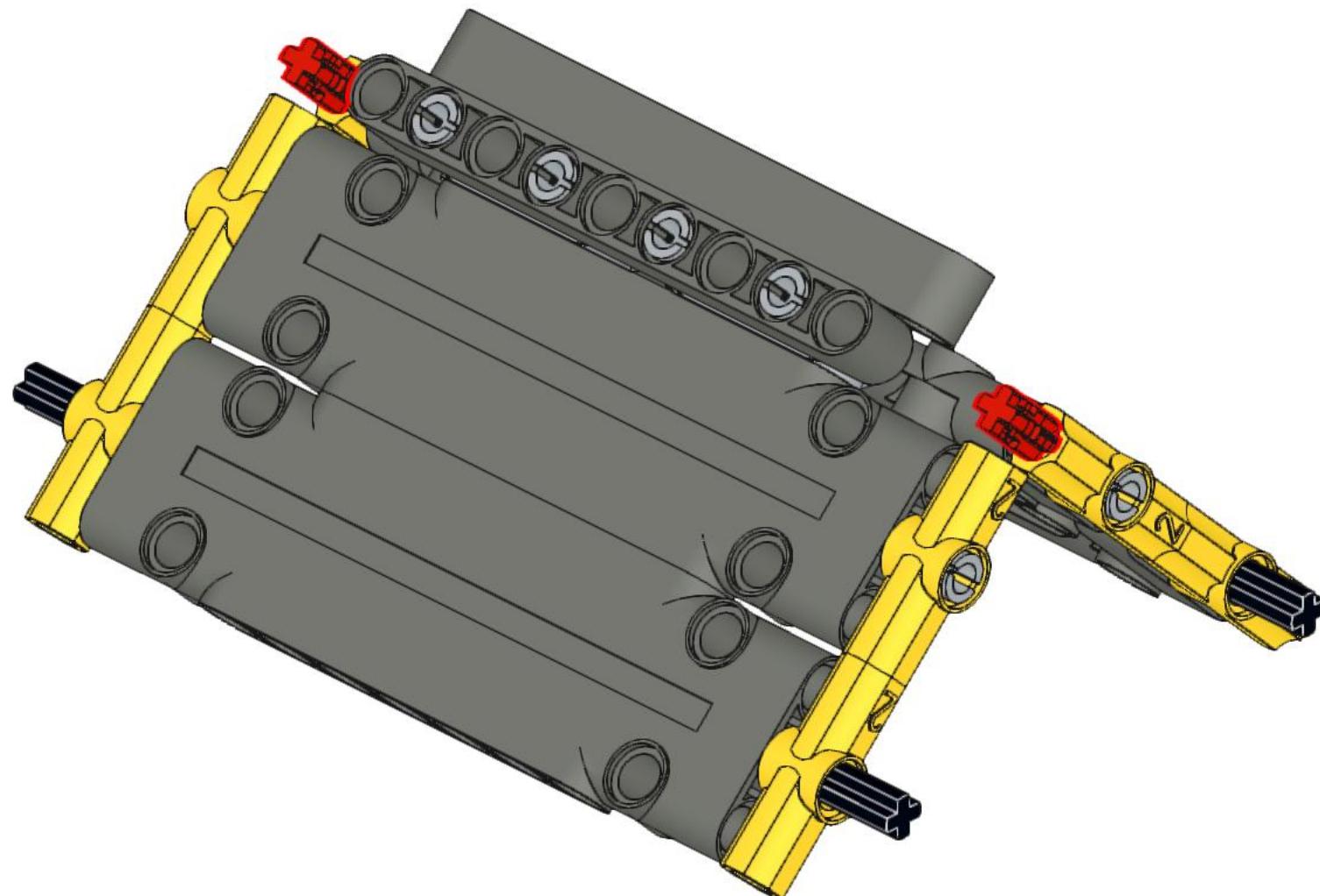
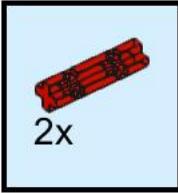


**1**

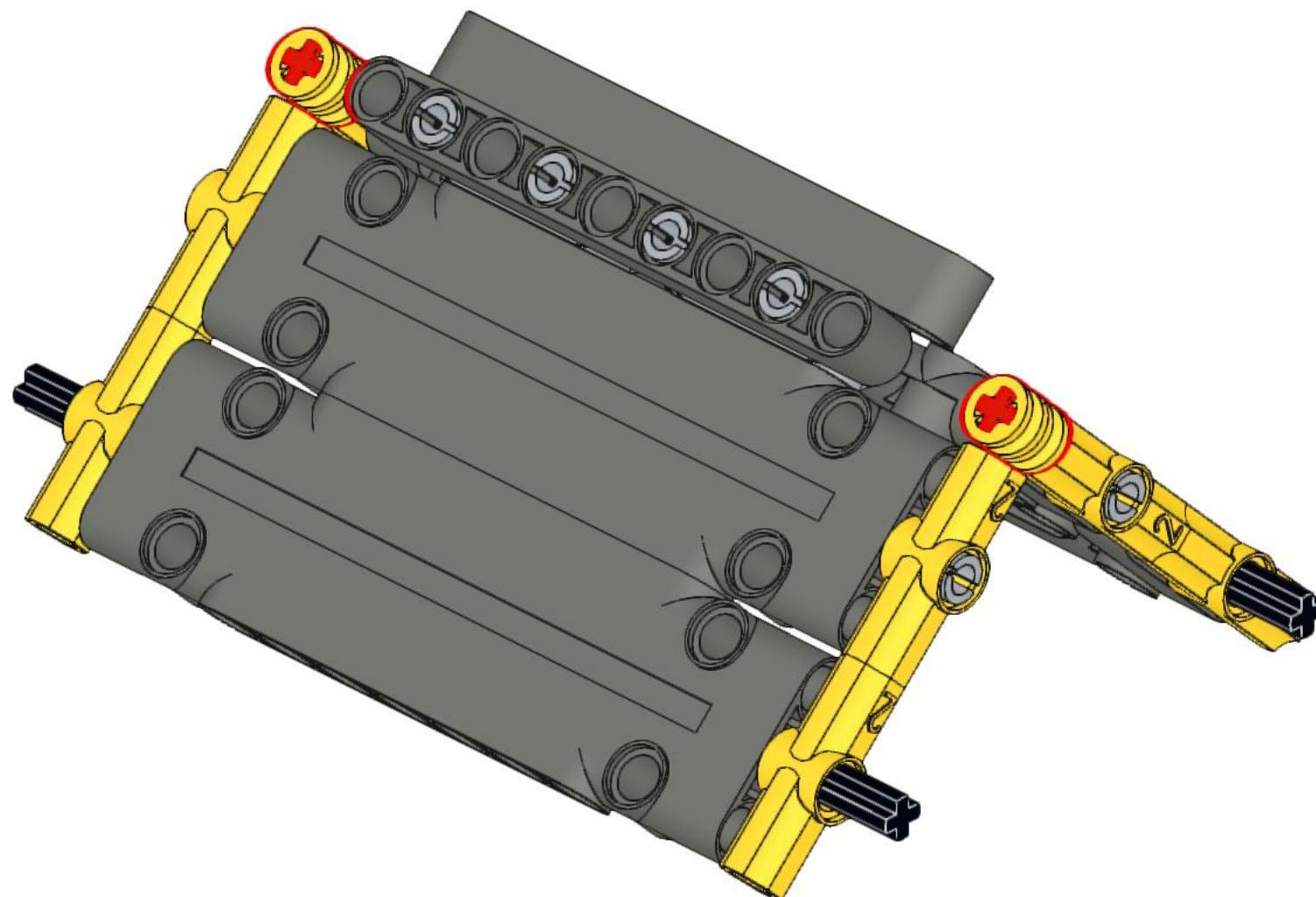
**2**

**4x**

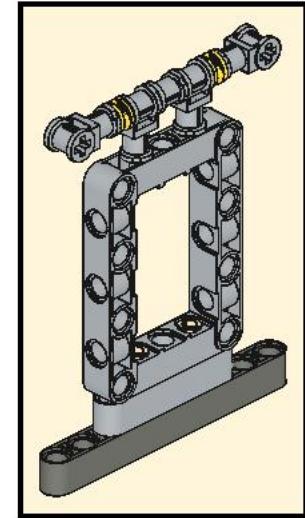
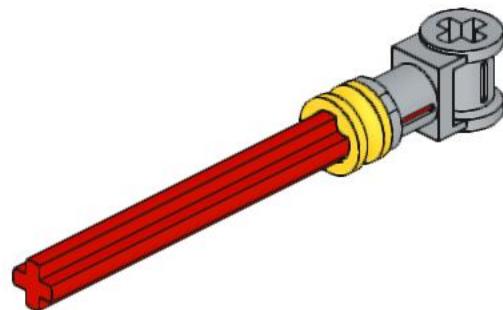
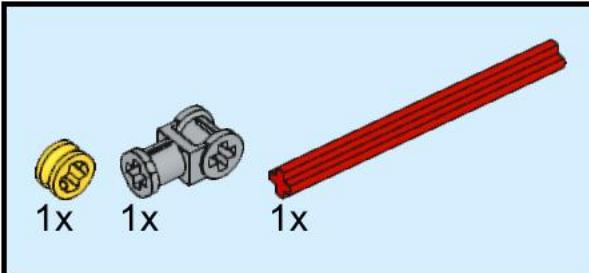
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**12**

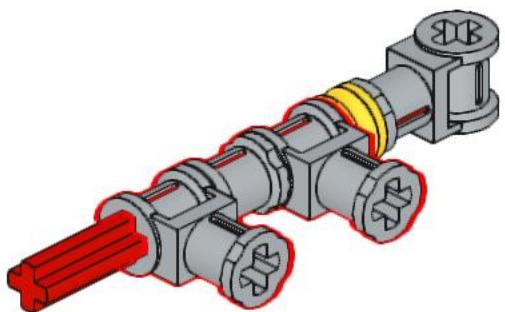
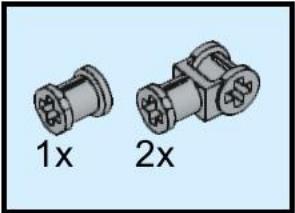


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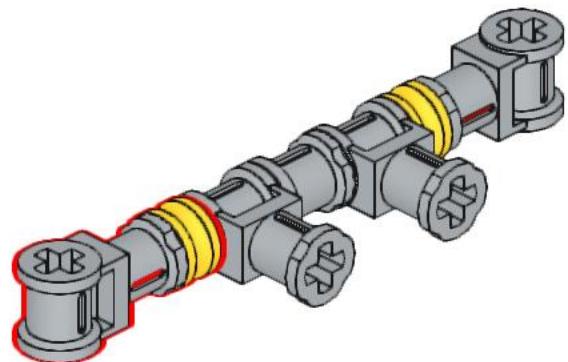
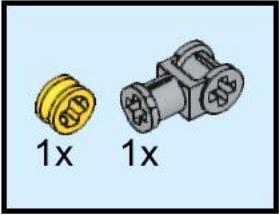


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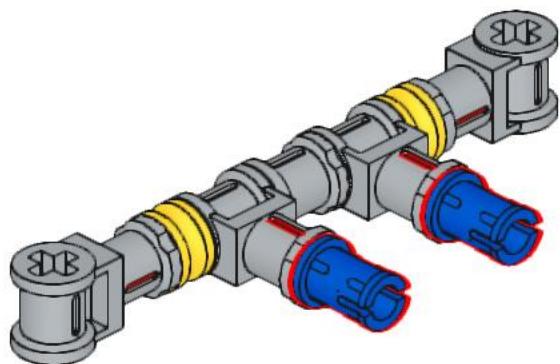
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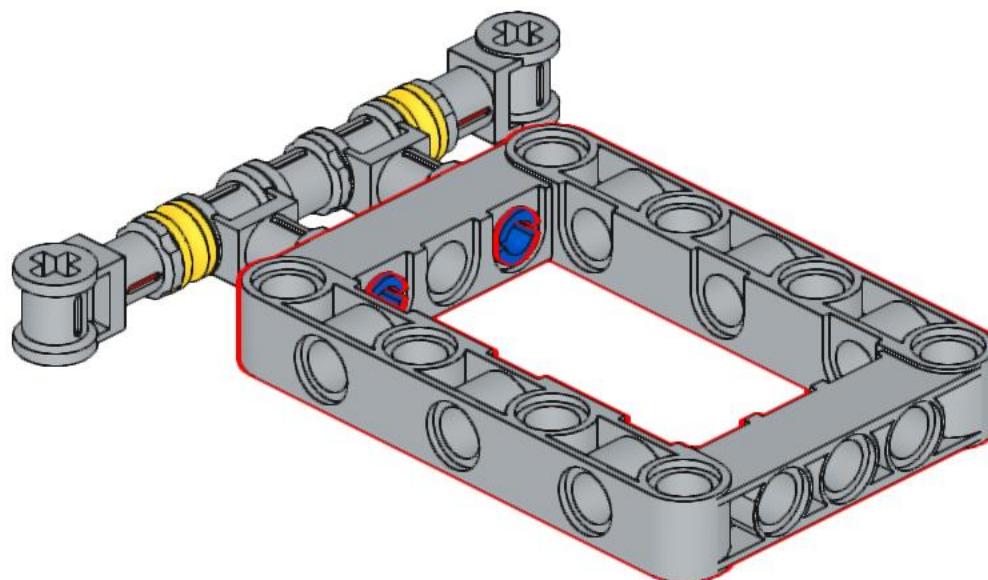
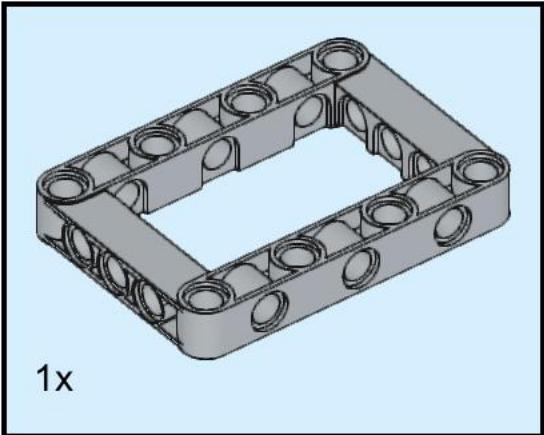
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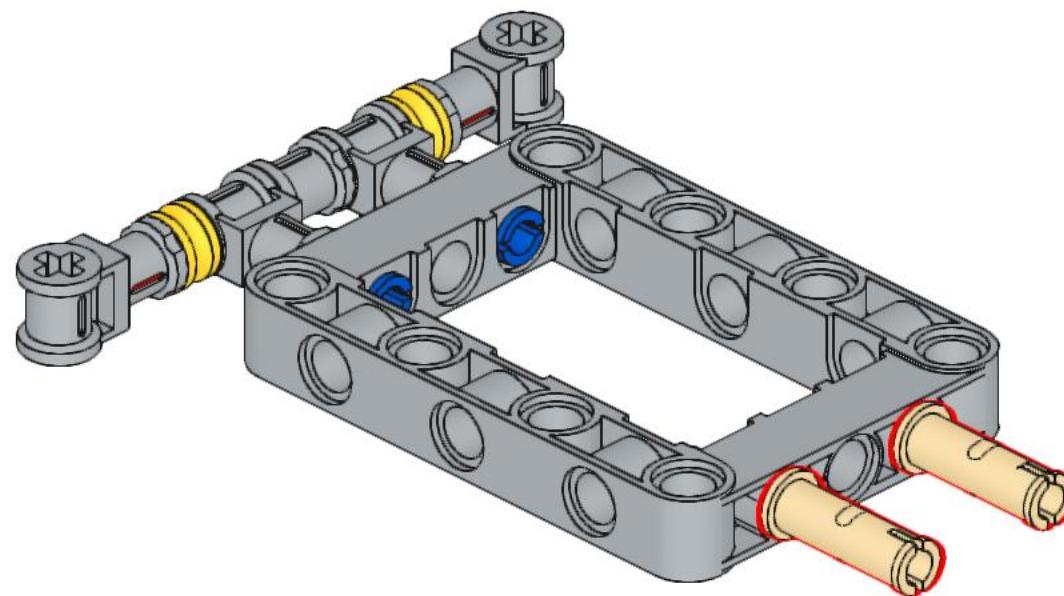
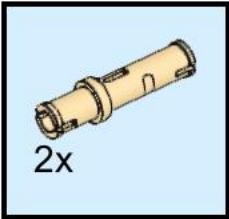
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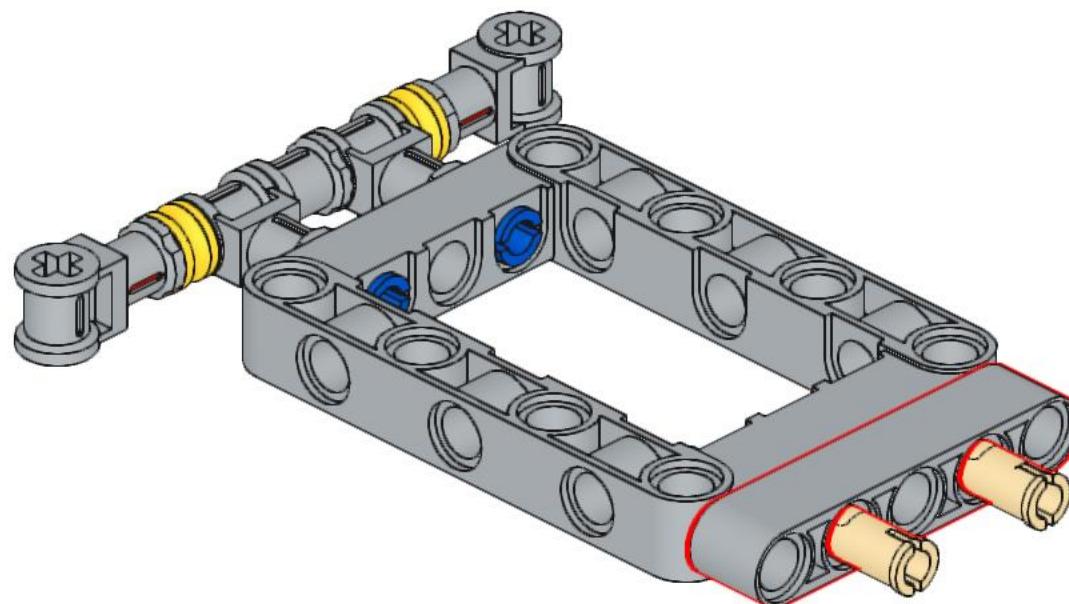
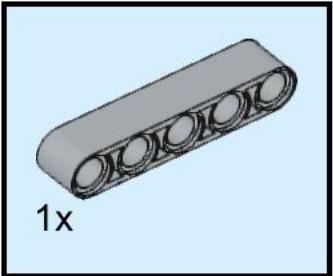
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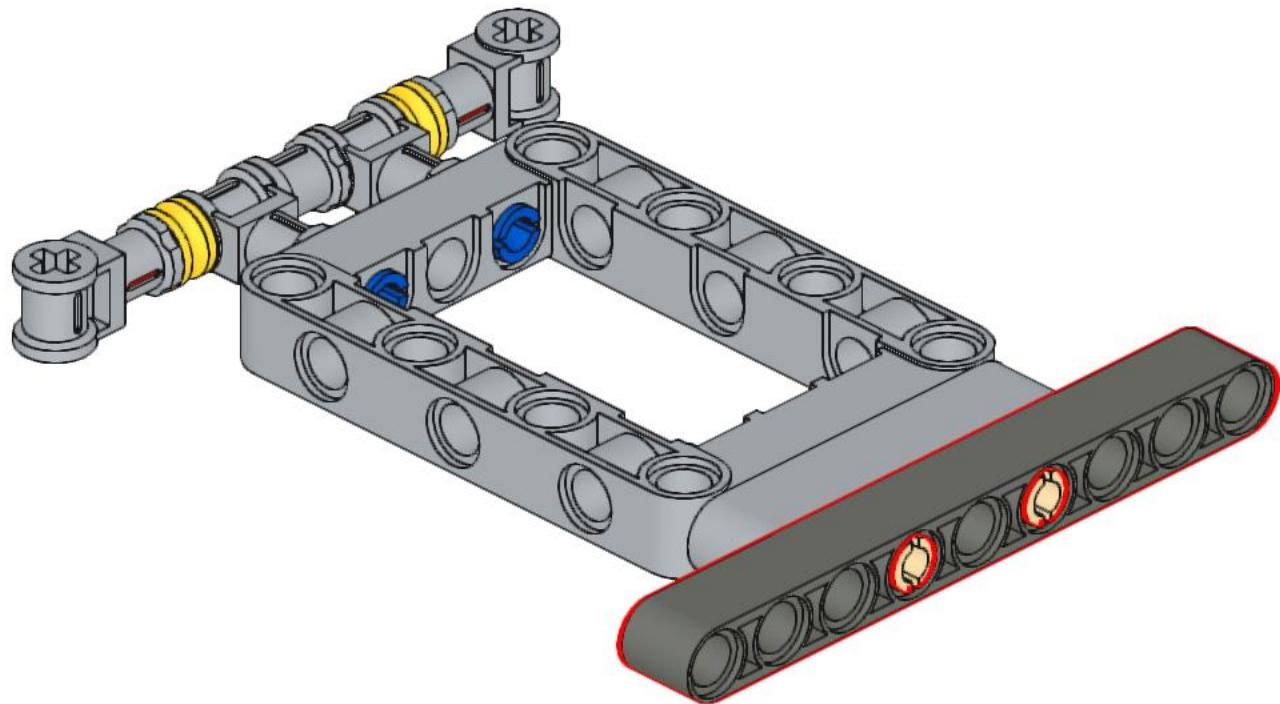
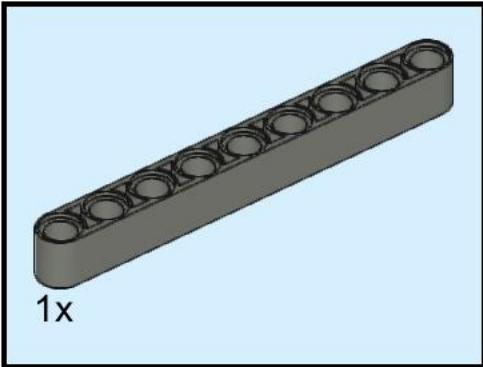
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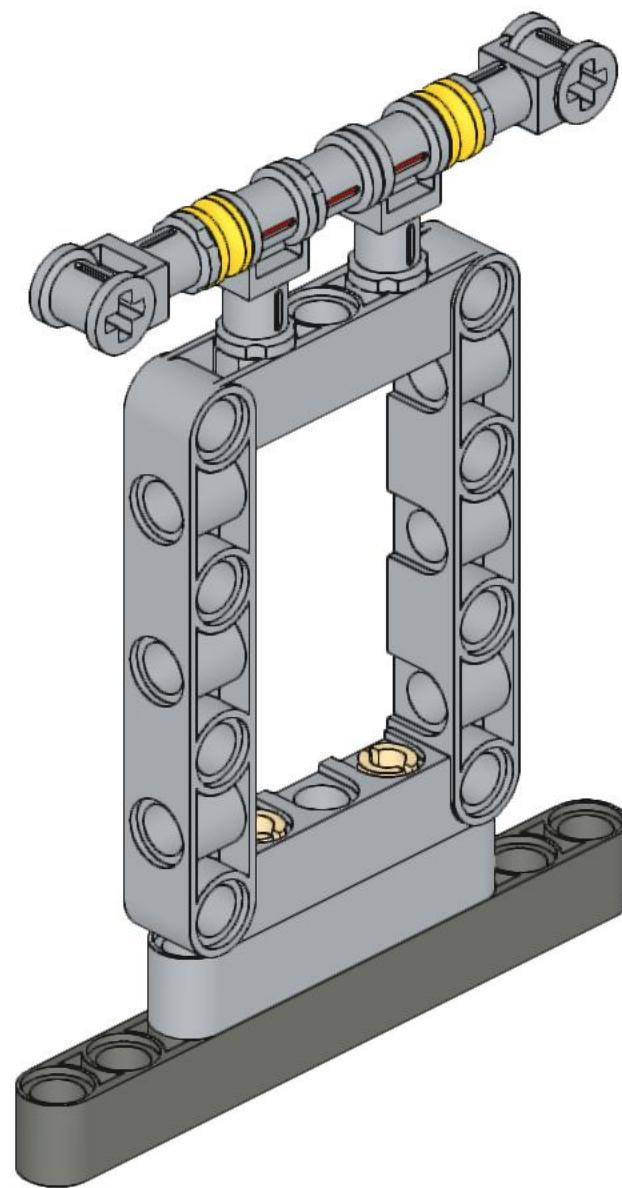
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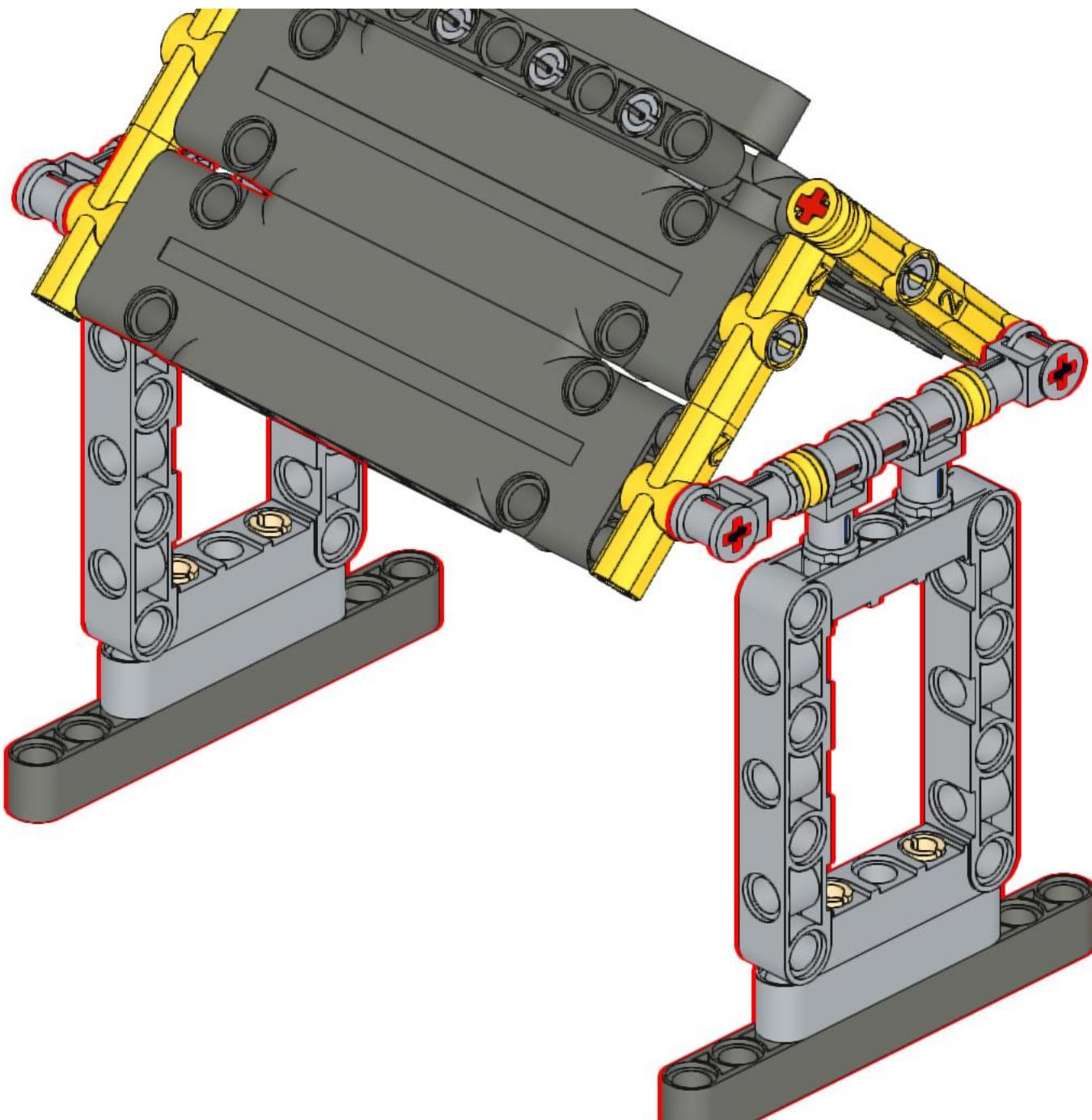
**20**



**21**



**22**



**23**

