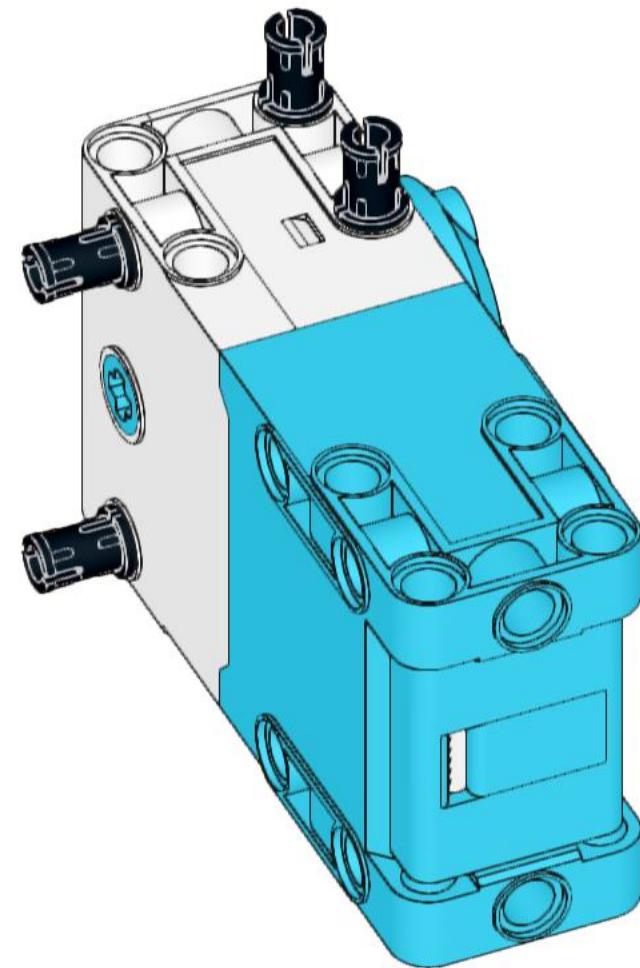
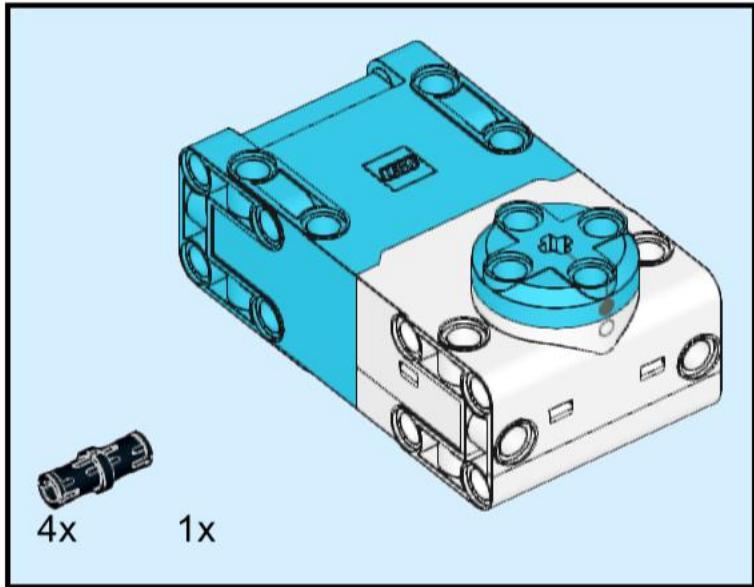
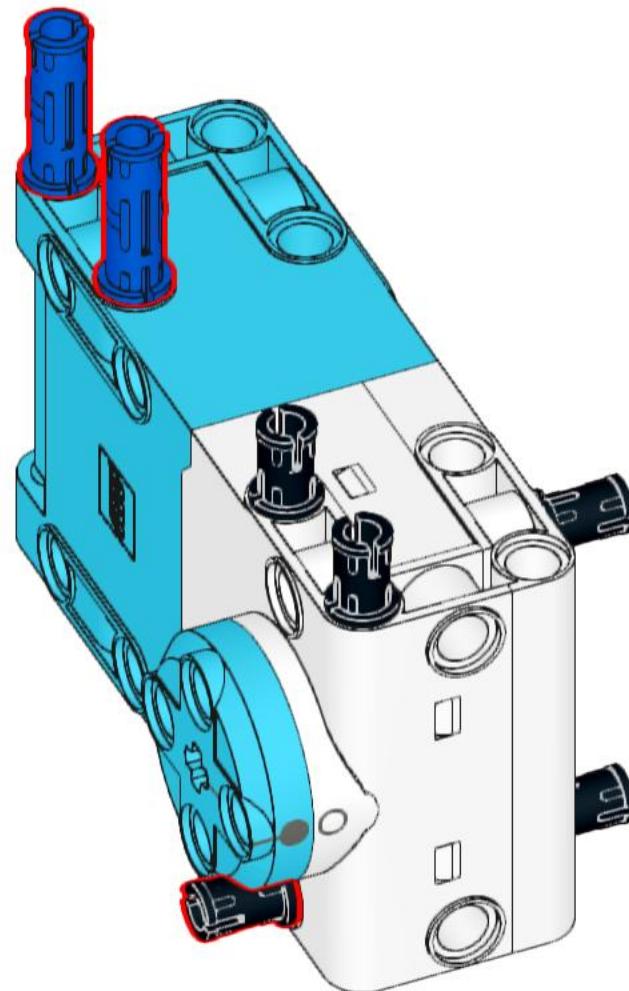
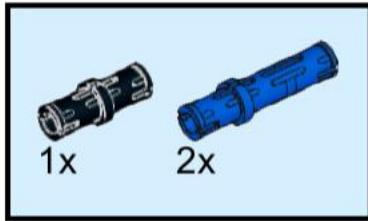


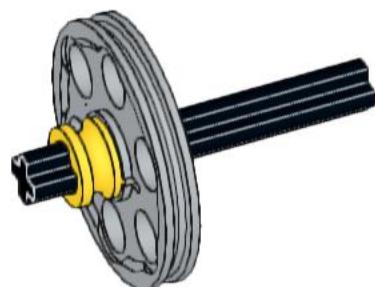
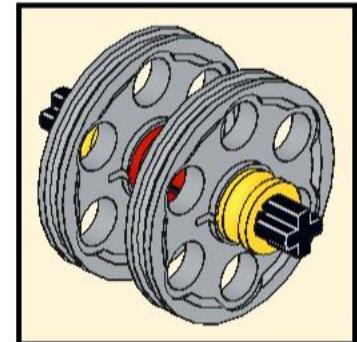
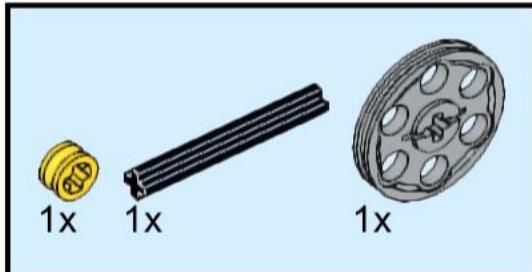
**1**



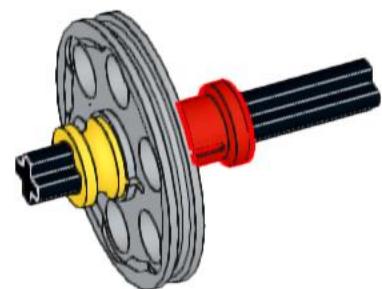
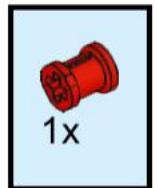
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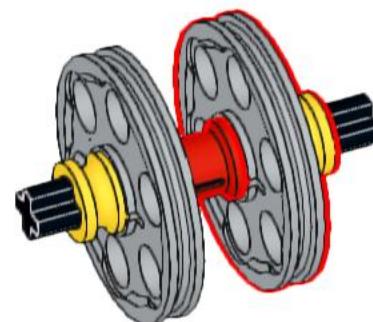
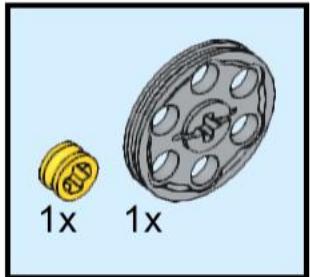
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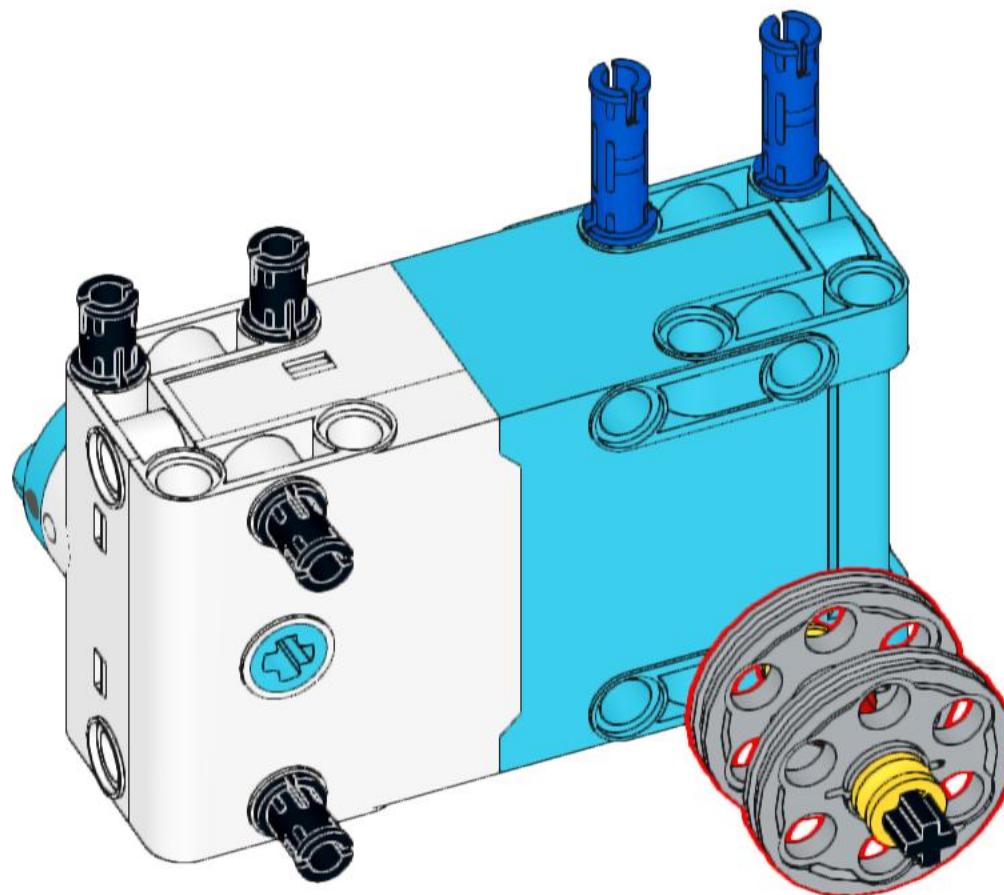
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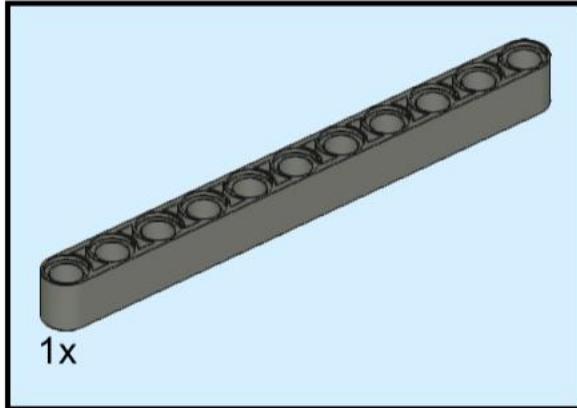
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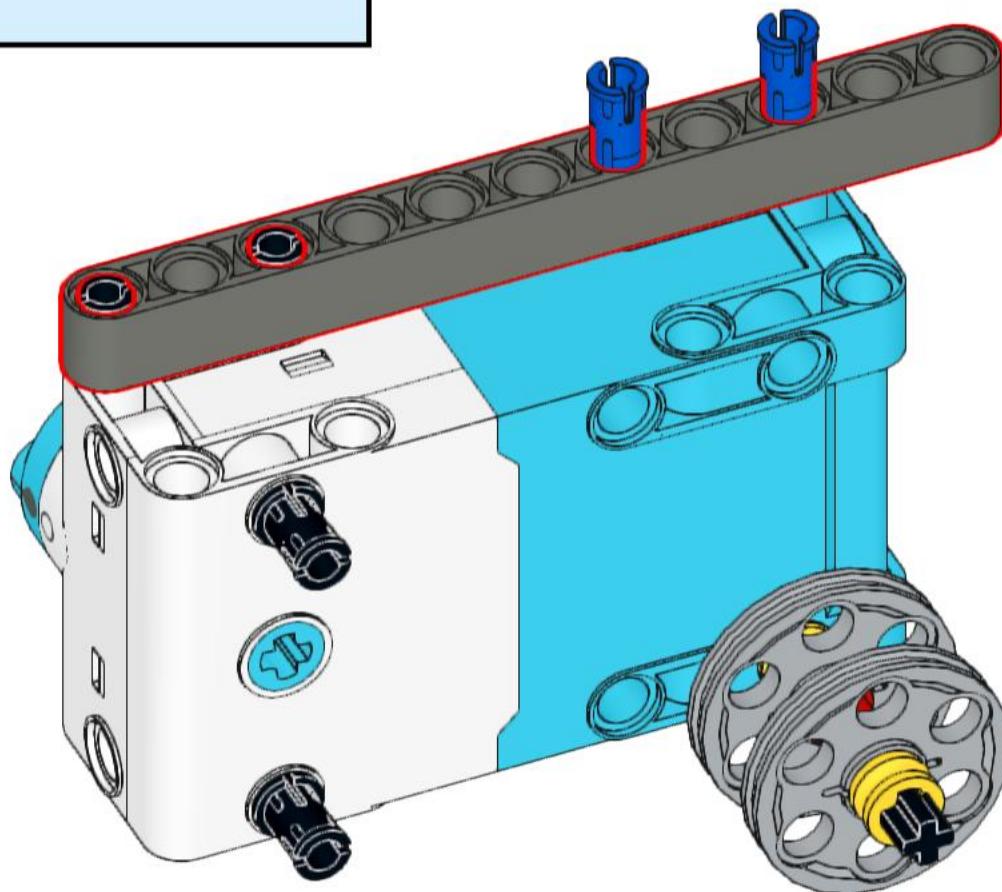
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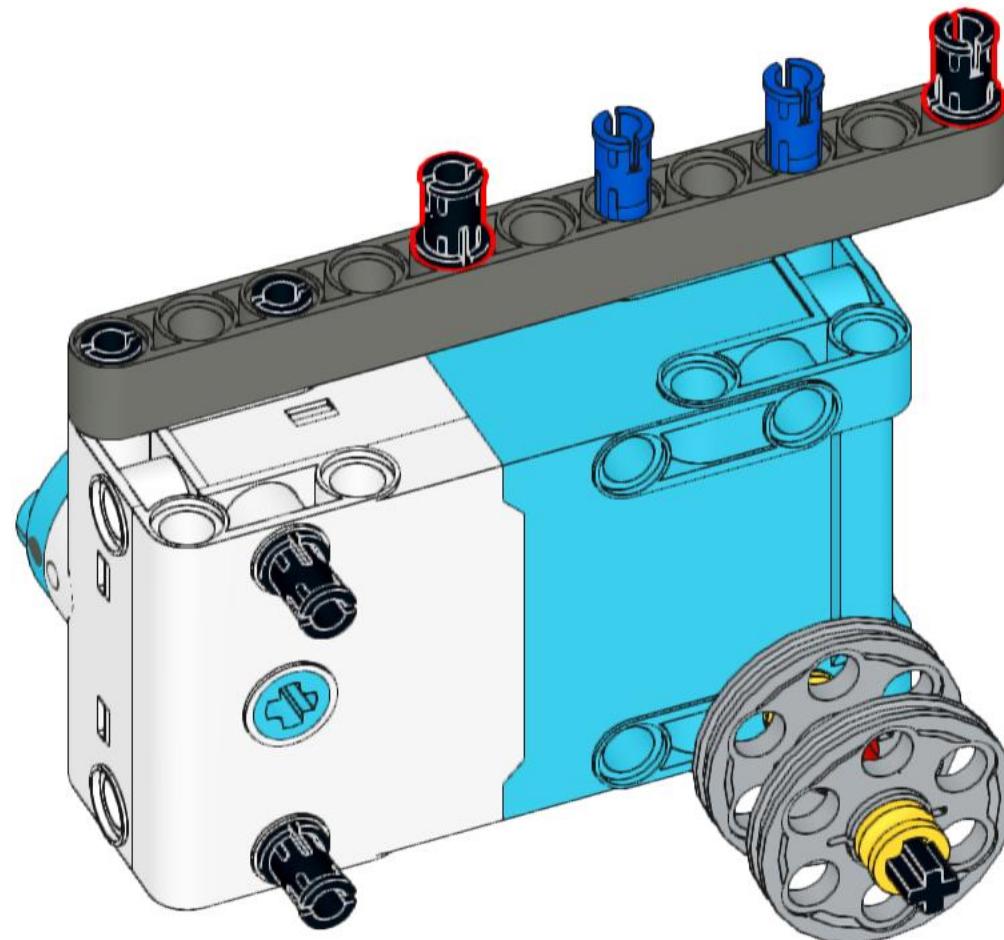
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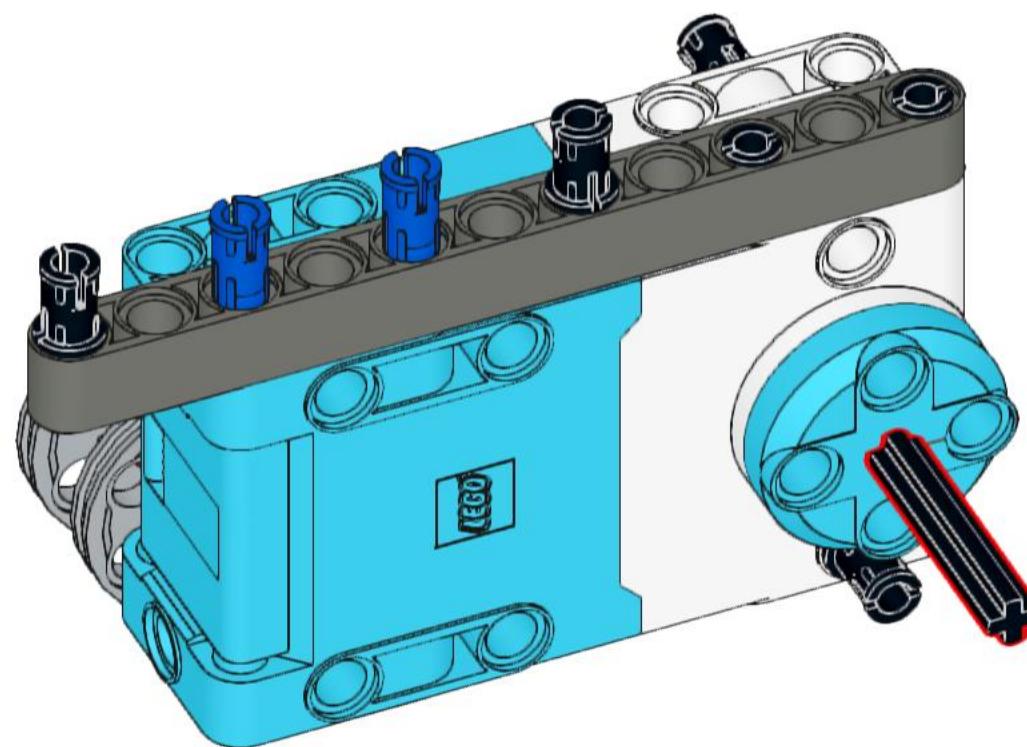
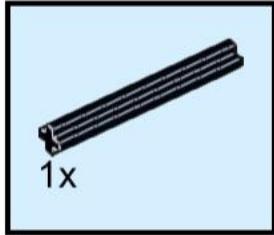
Remember to save the four colored beams until near the end. I'll remind you when to use them



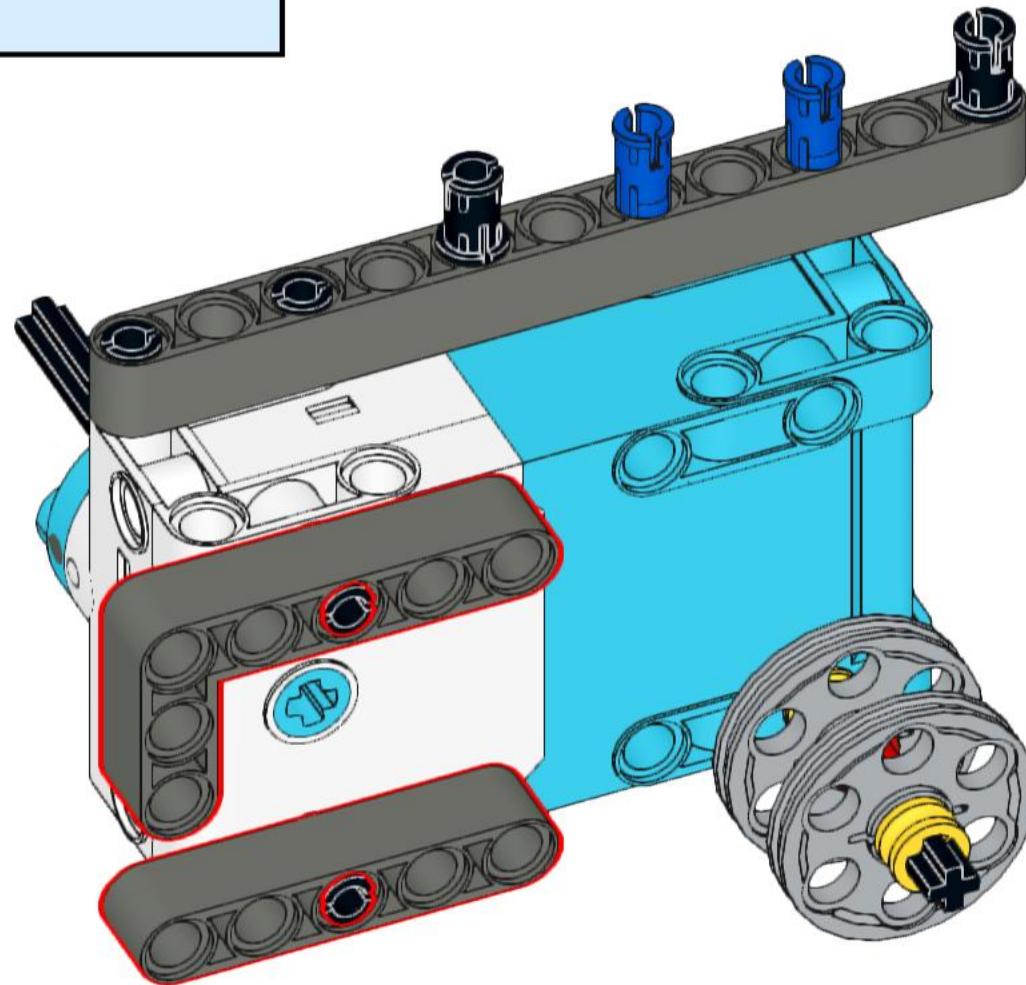
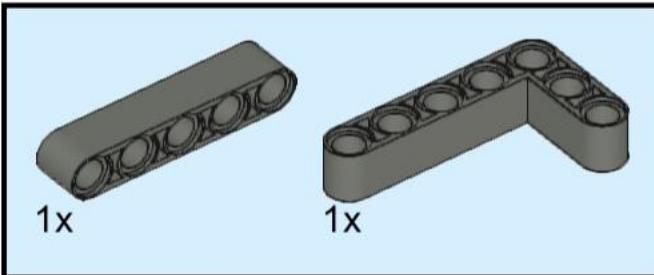
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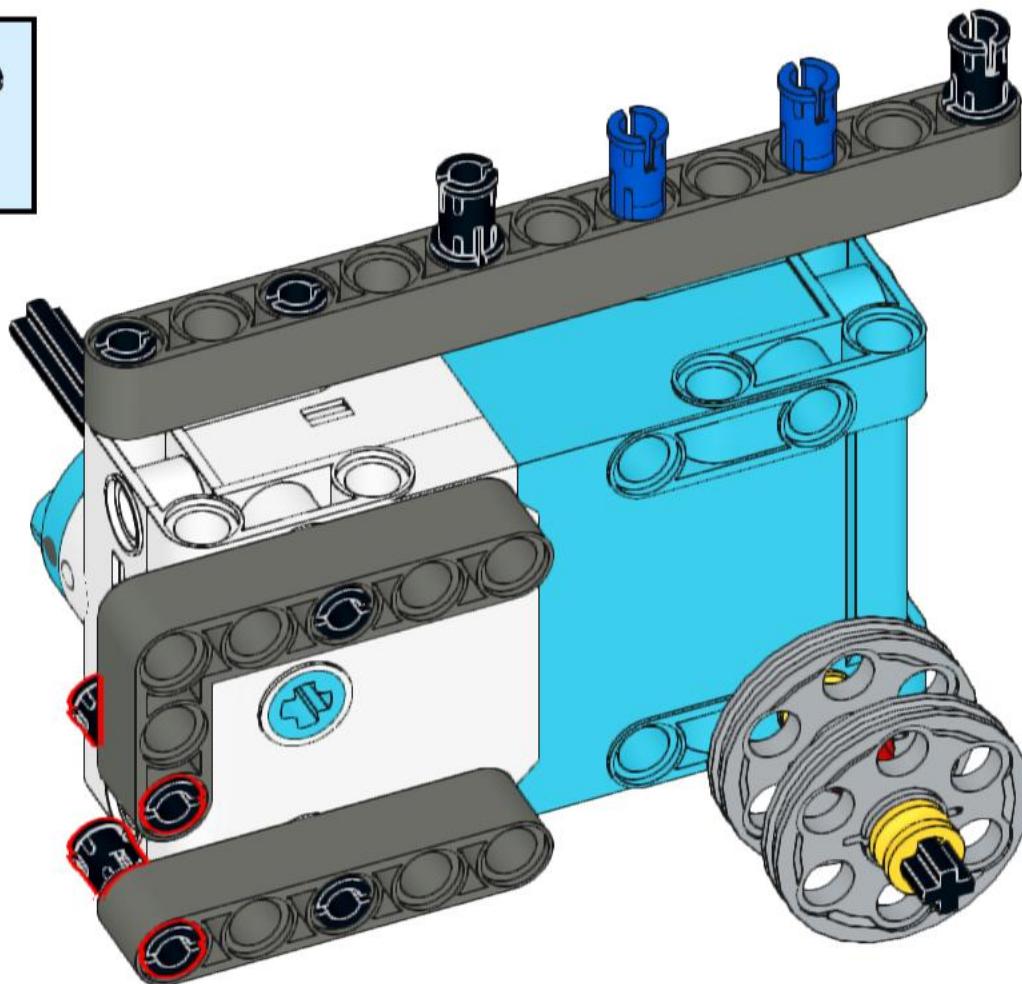
**9**



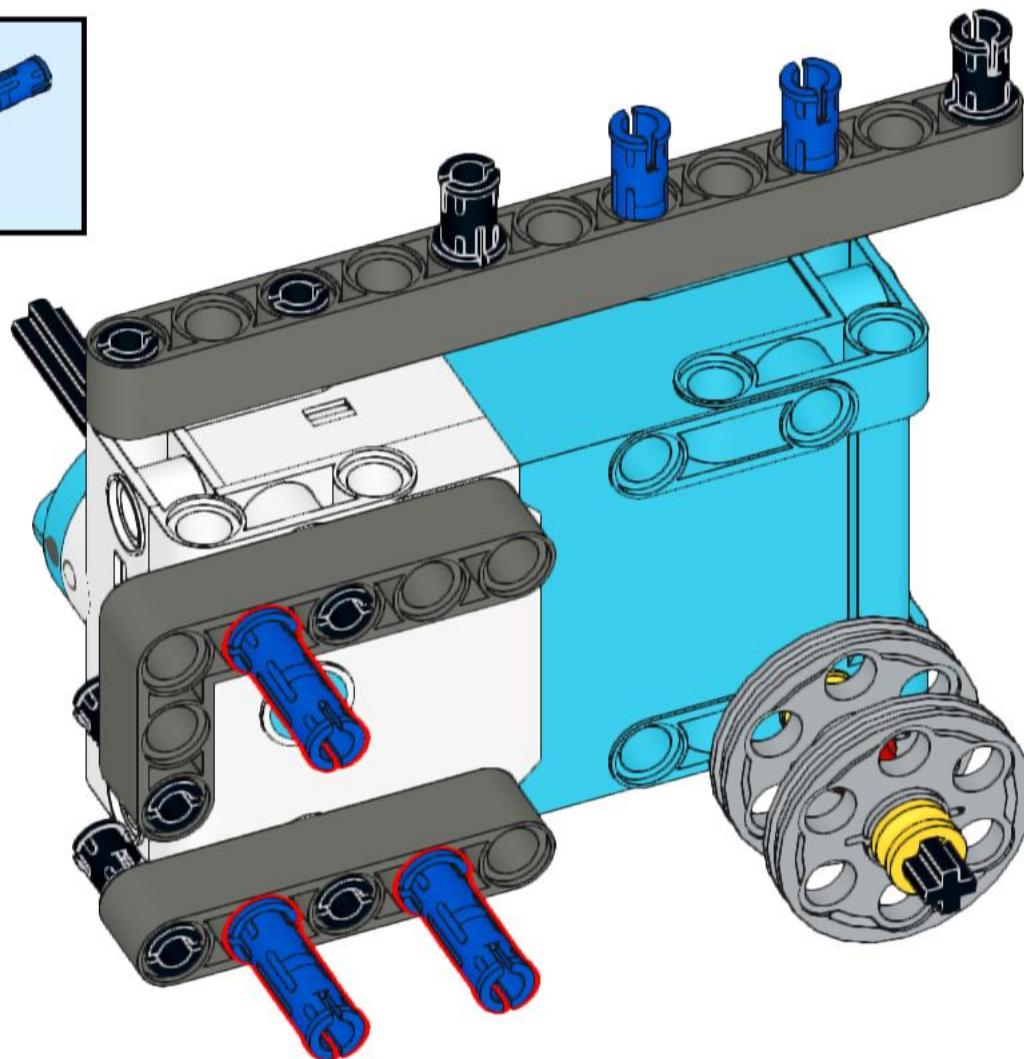
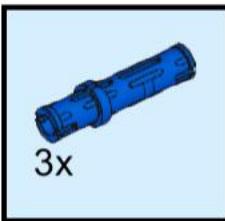
**10**



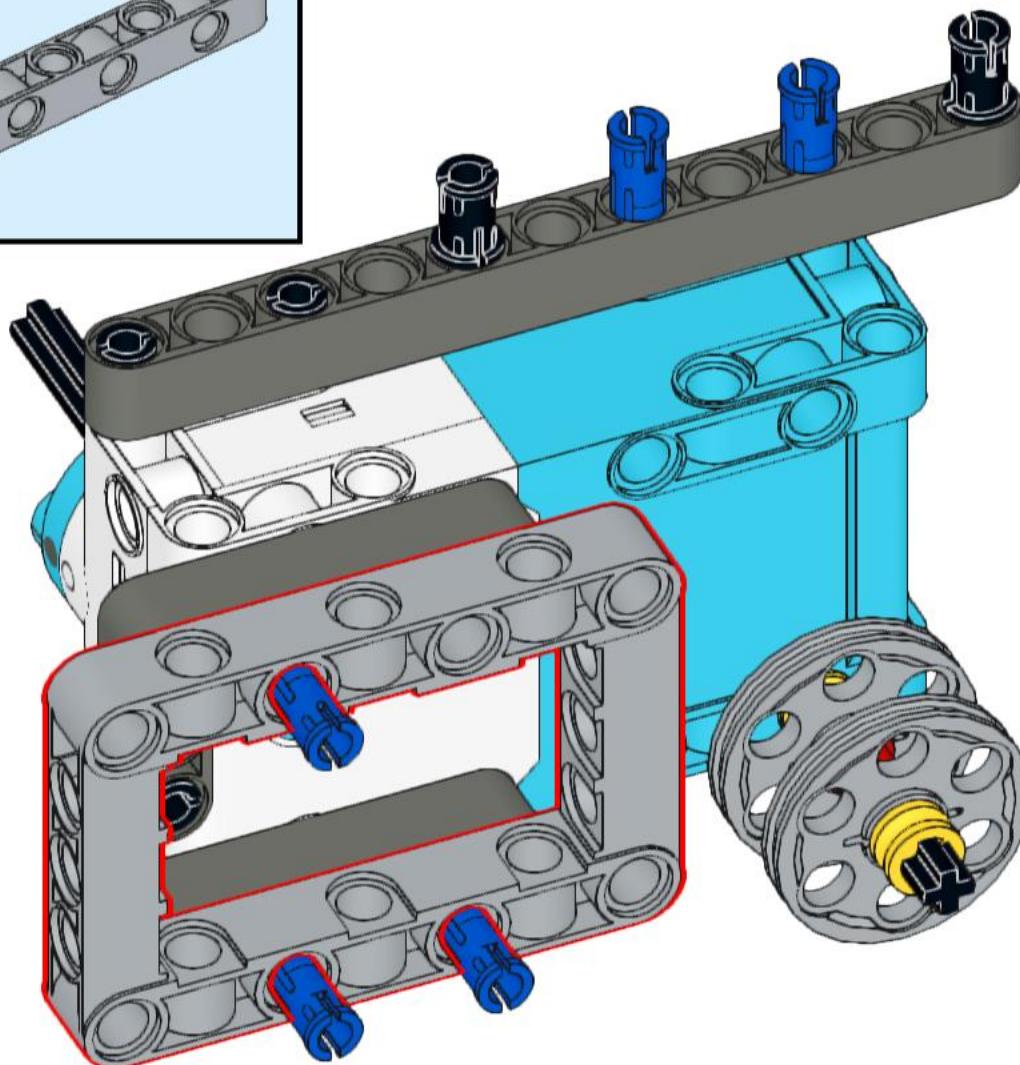
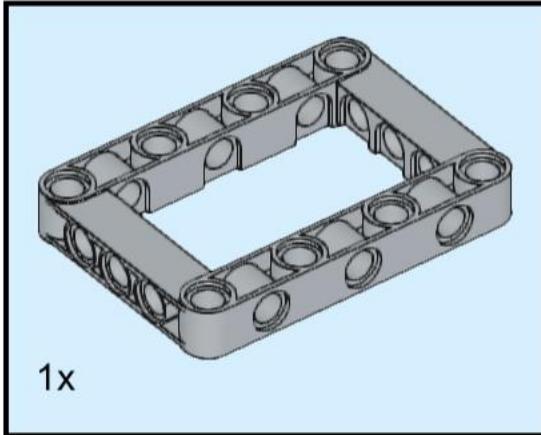
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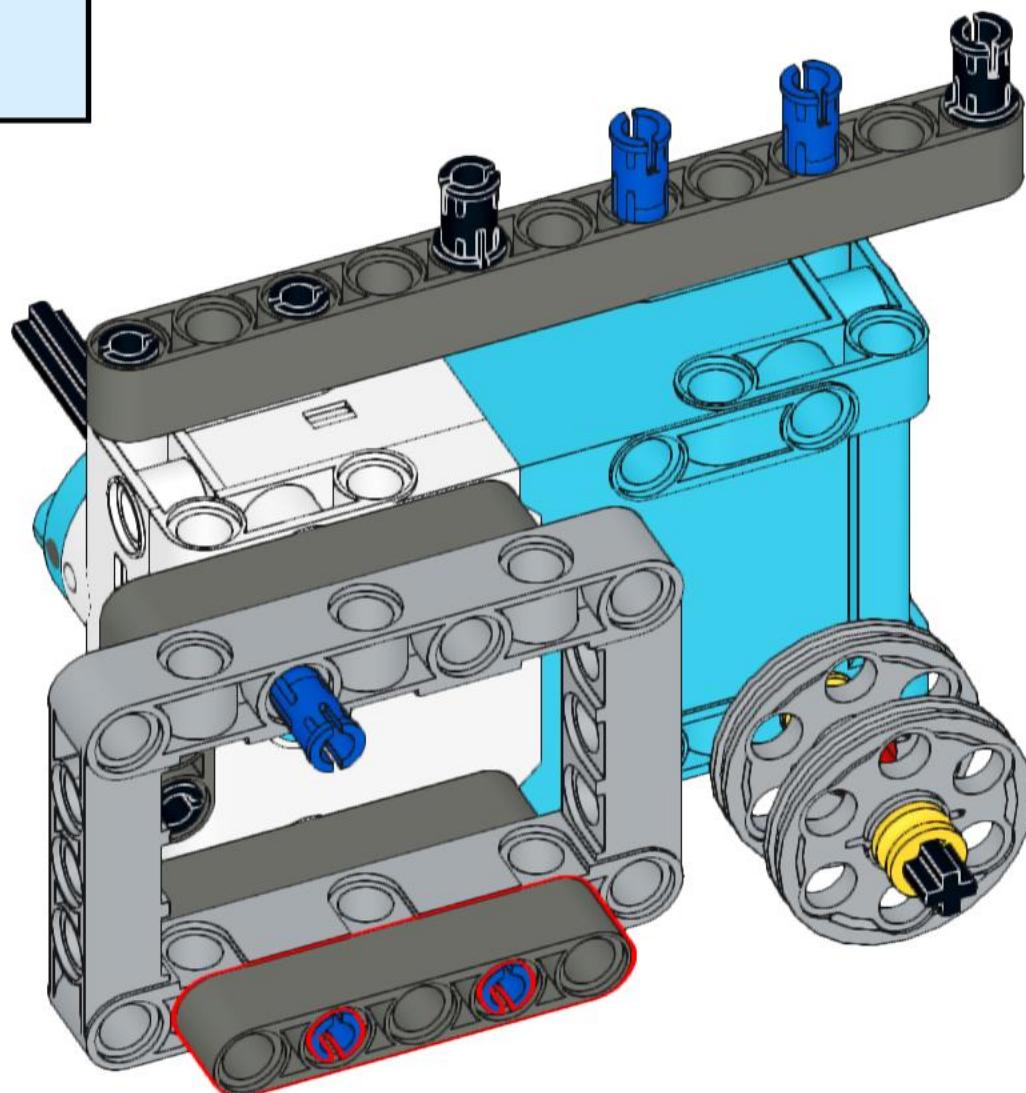
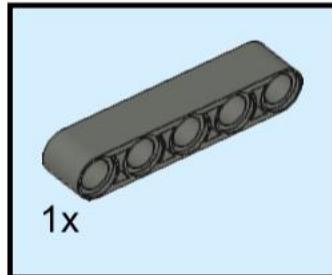
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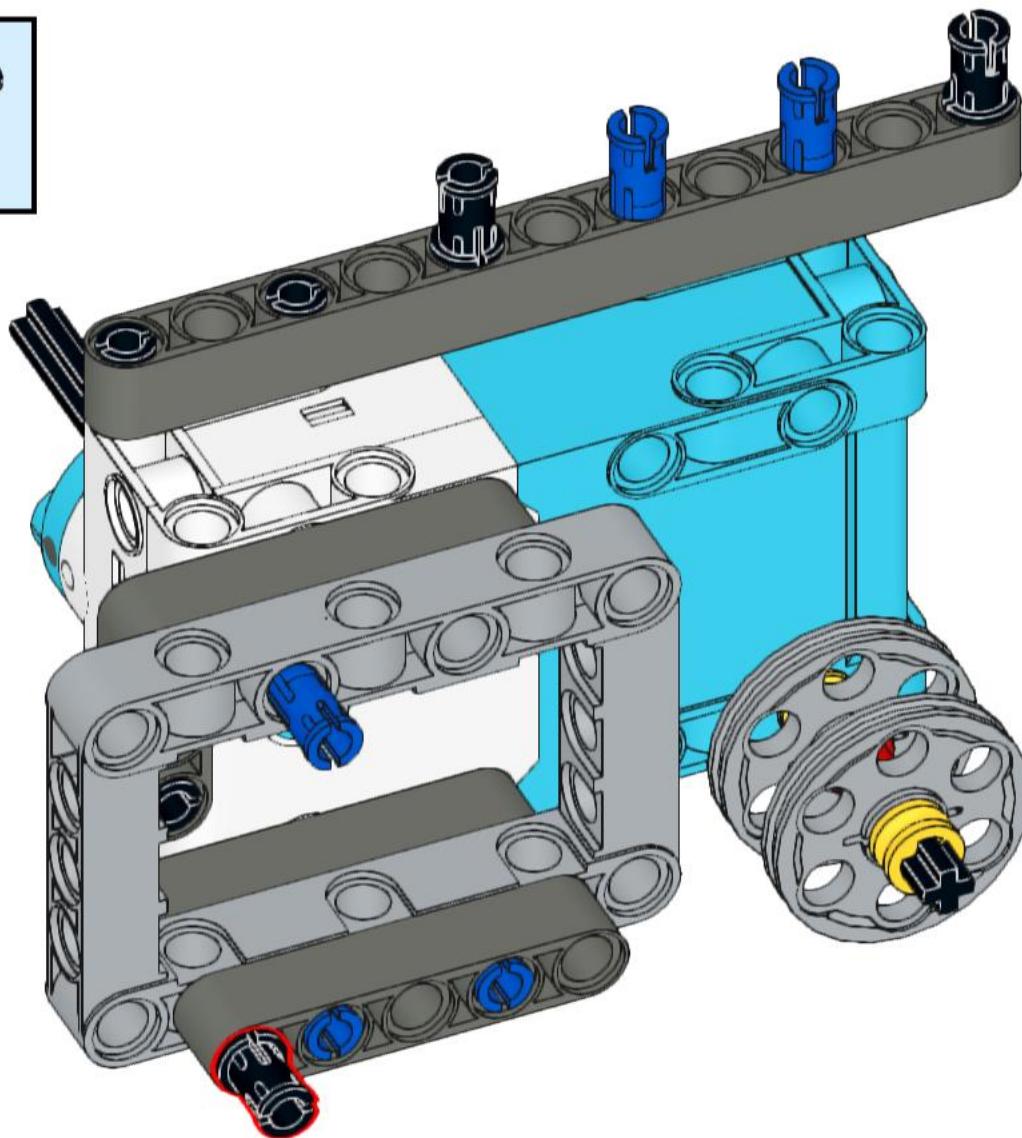
**13**



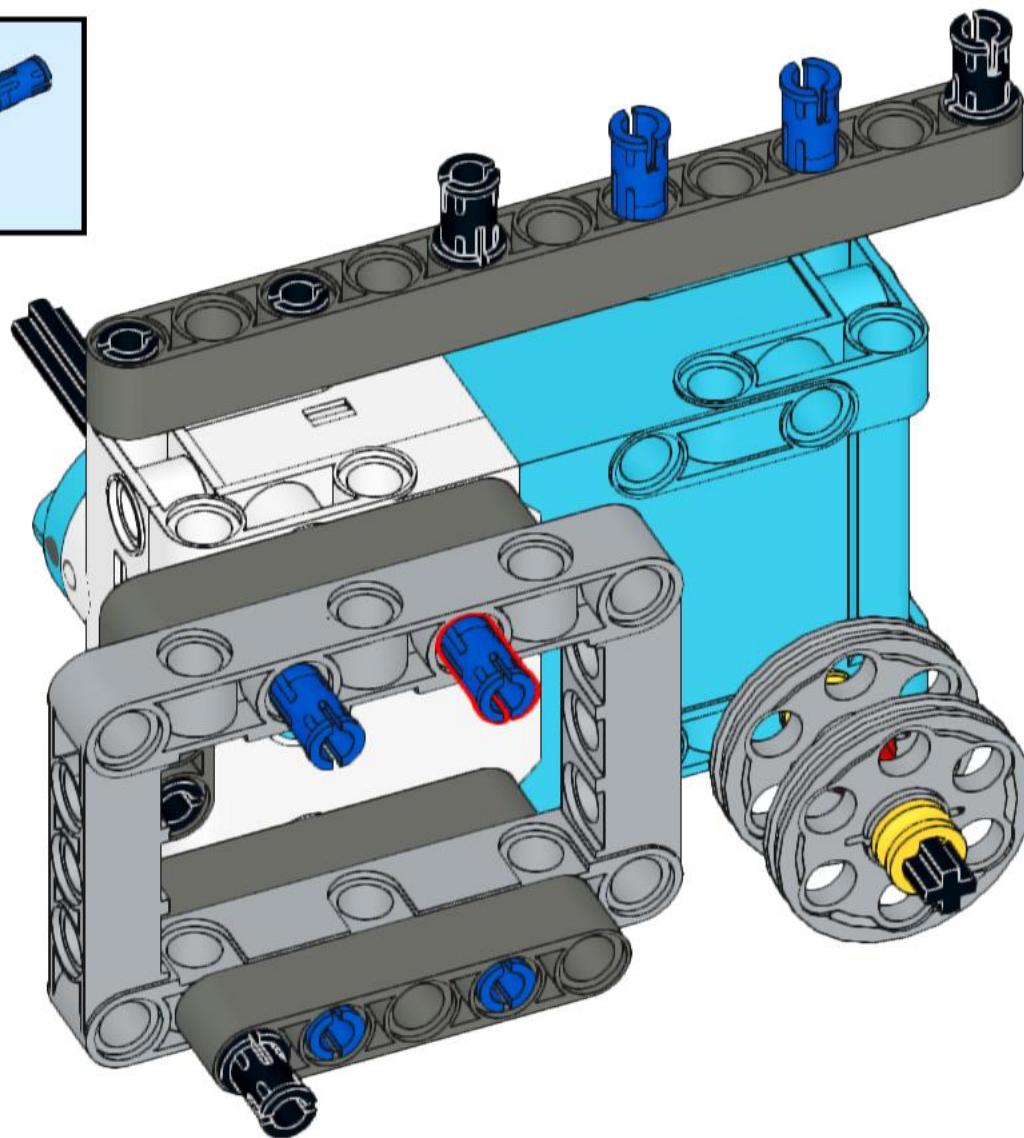
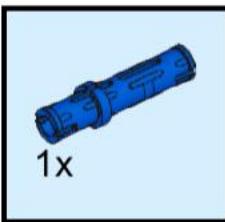
**14**



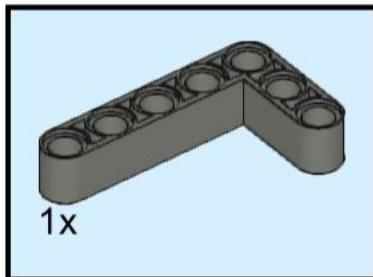
**15**



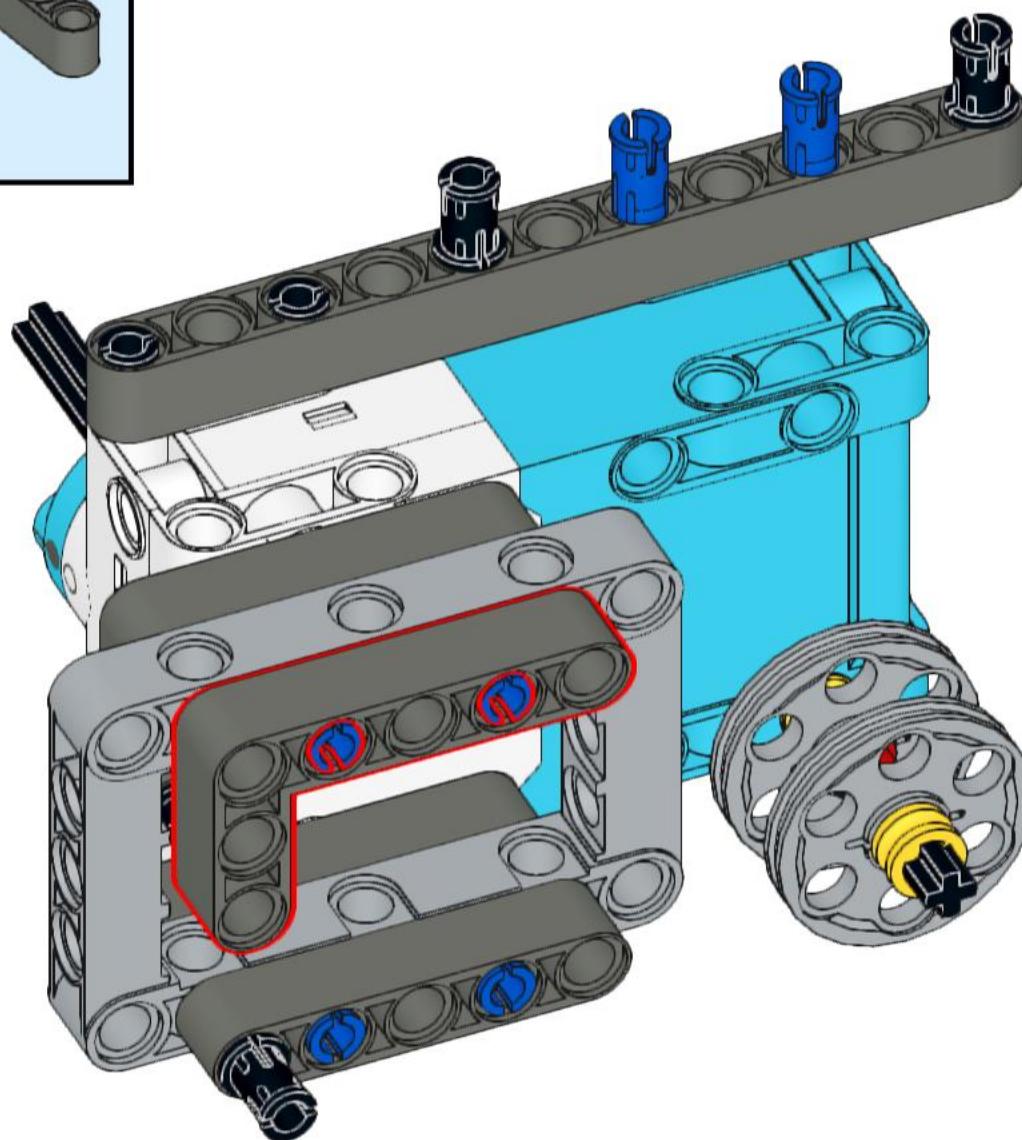
**16**



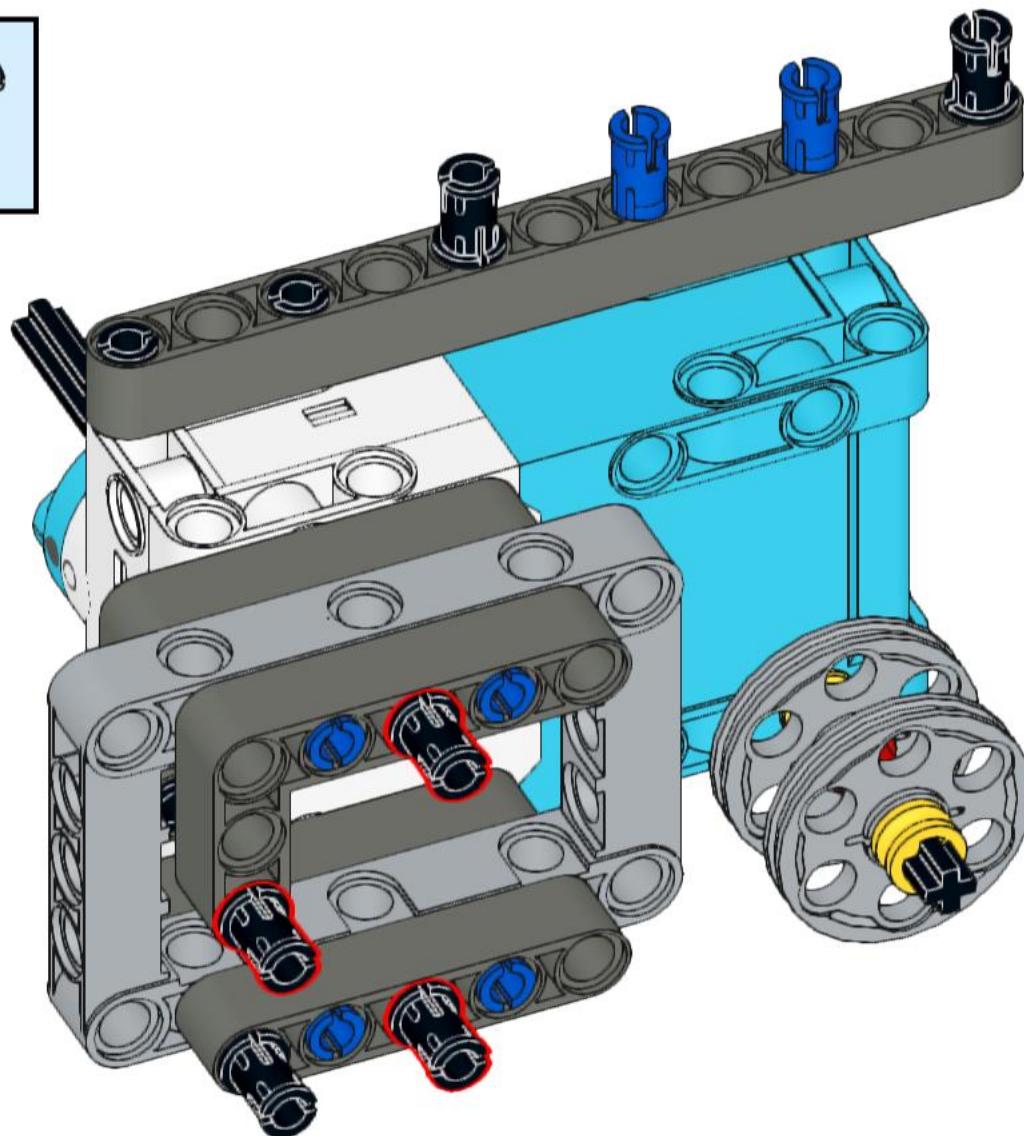
**17**



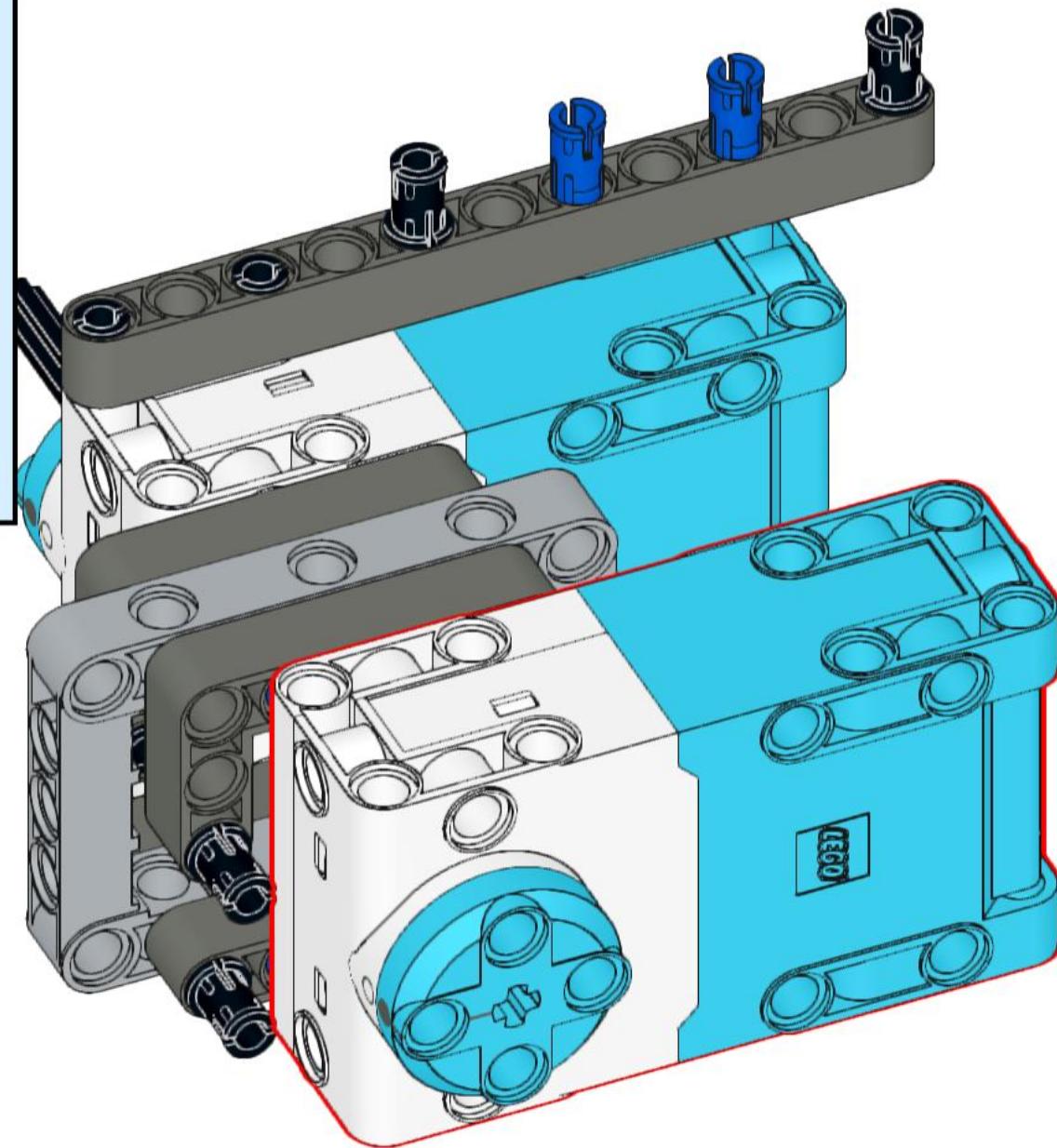
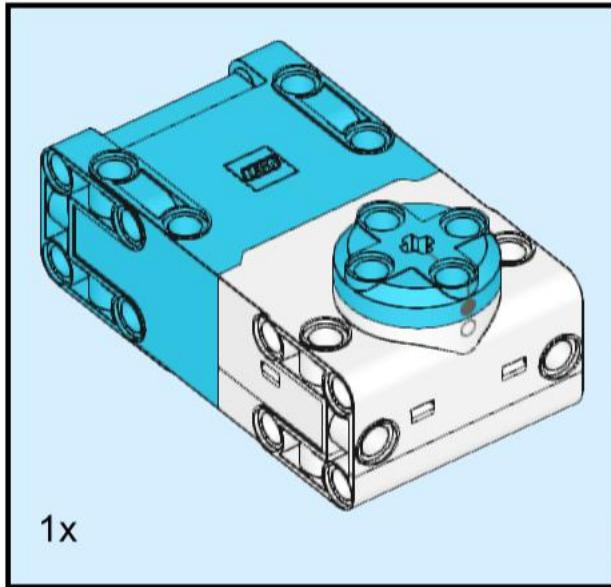
1x



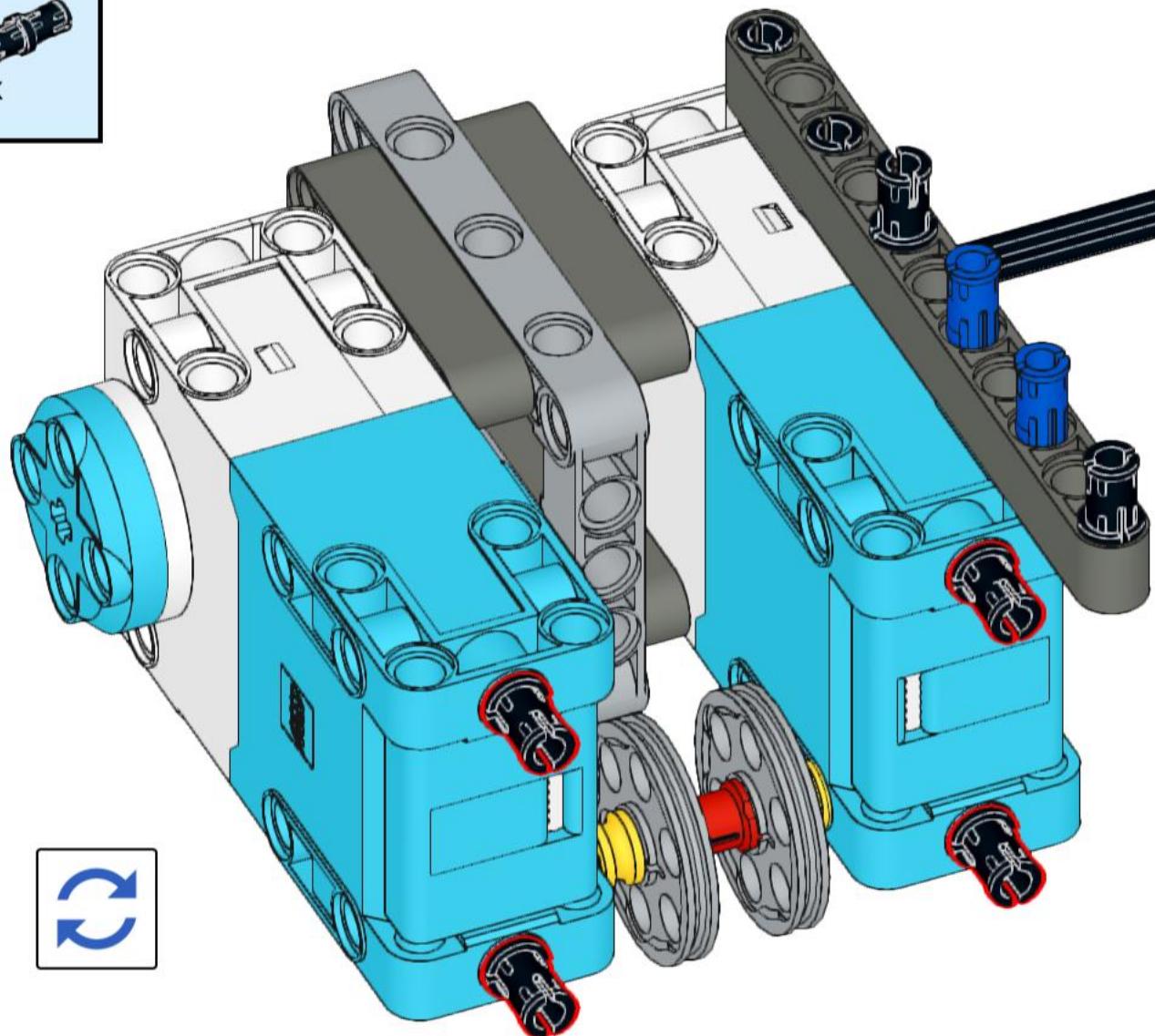
**18**



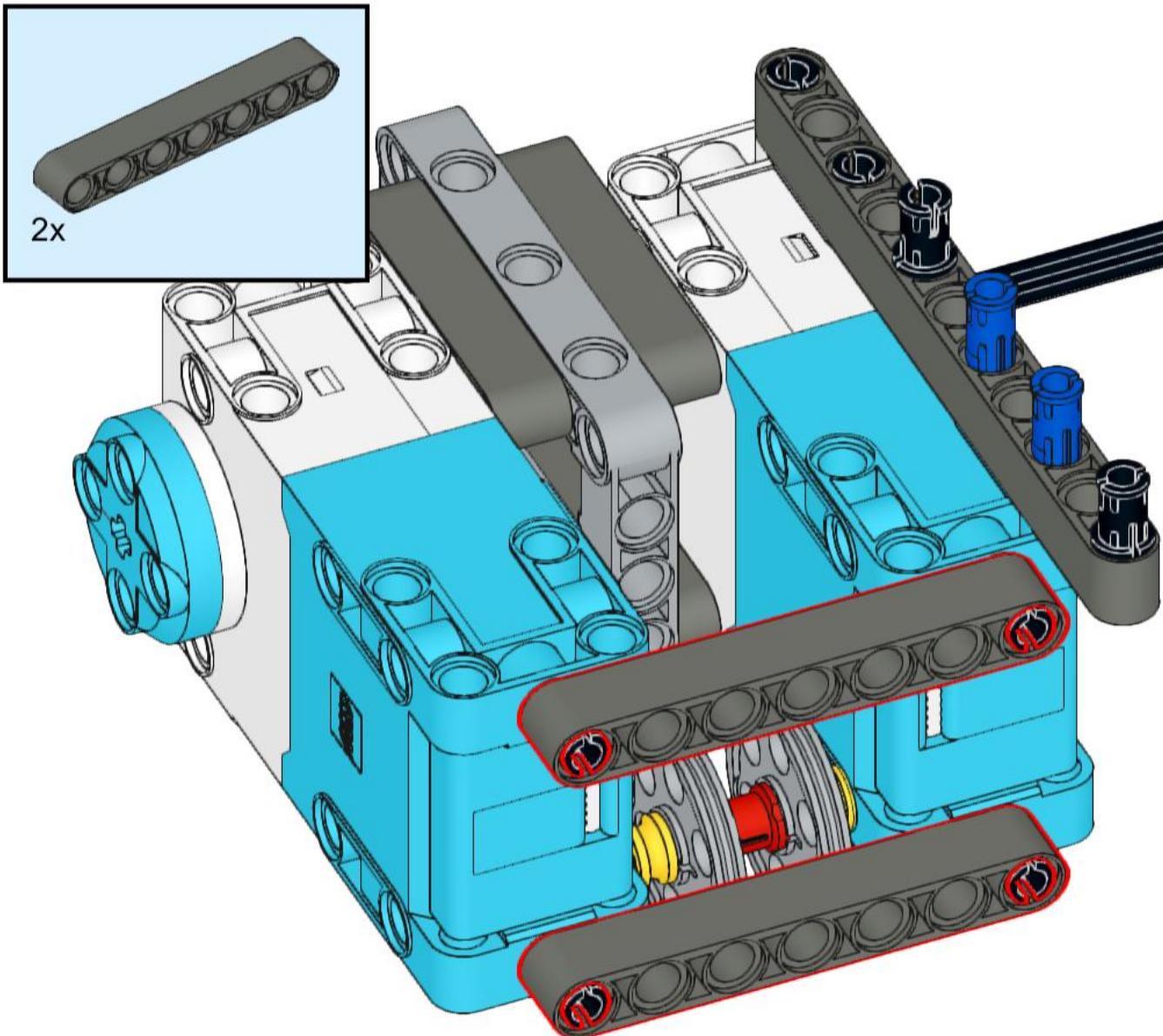
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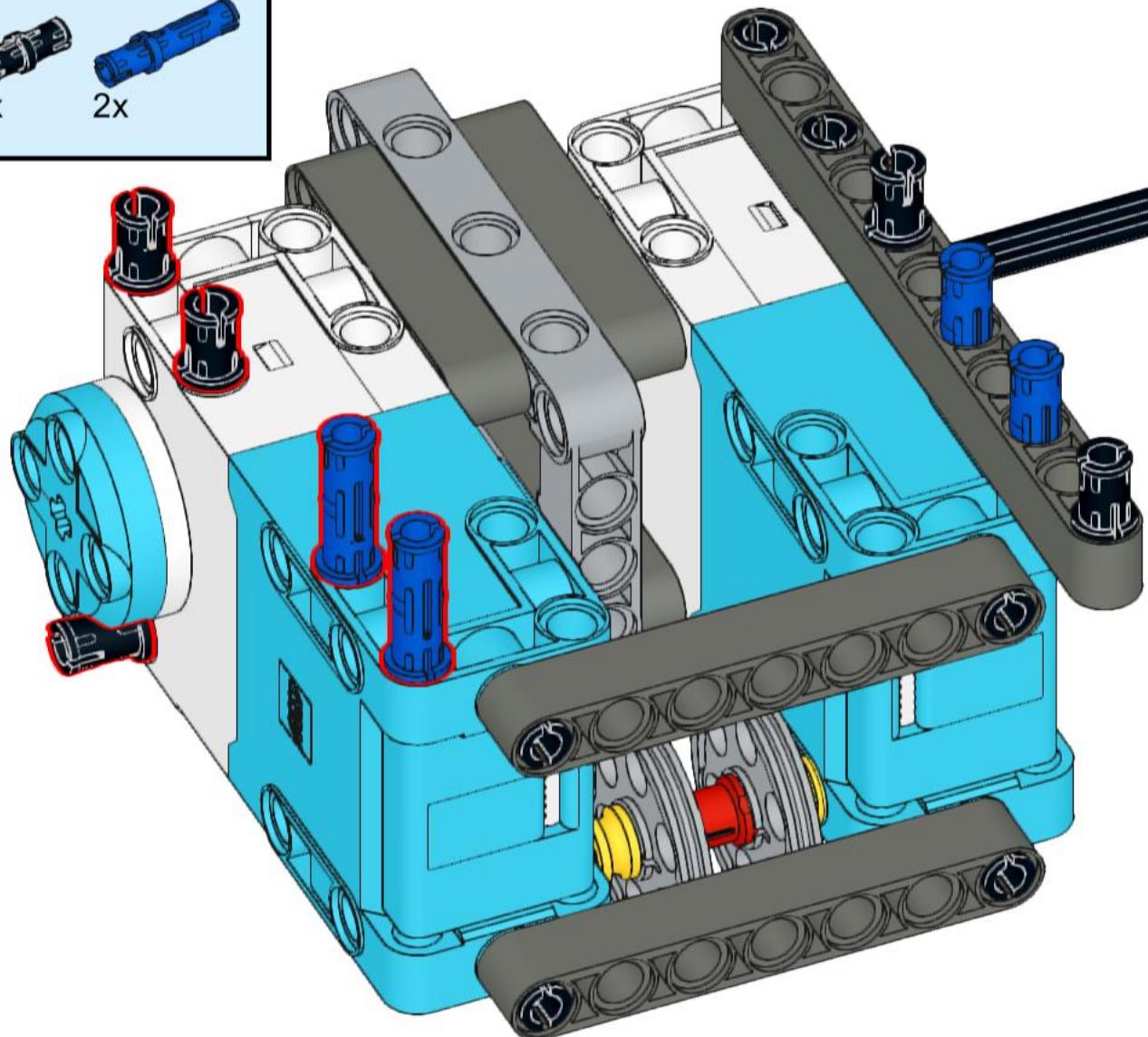
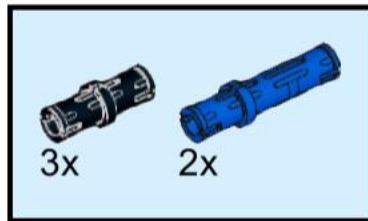
**20**



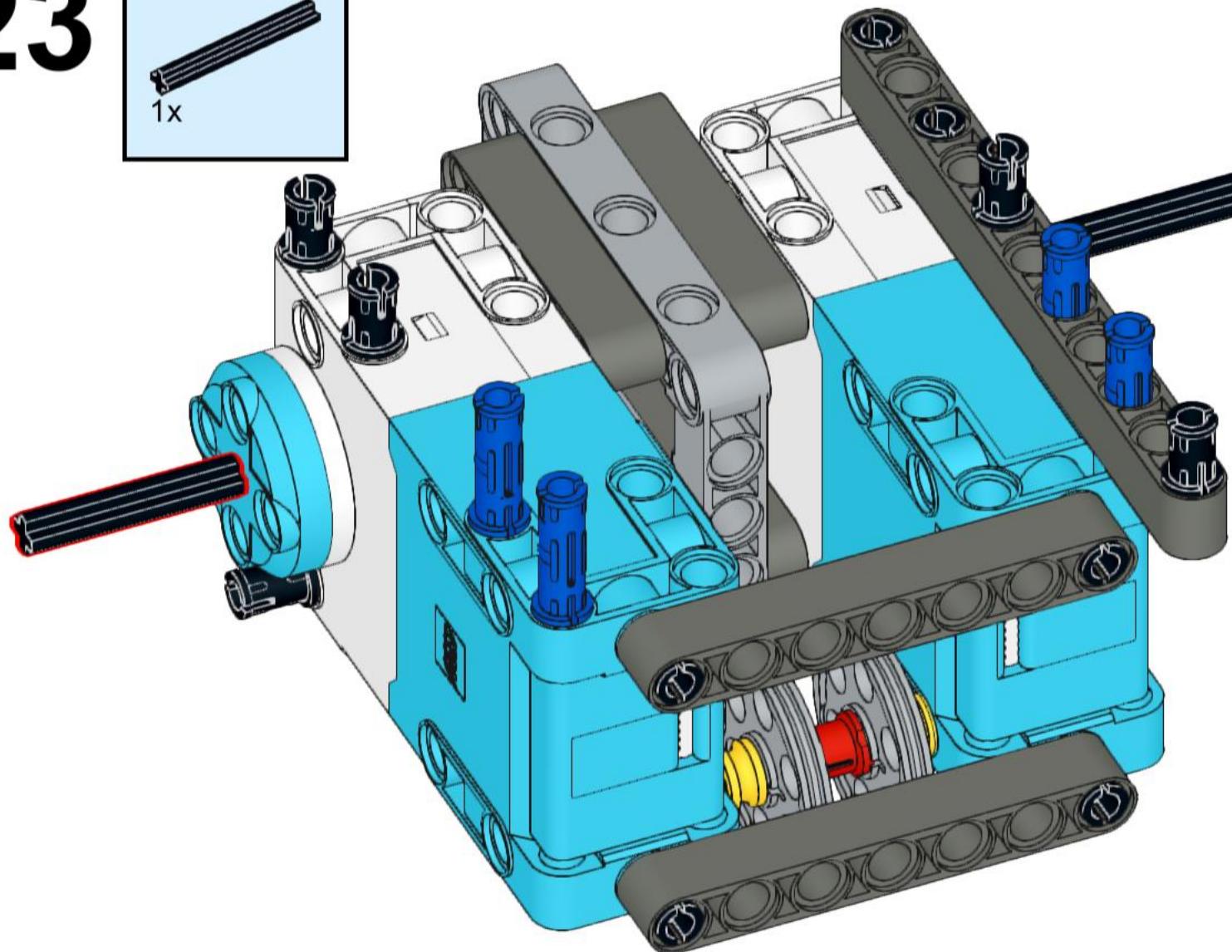
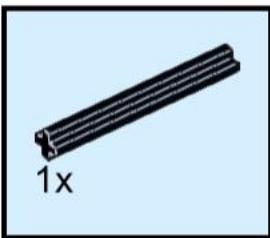
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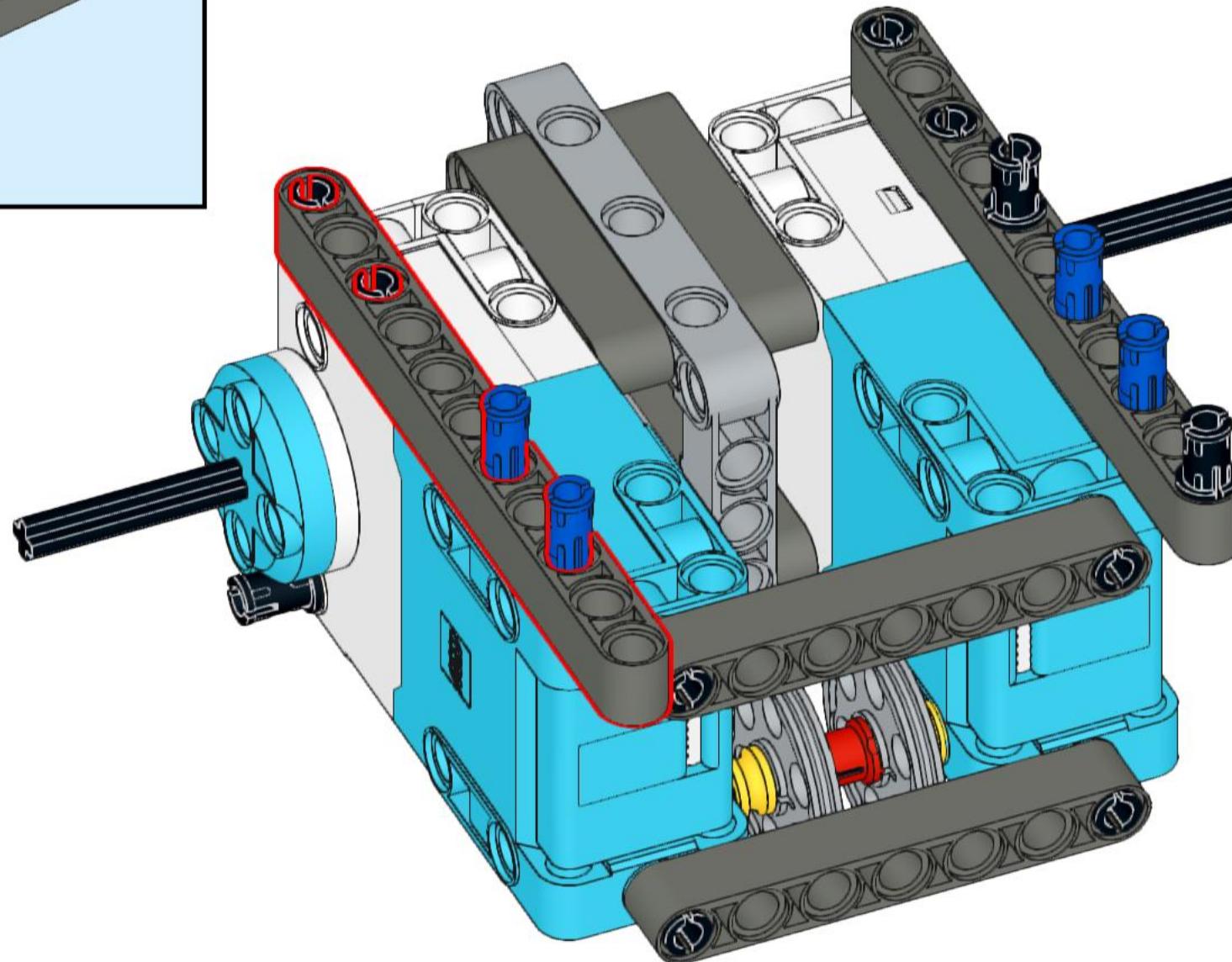
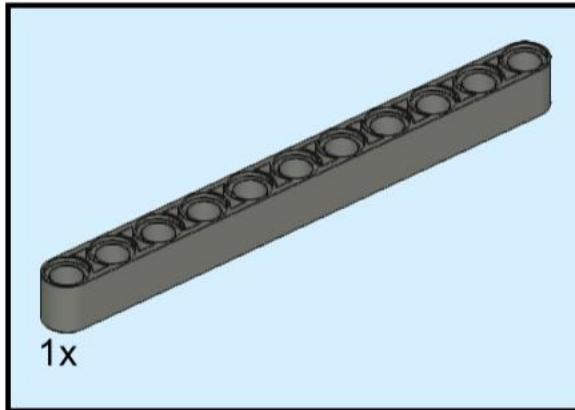
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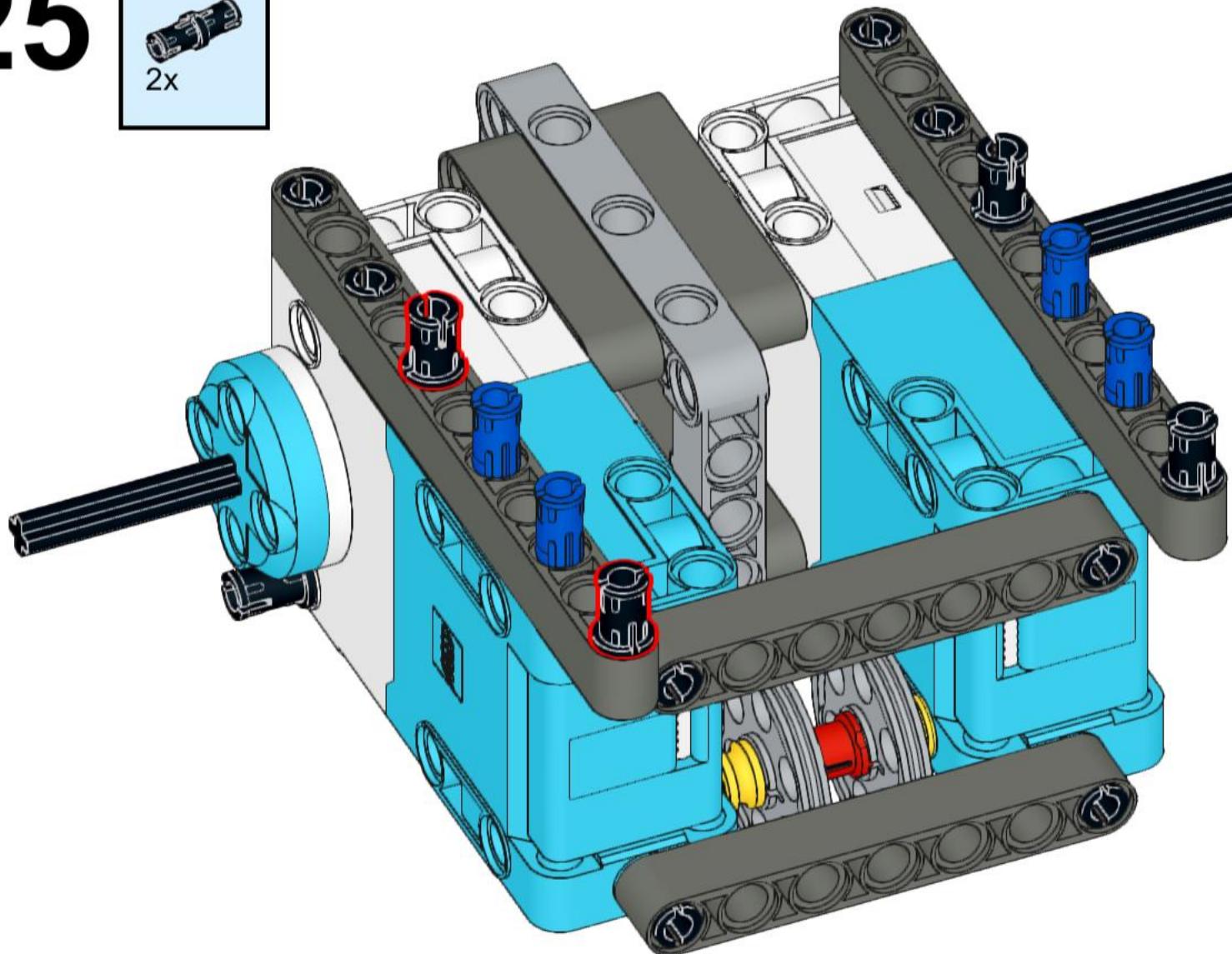
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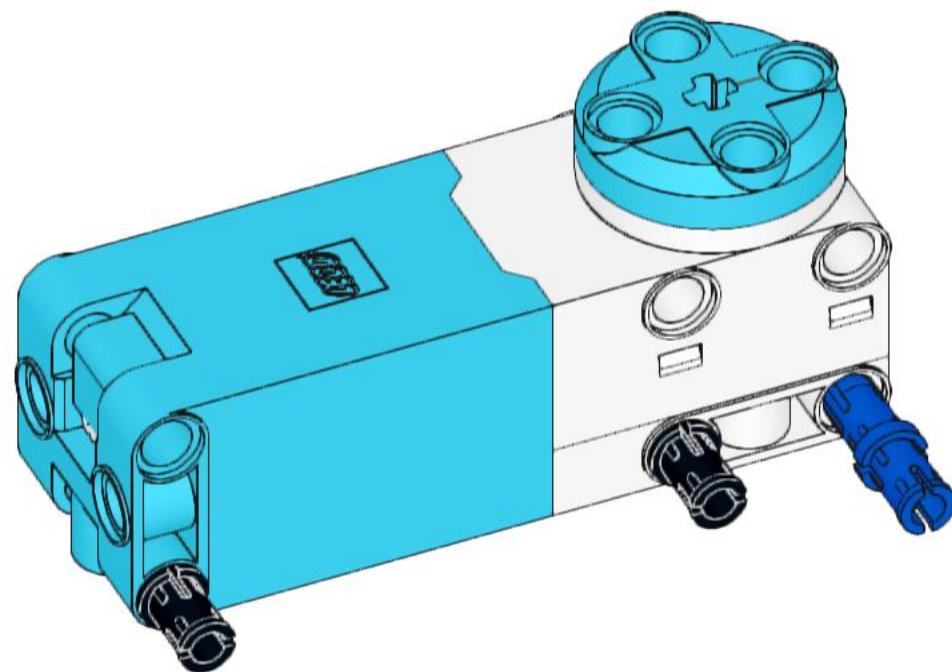
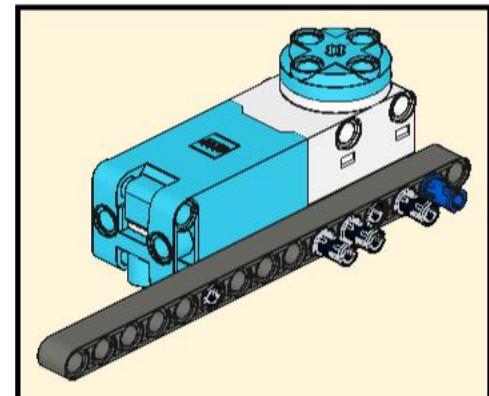
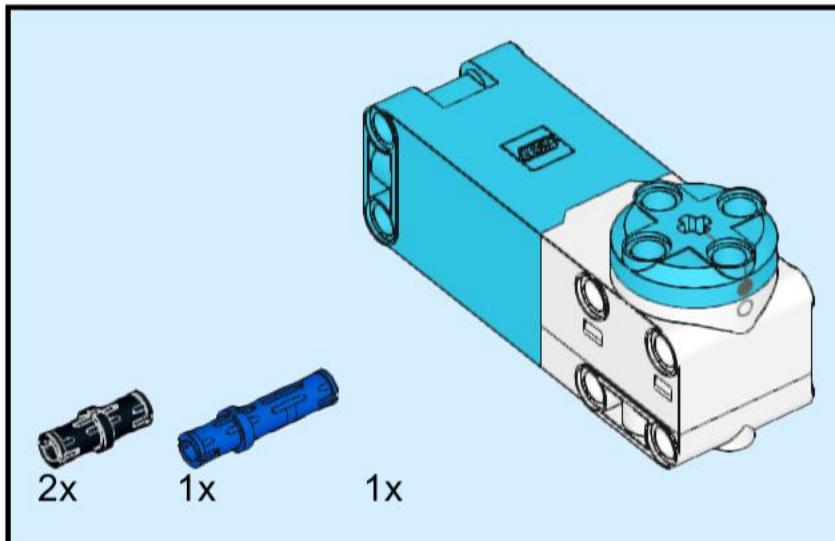
**24**



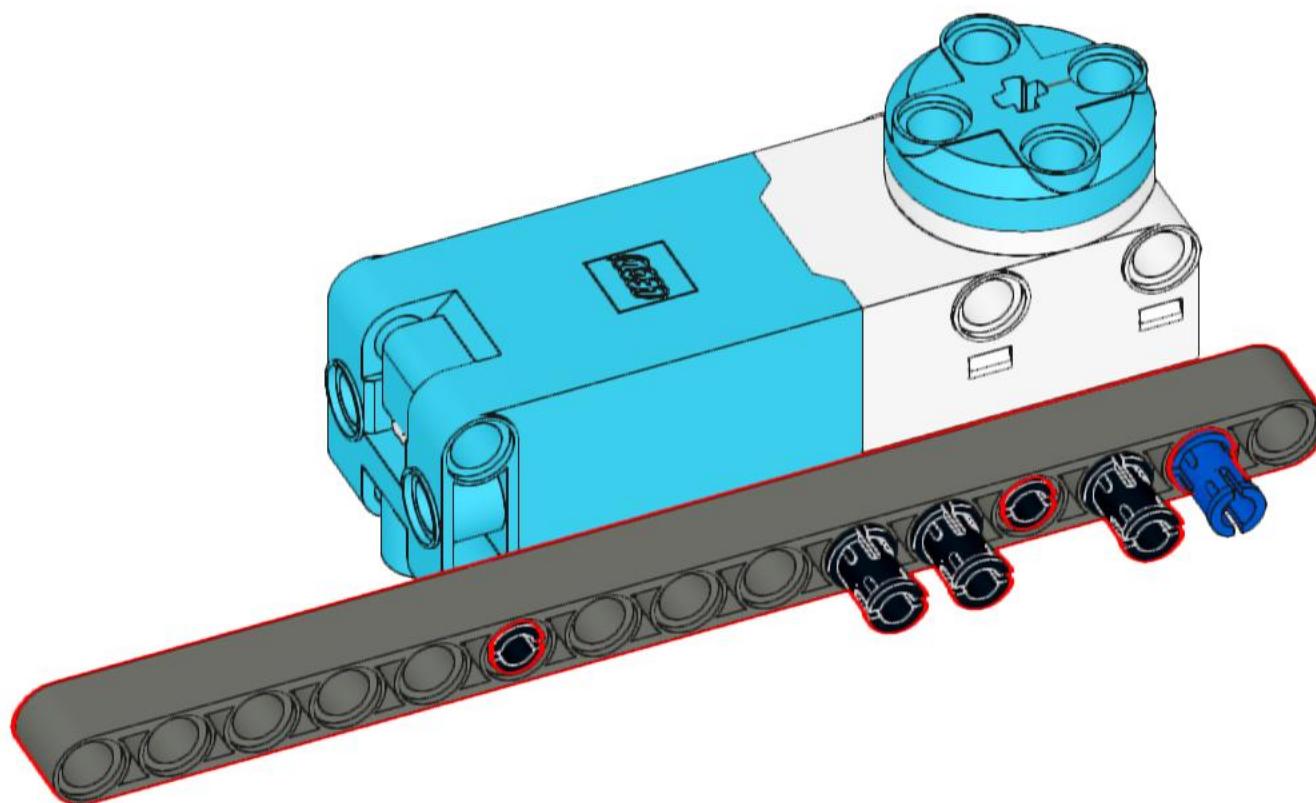
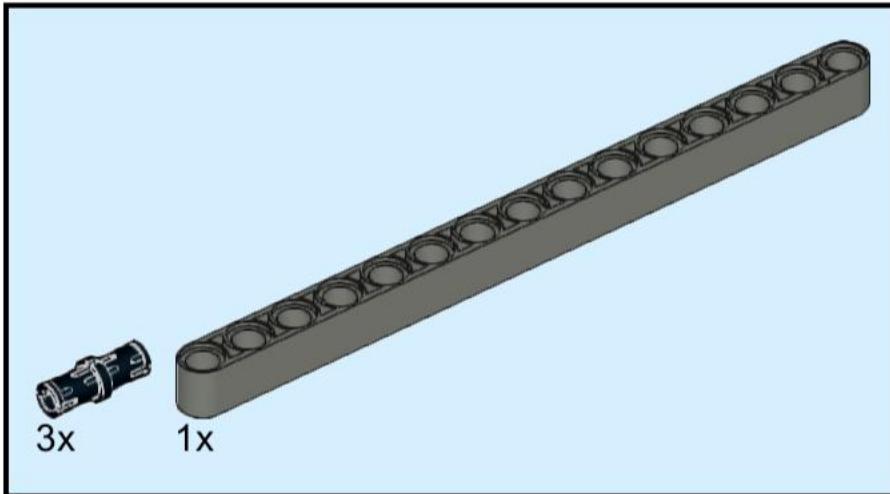
# 25



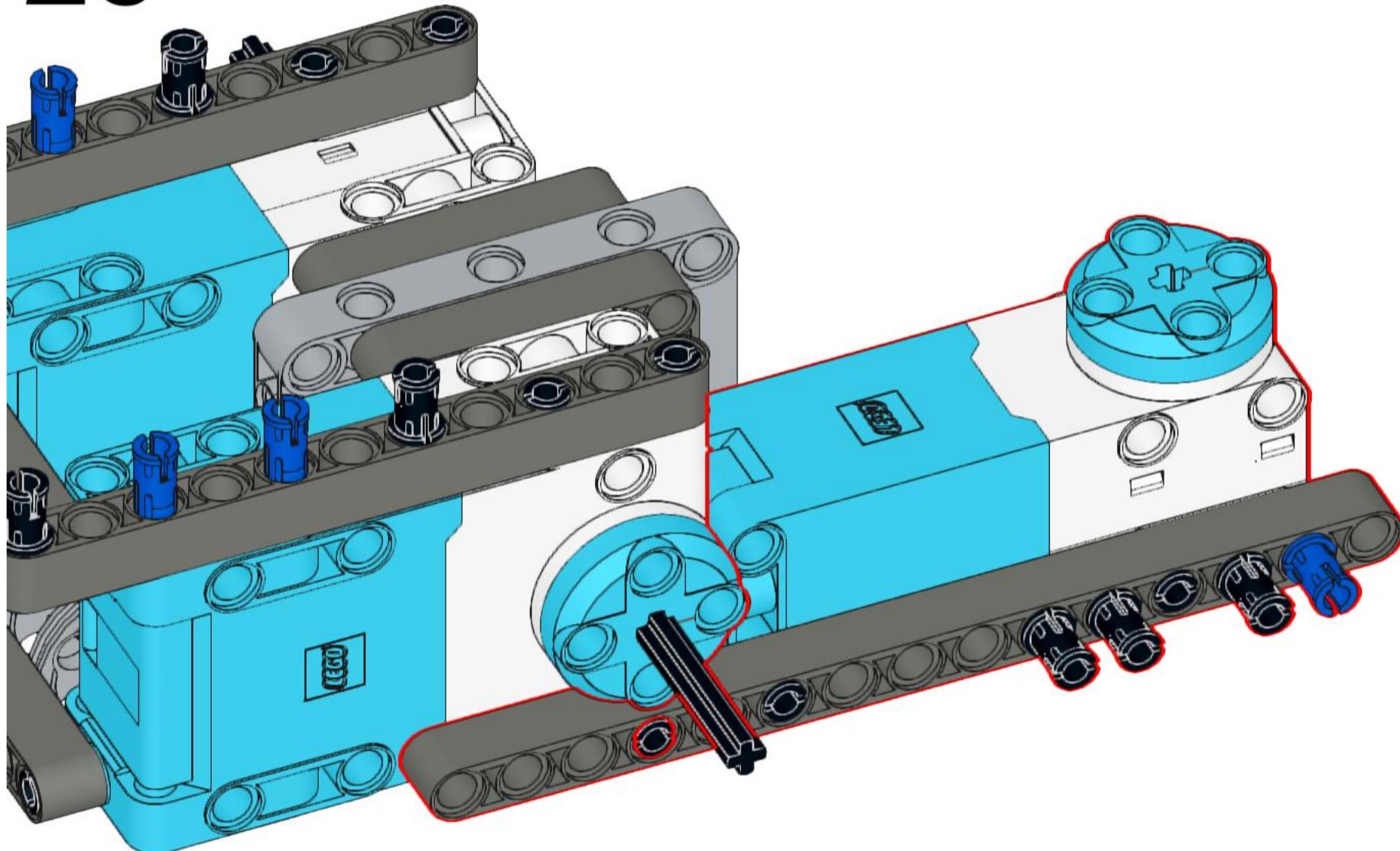
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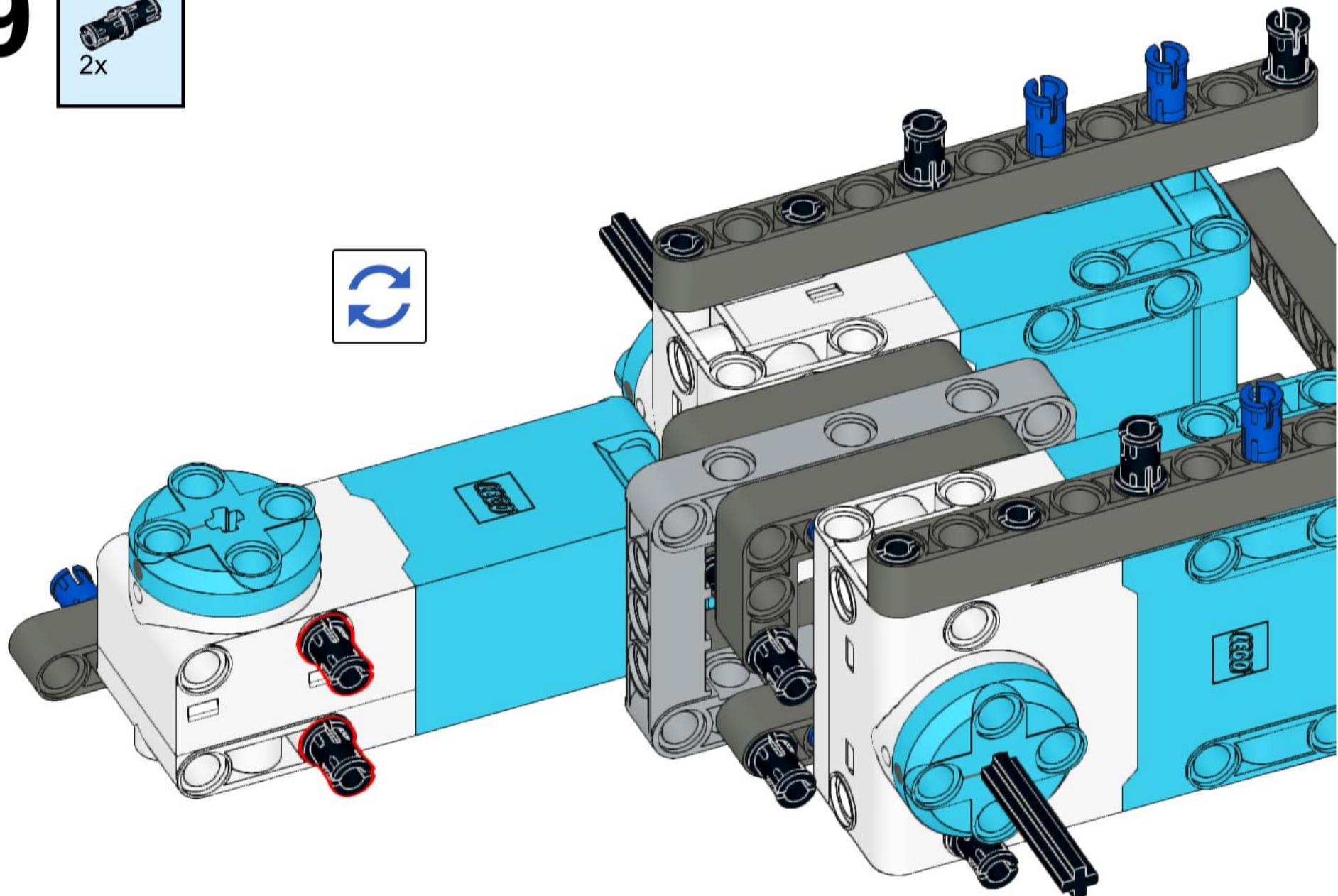
**27**



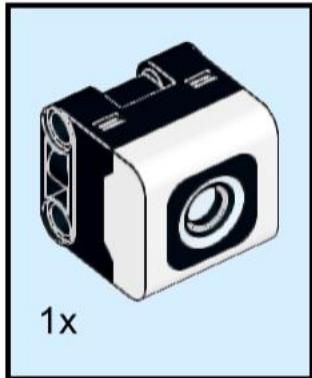
**28**



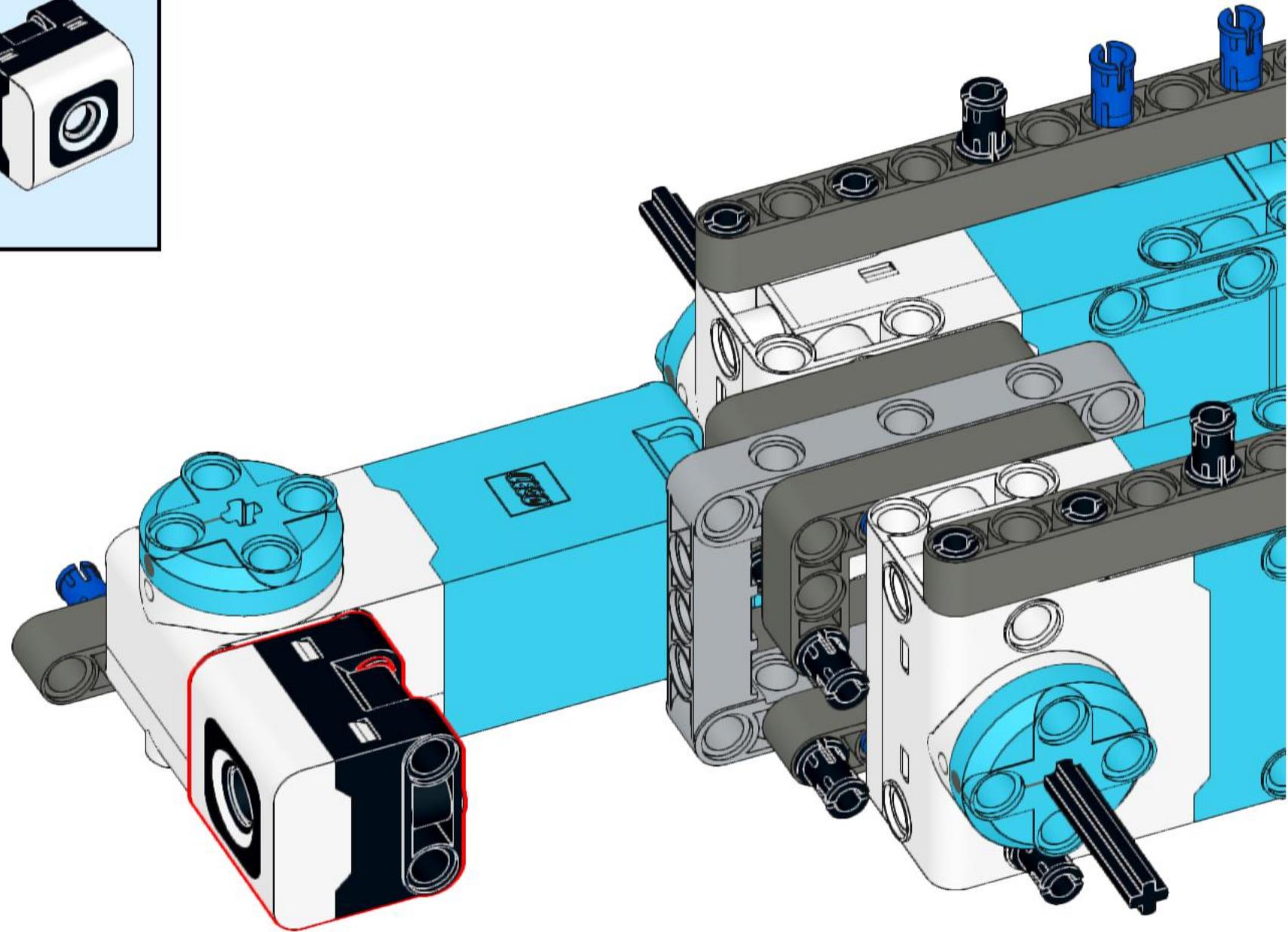
**29**



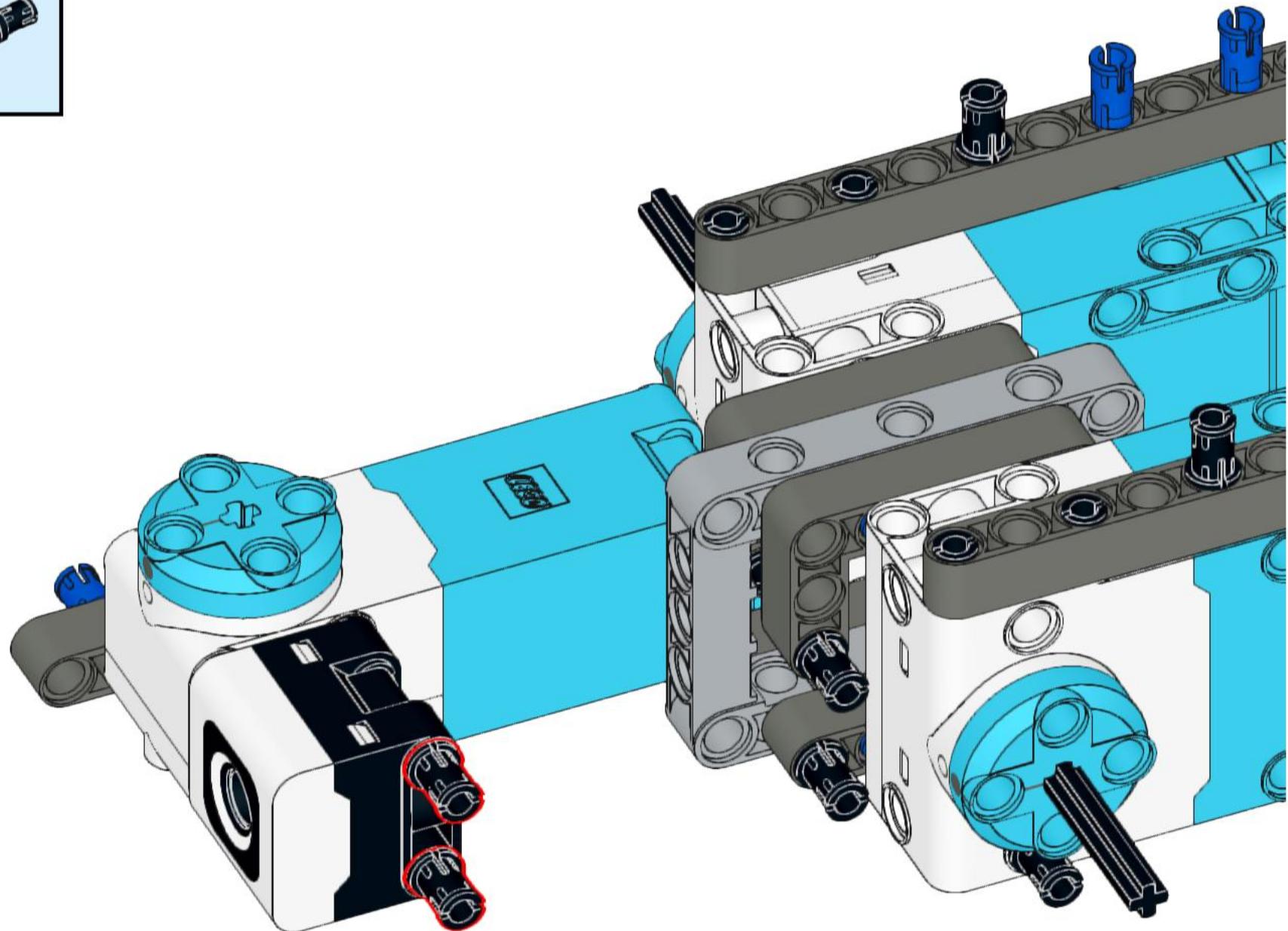
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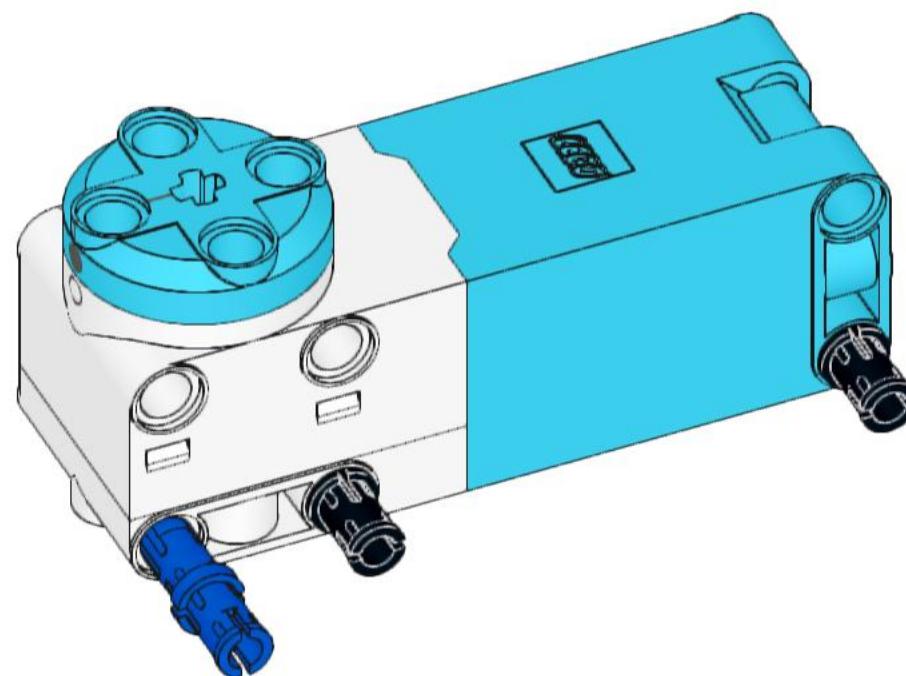
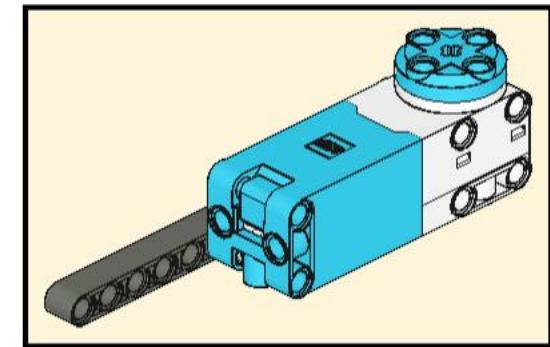
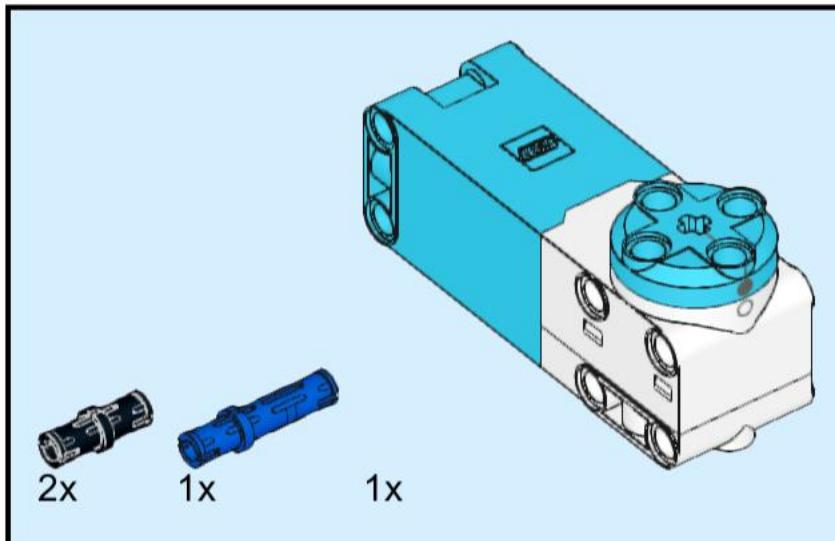
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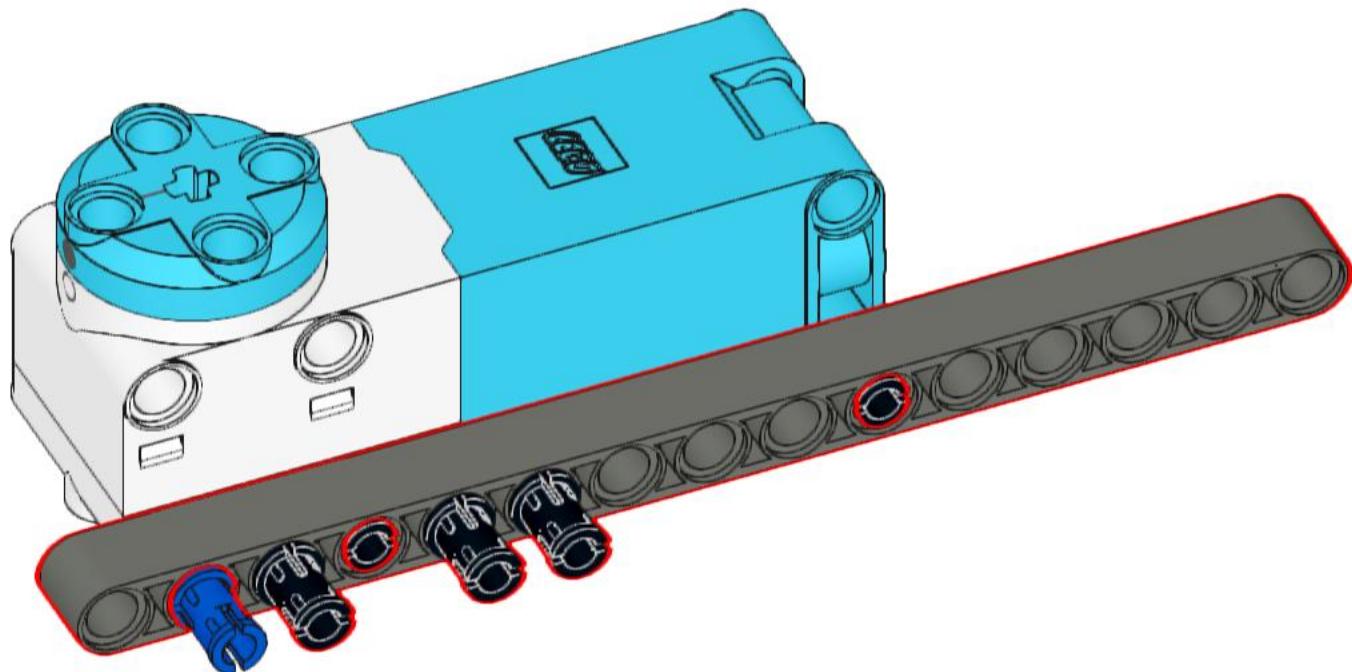
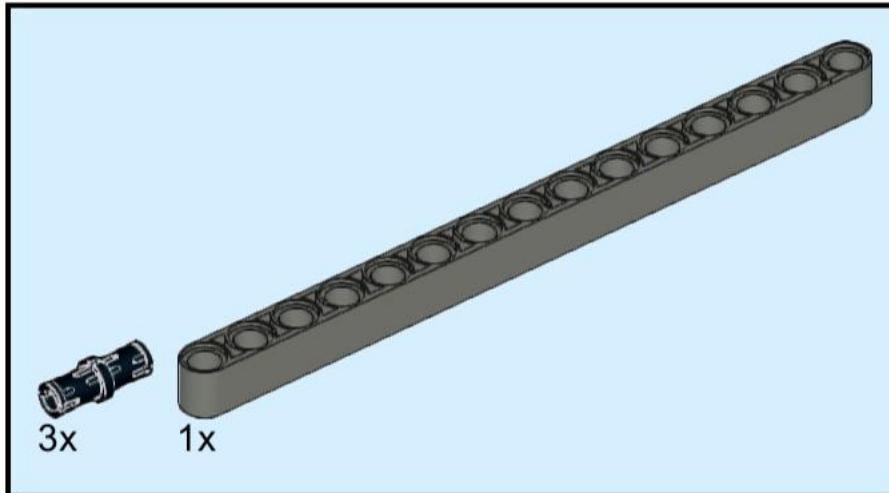
**31**

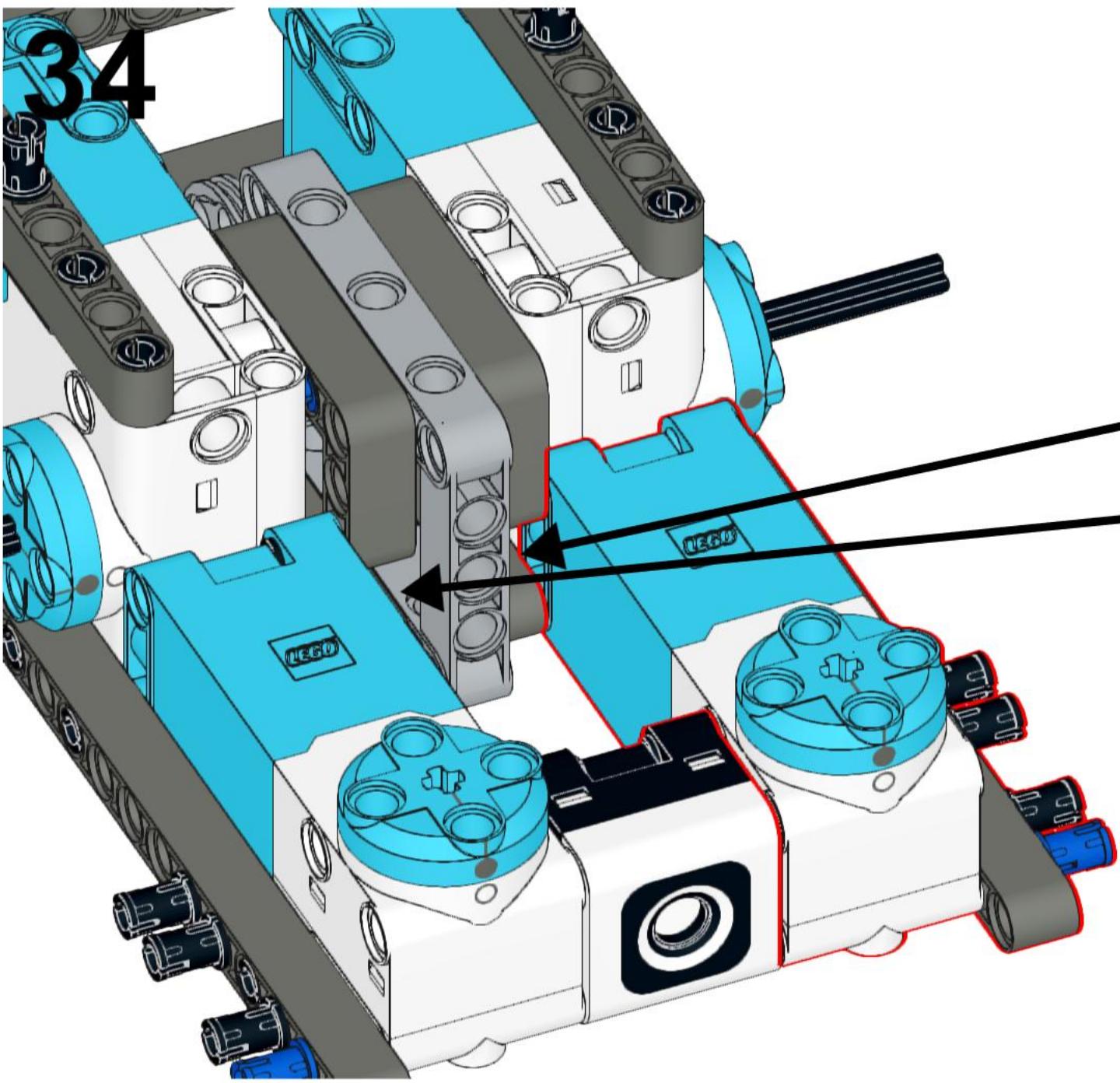


**32**



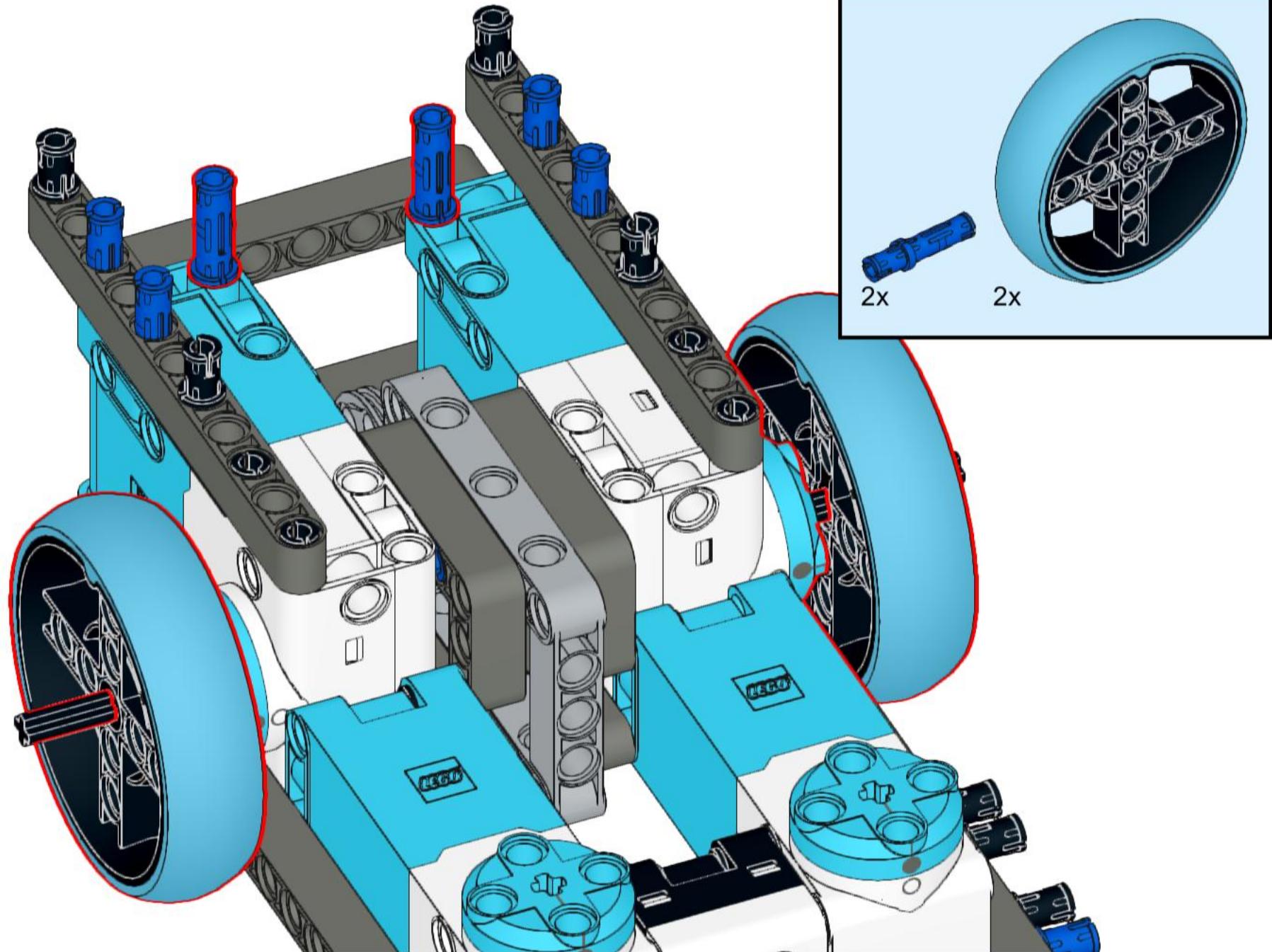
**33**



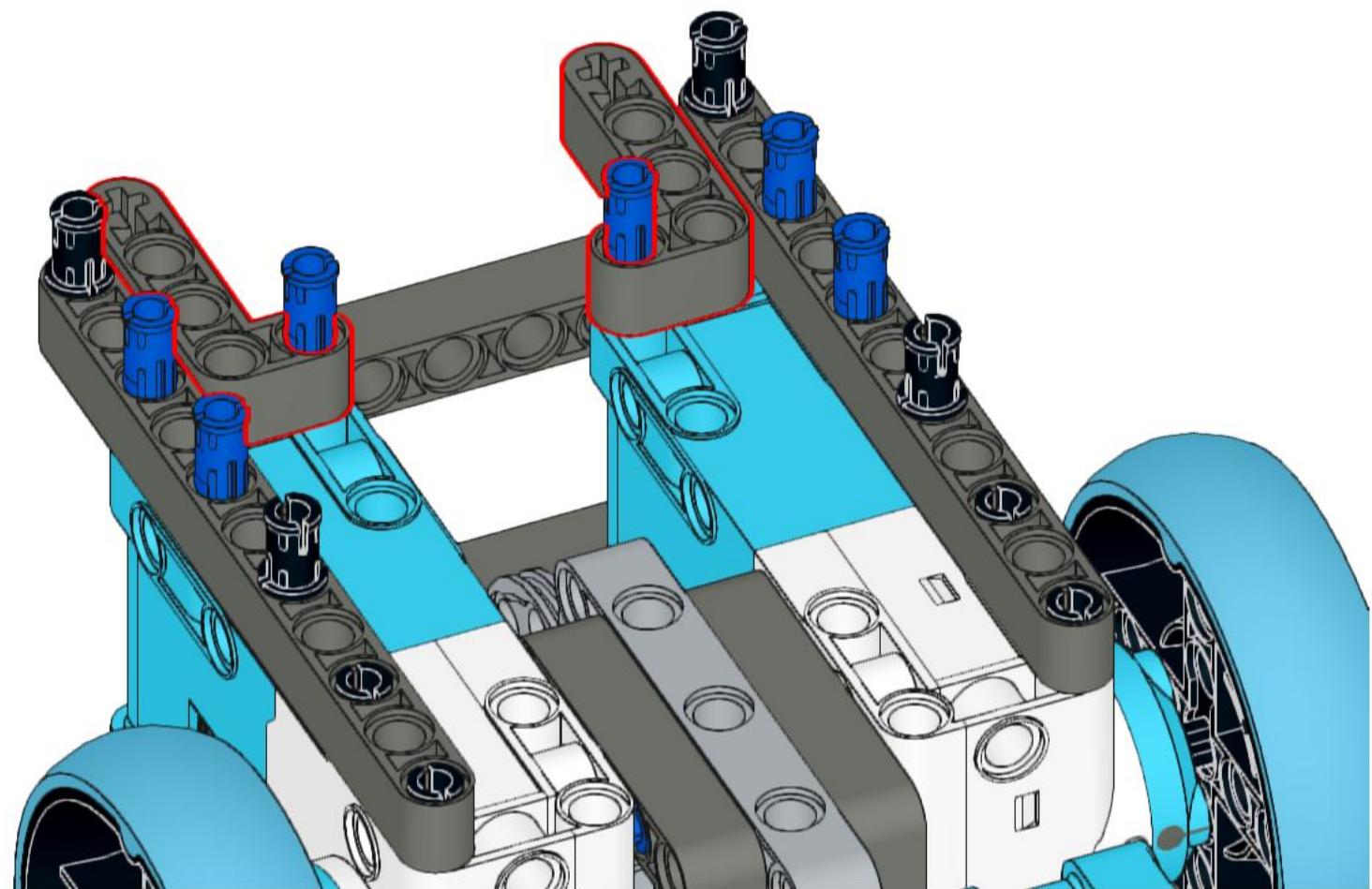
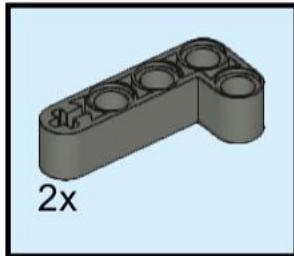


Tuck all three wires in through gaps here. Wires should go all the way through the back of the robot. May have to disassemble slightly to get them in.

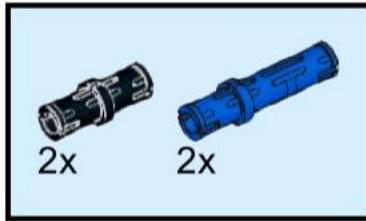
**35**



**36**

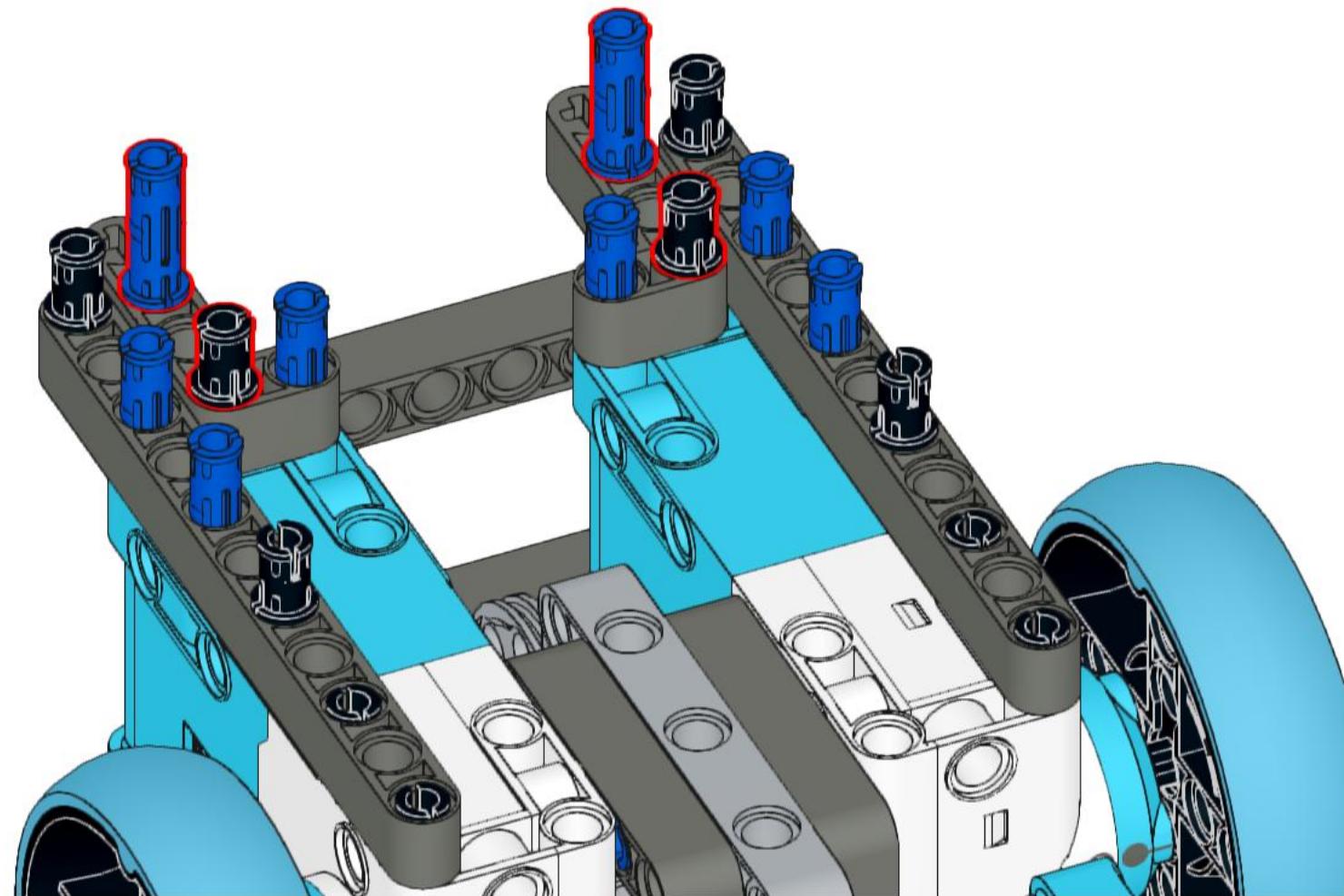


**37**

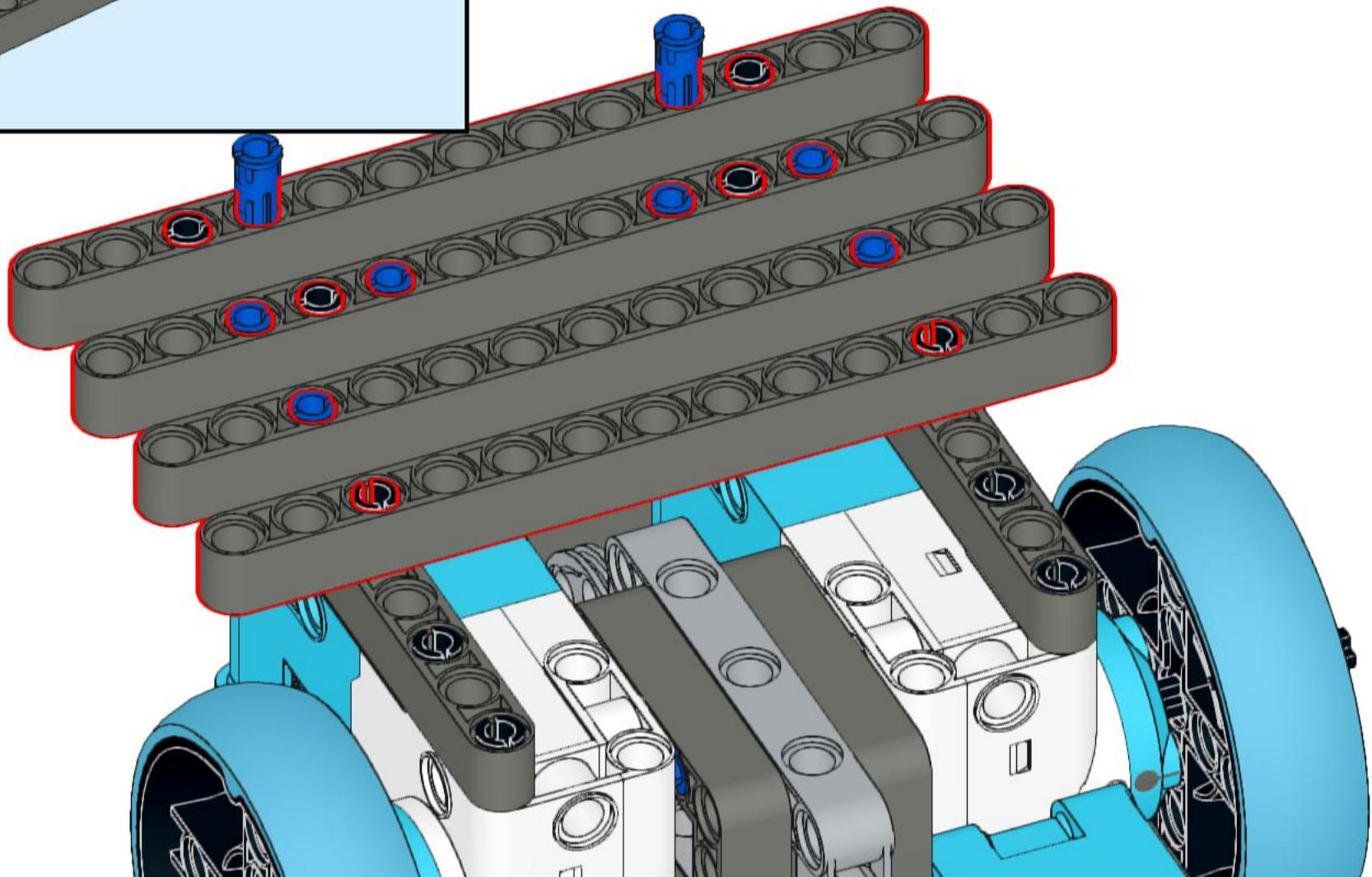
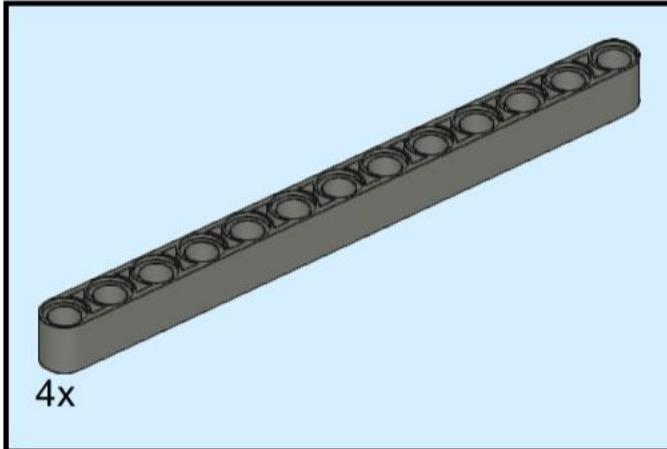


2x

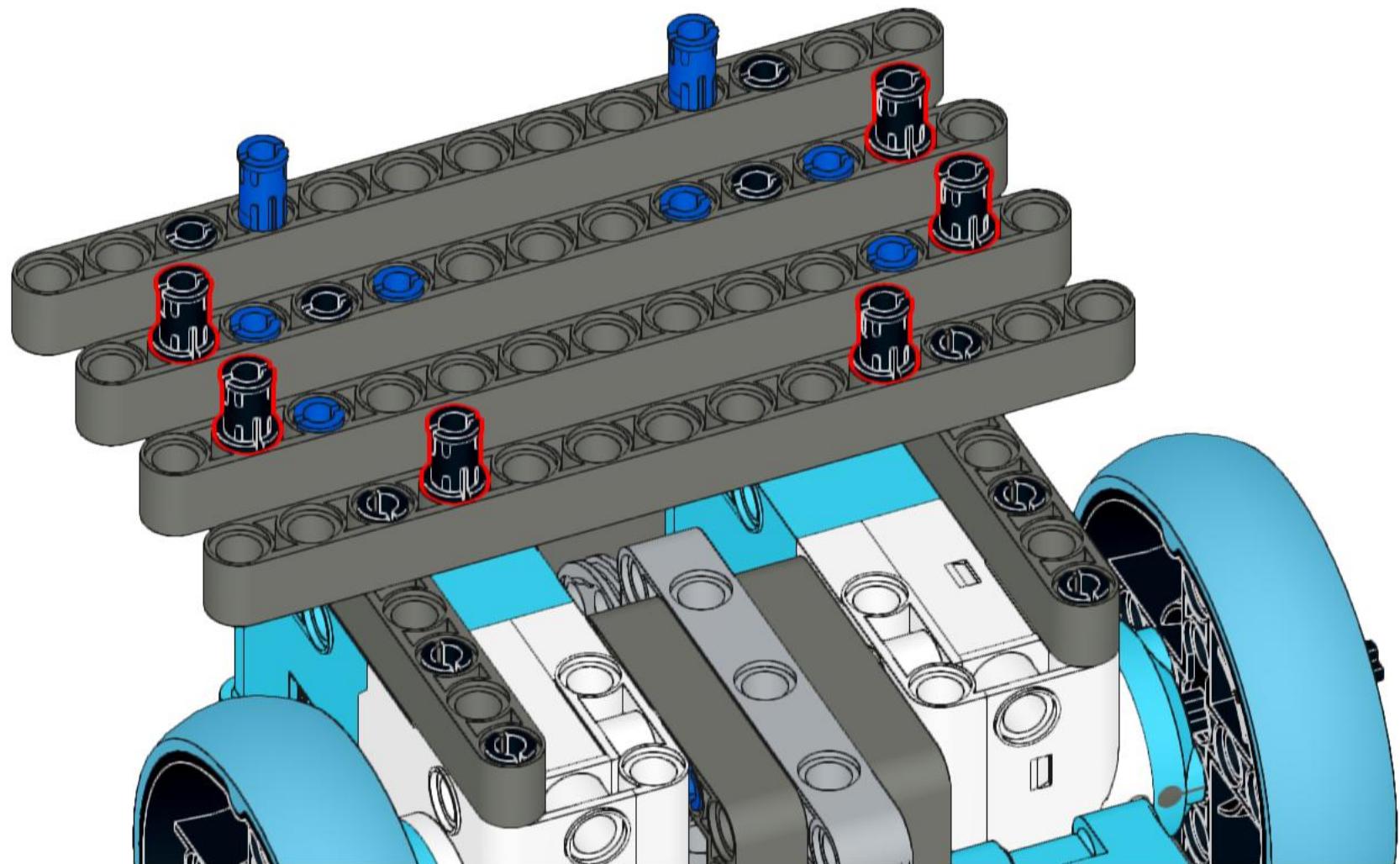
2x



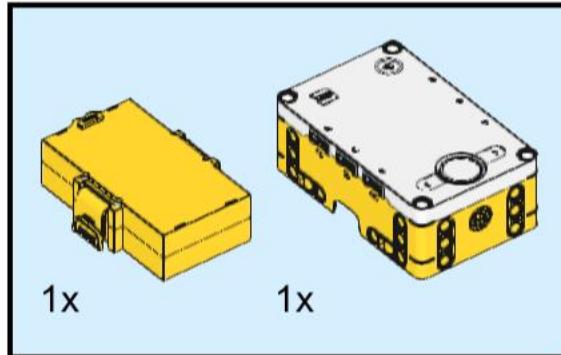
**38**



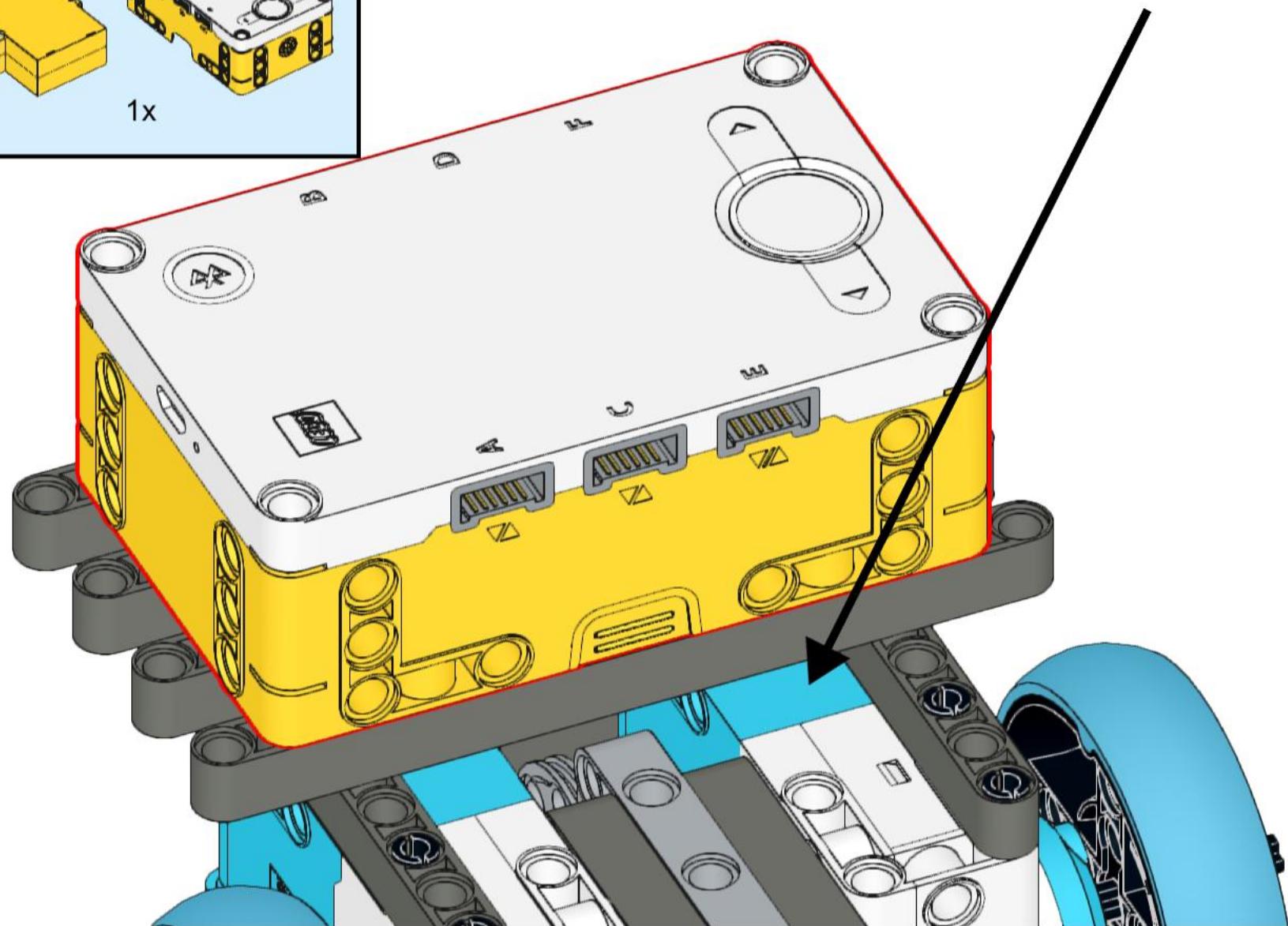
39



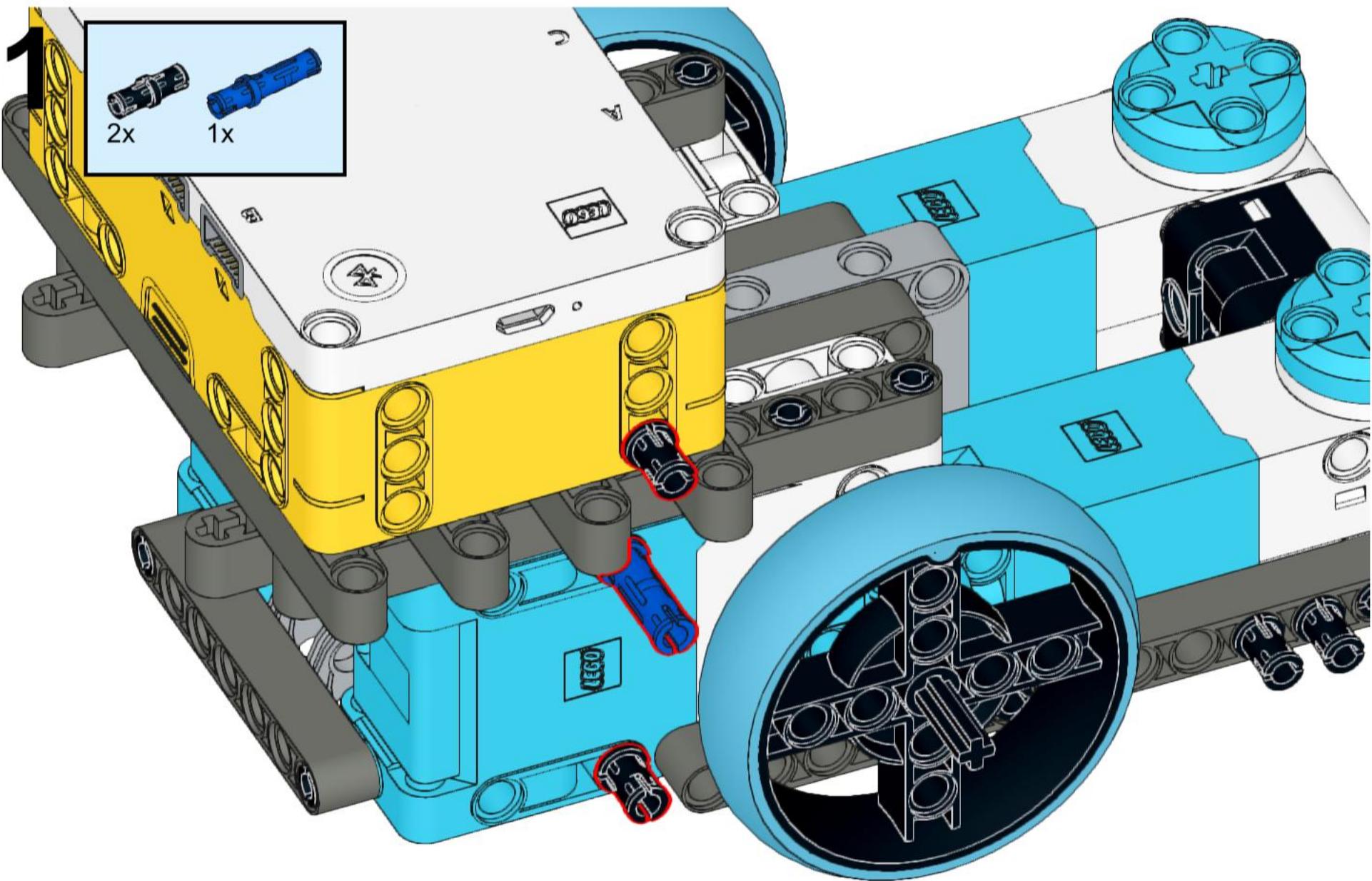
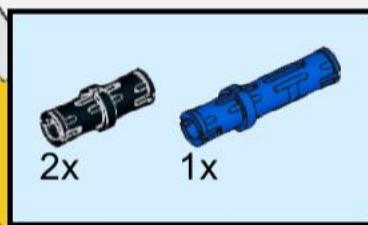
**40**



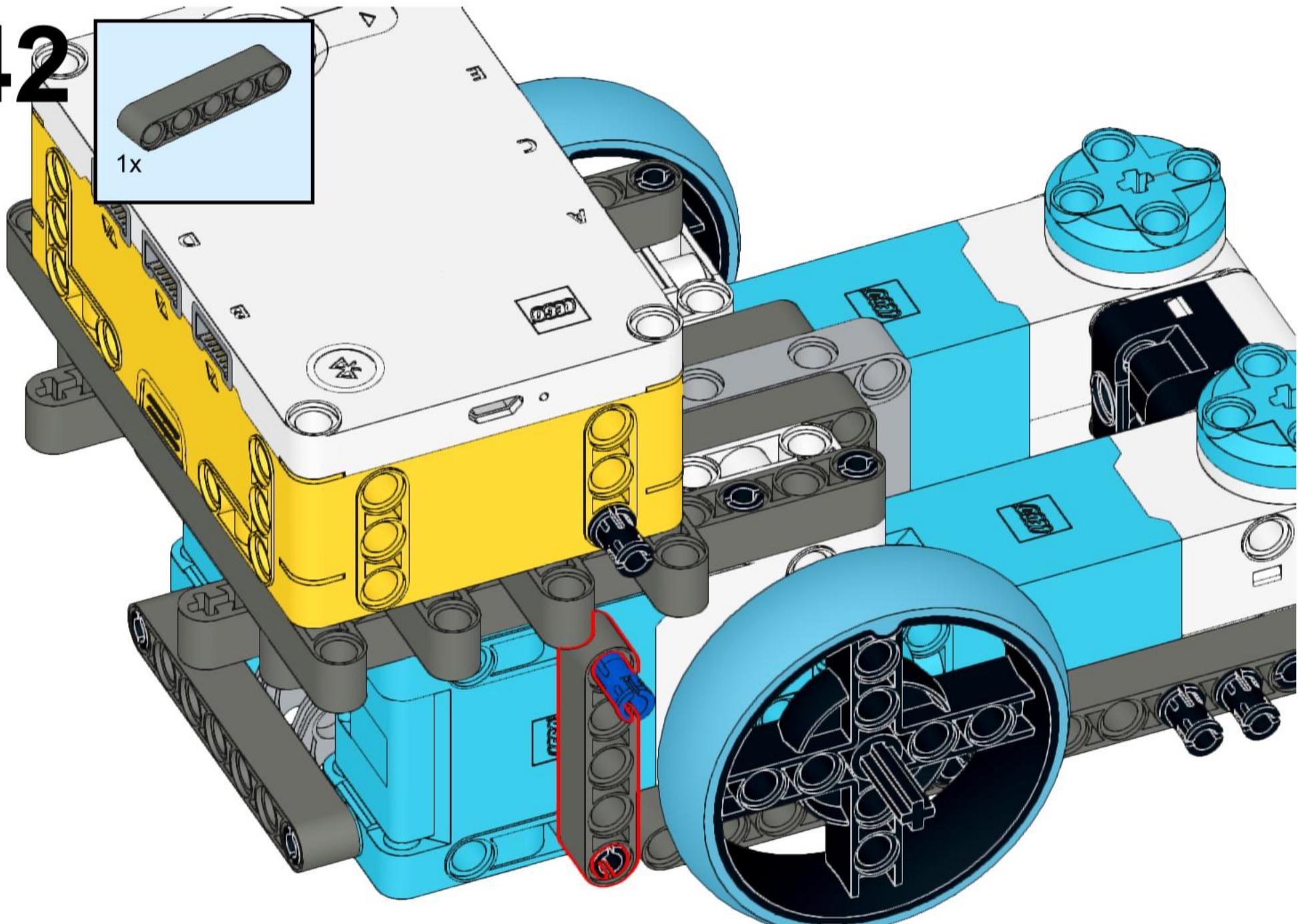
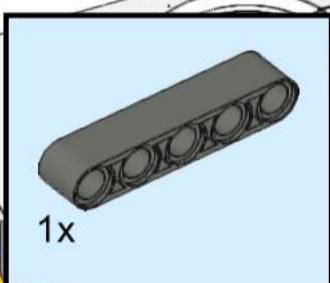
Drive motor wires will pass under the hub and out the front in this area



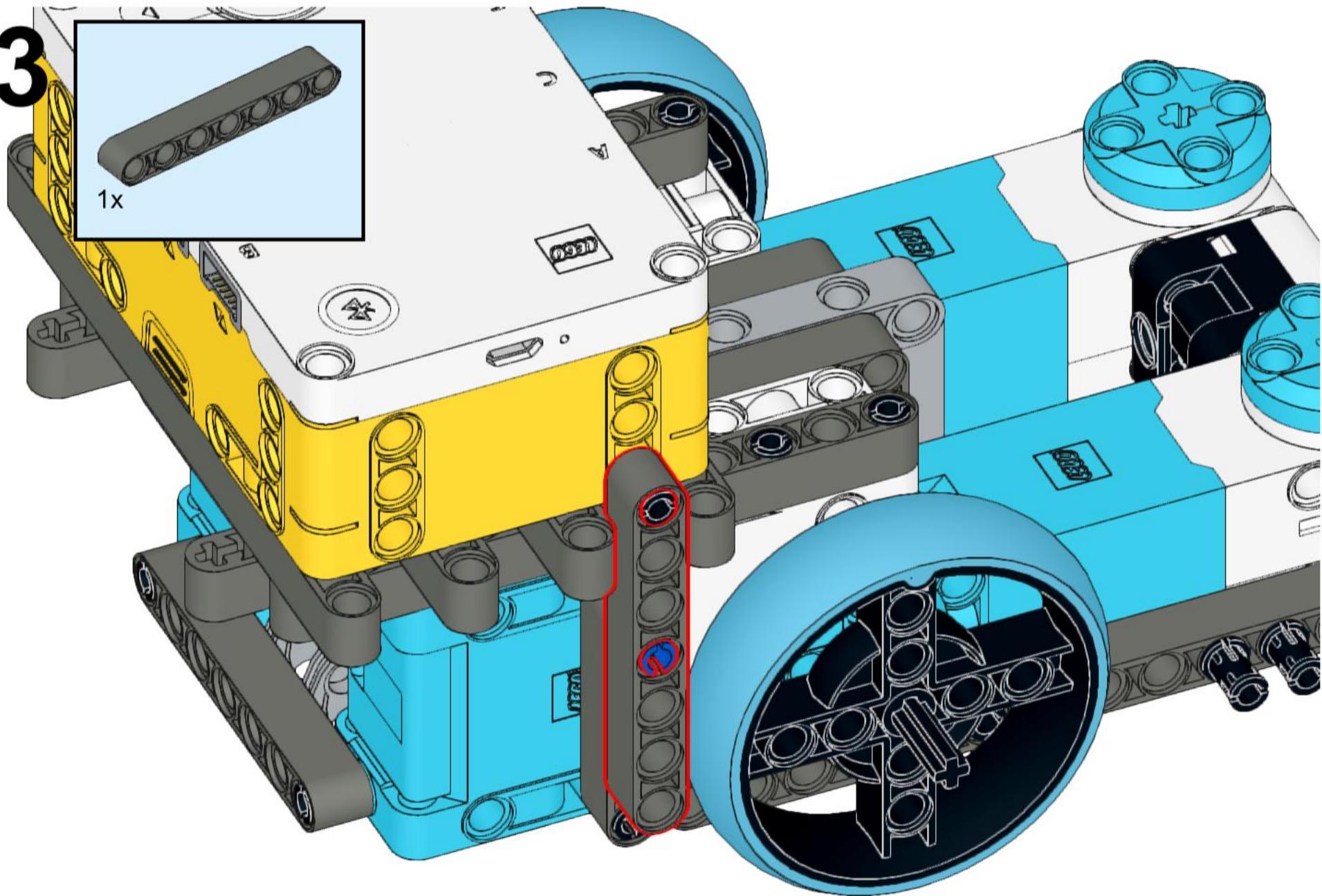
**41**



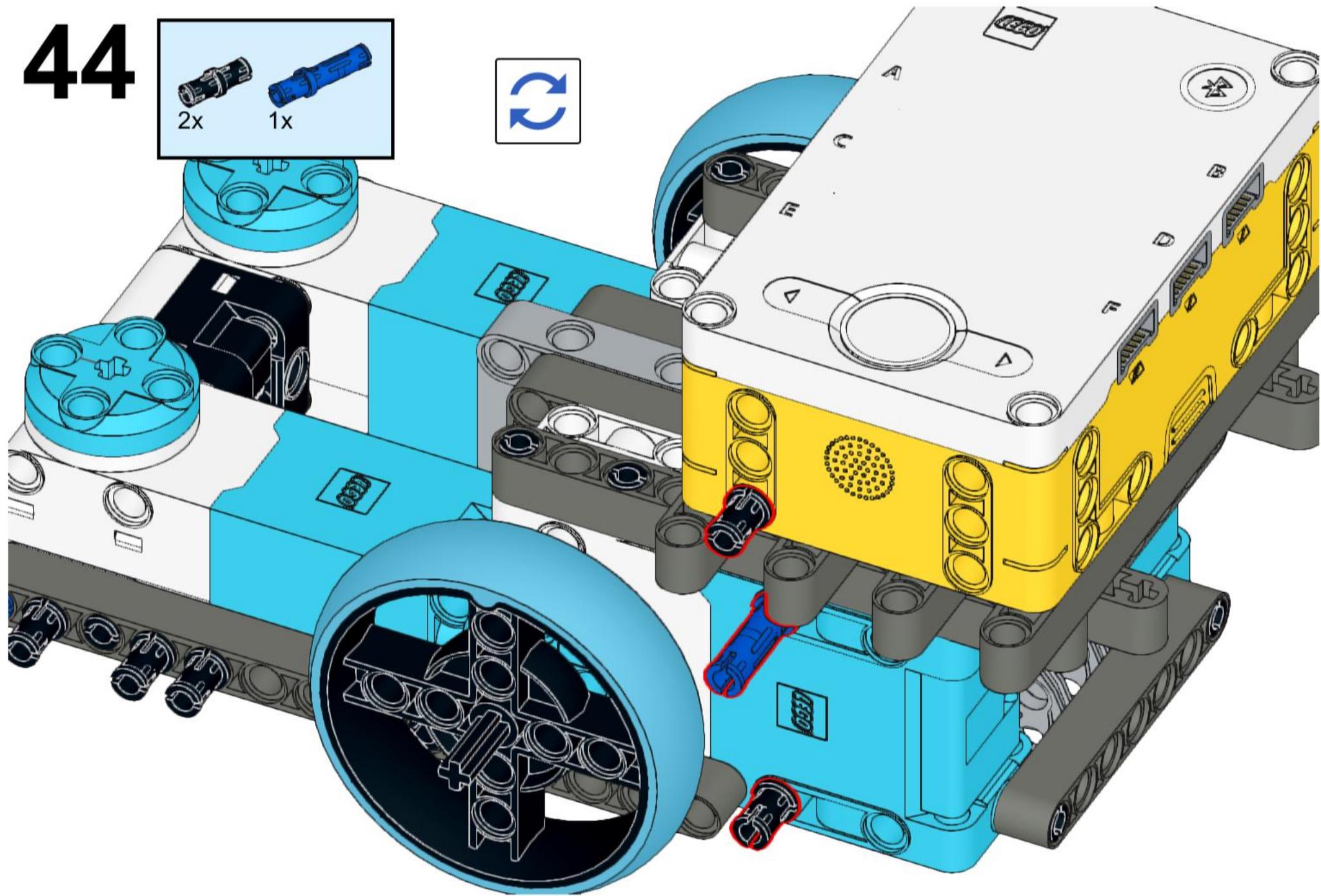
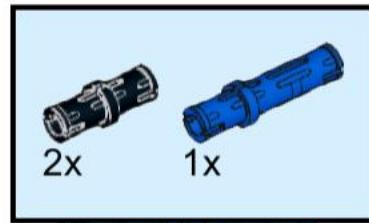
**42**



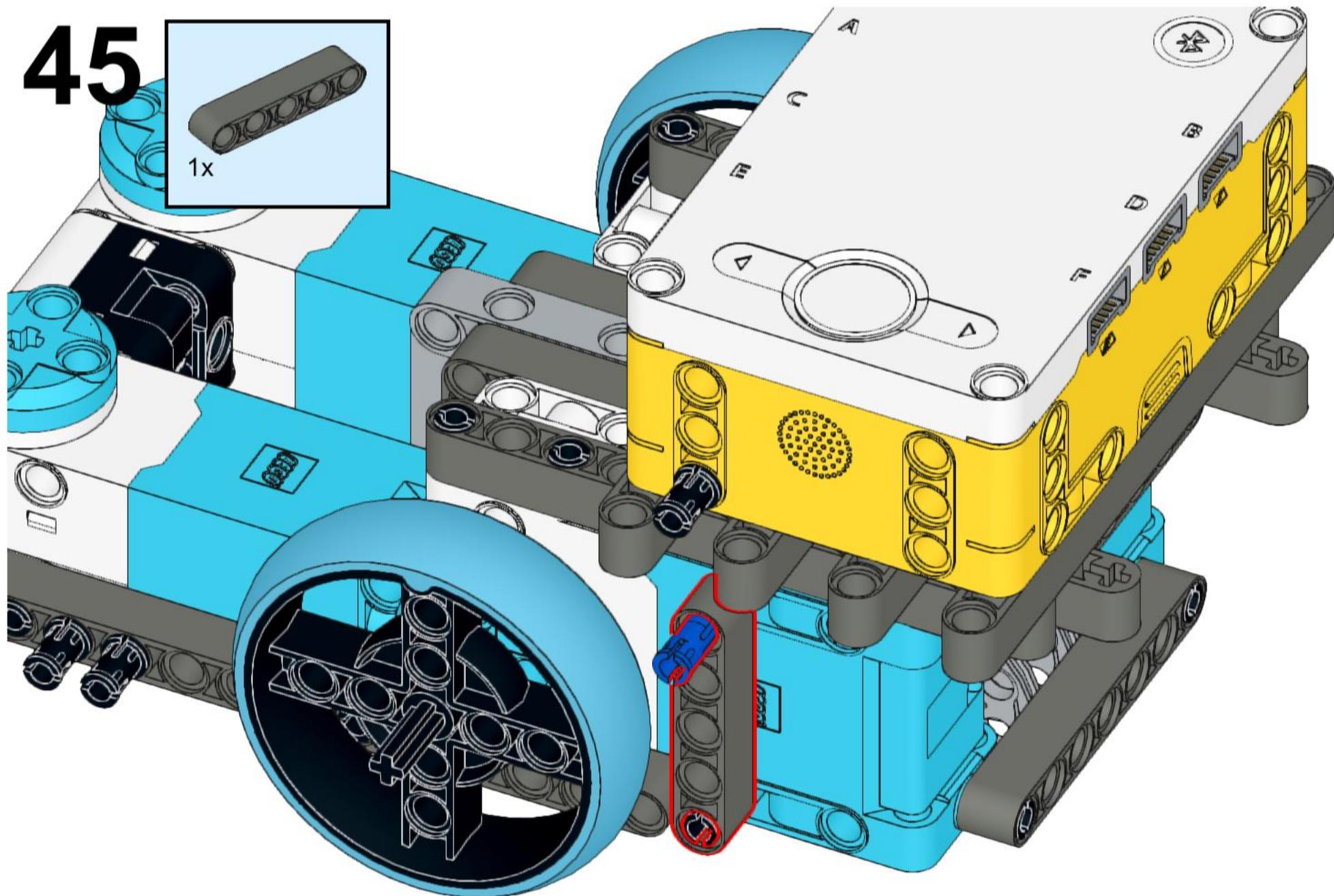
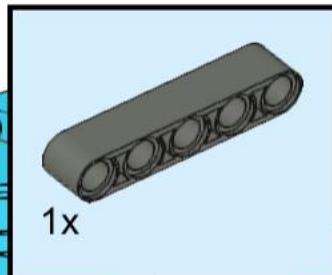
**43**



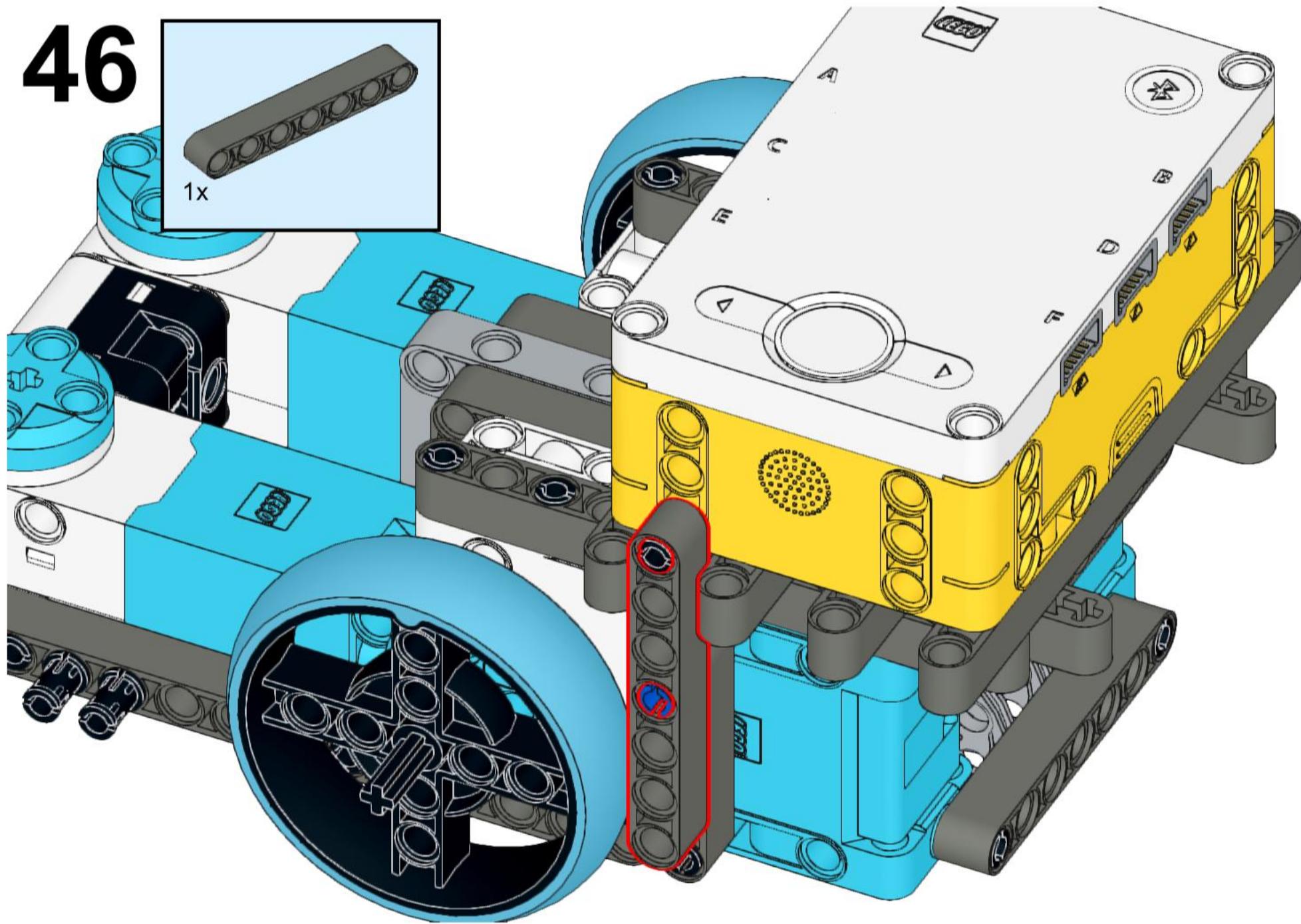
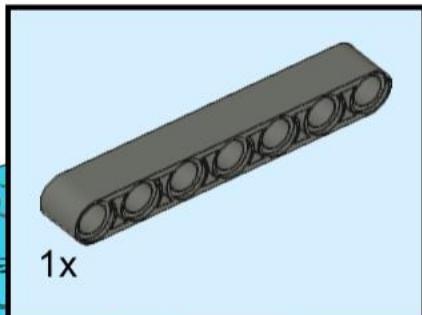
44



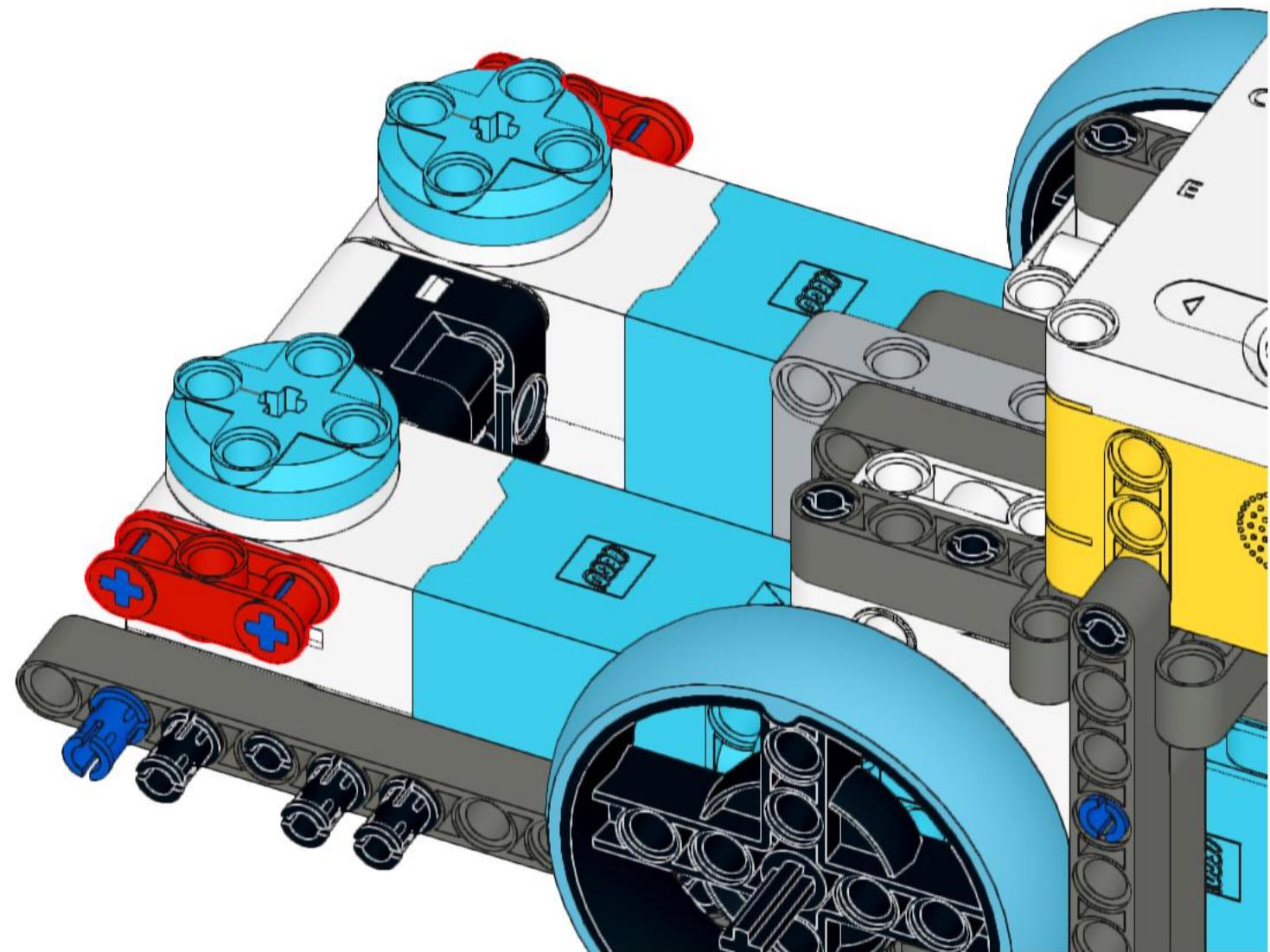
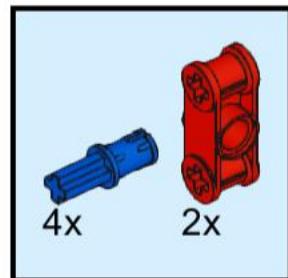
**45**



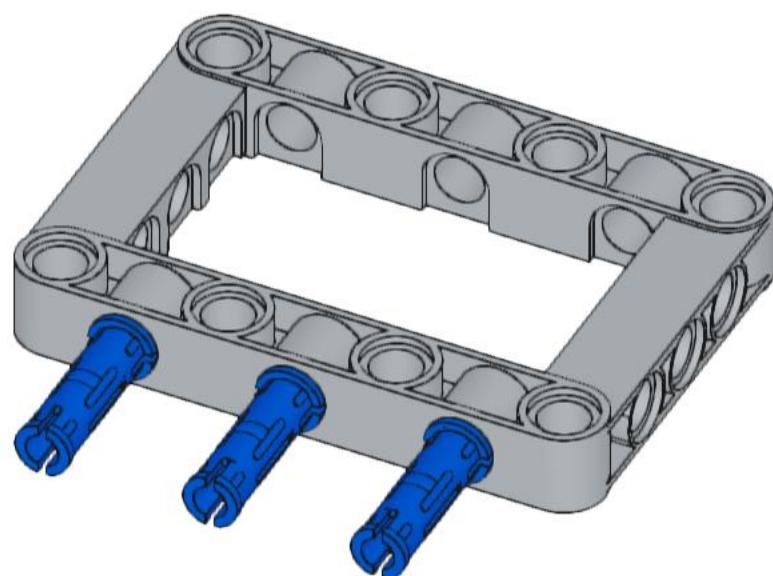
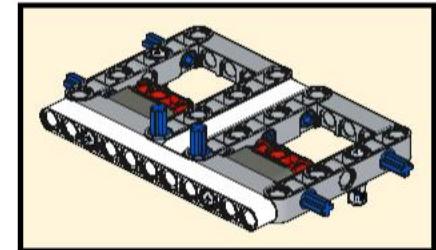
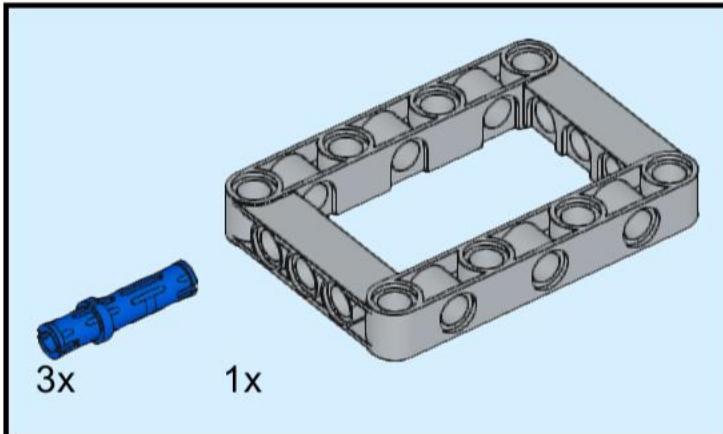
**46**



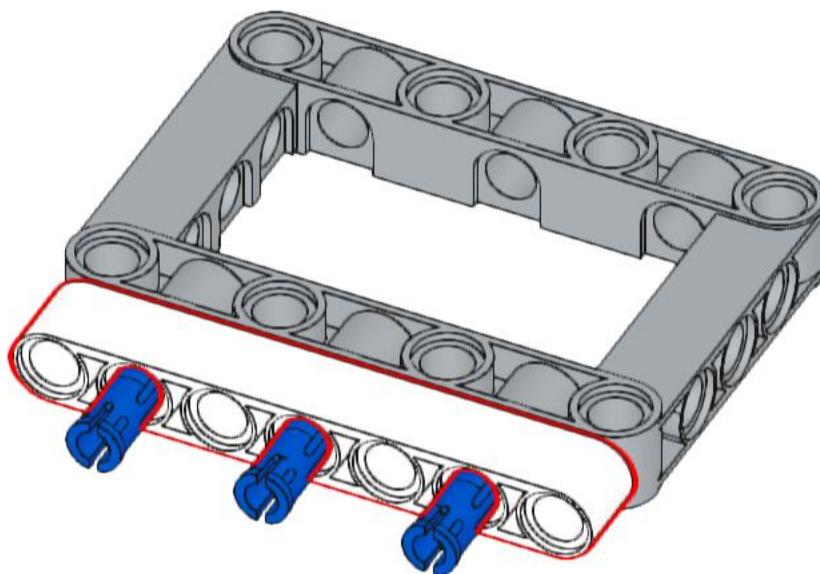
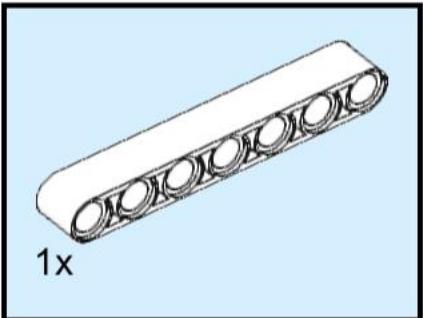
47



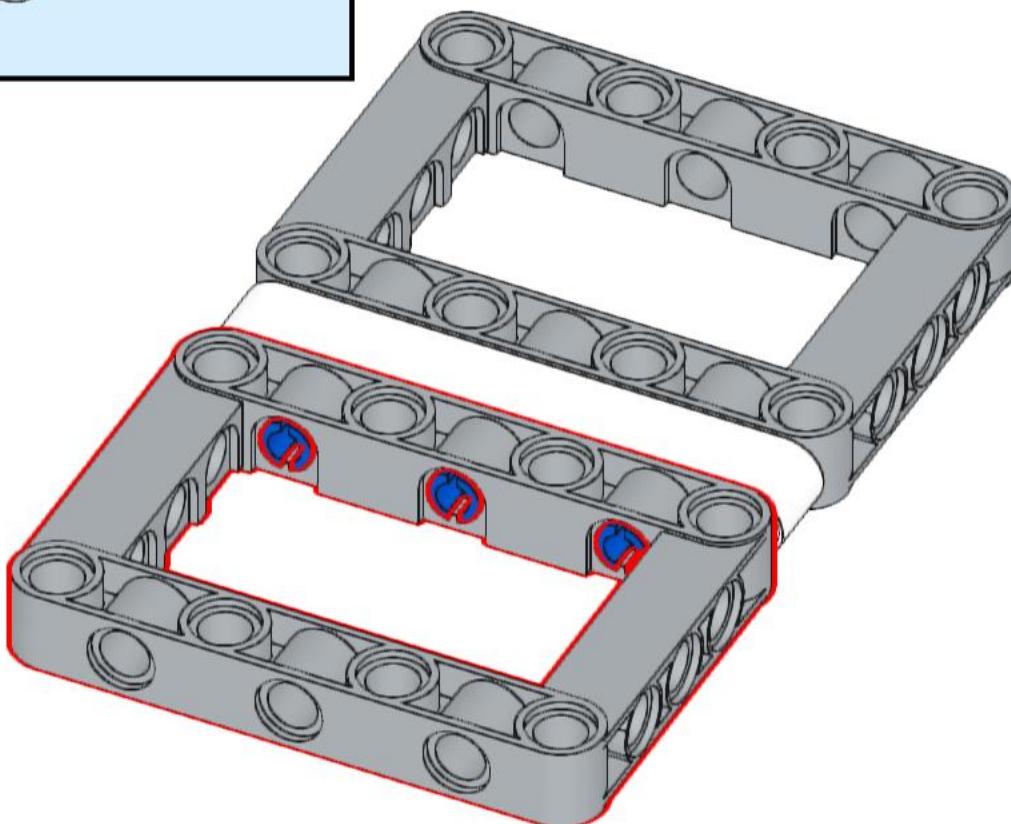
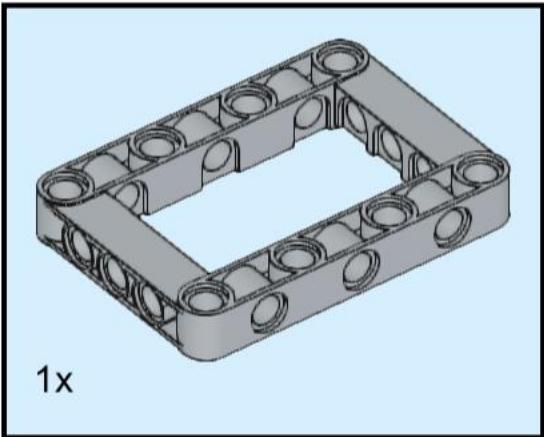
**48**



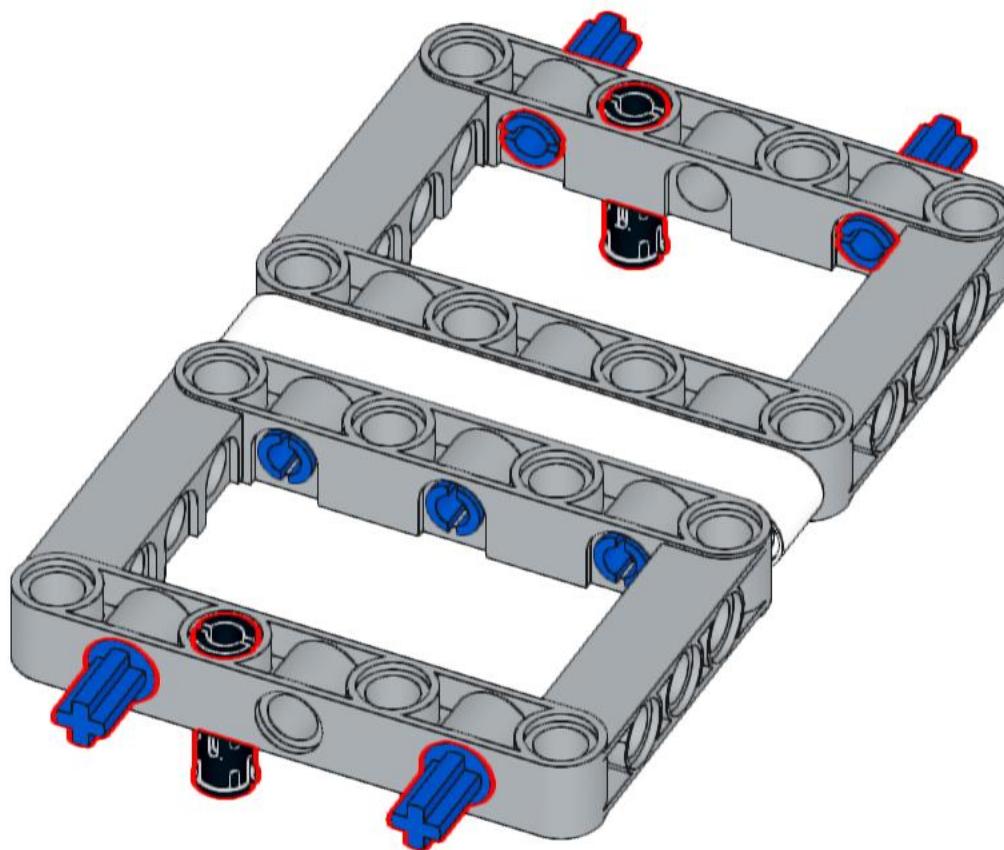
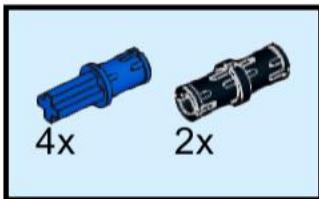
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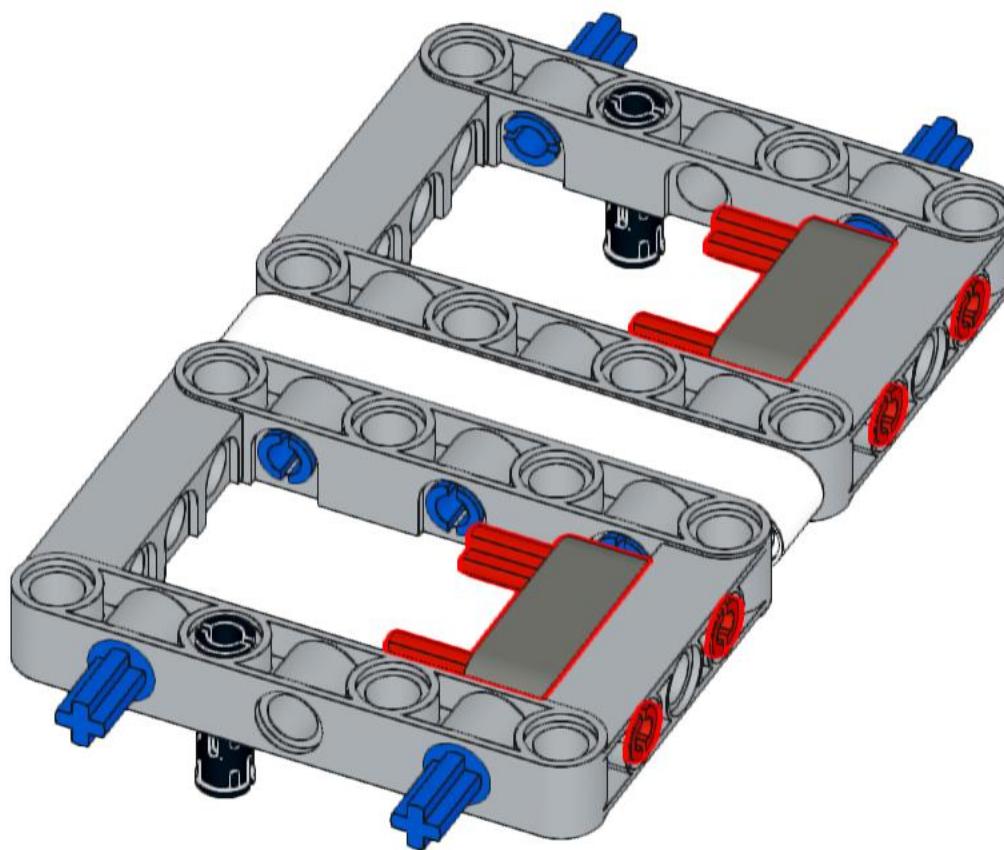
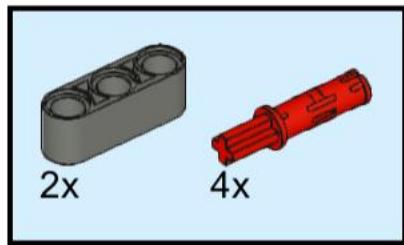
**50**



**51**



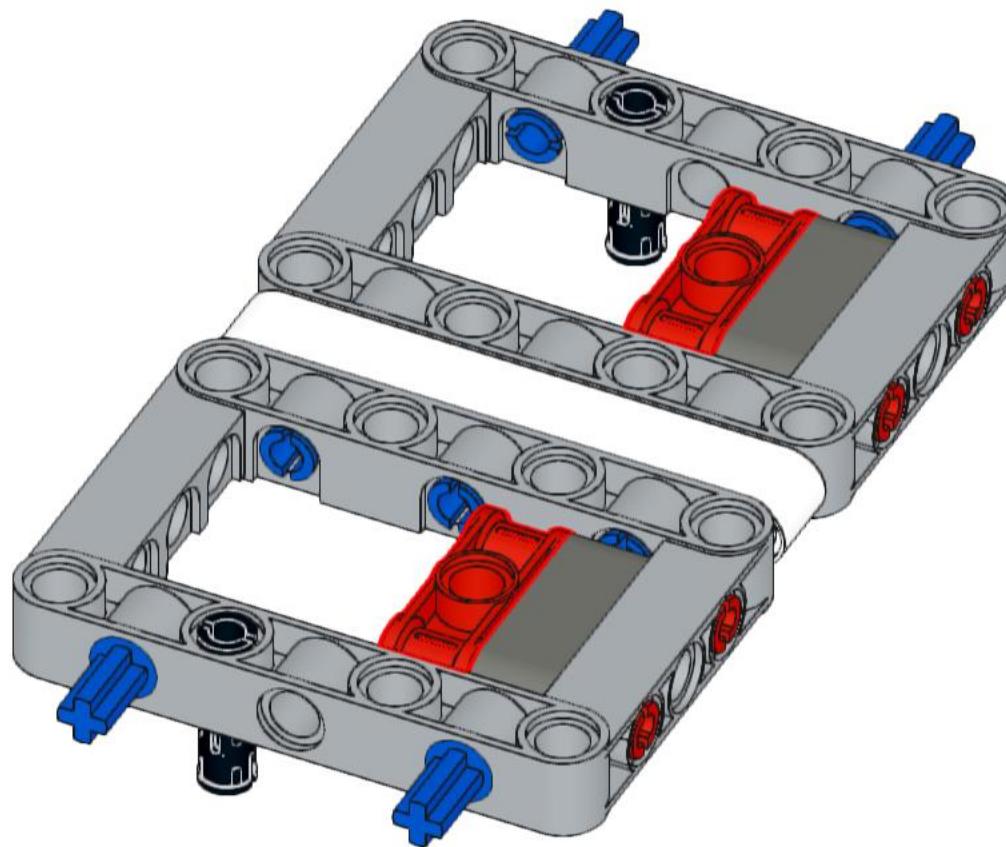
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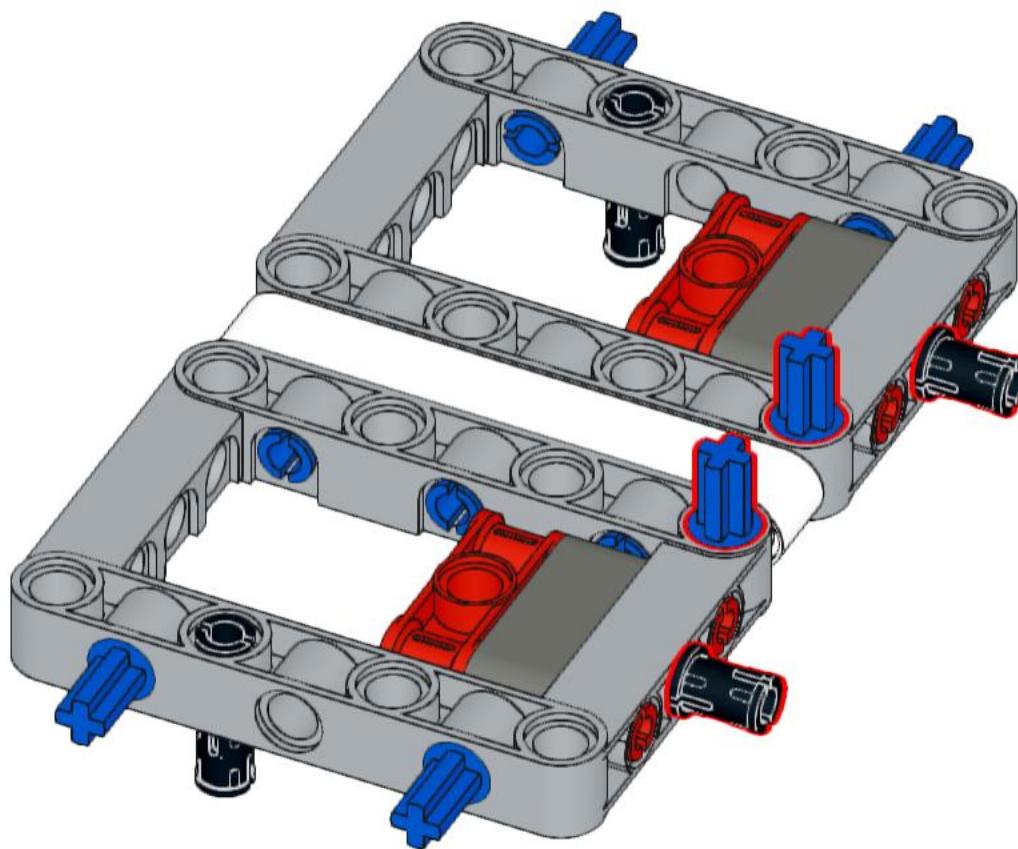
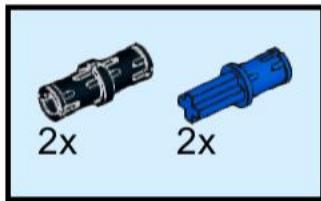
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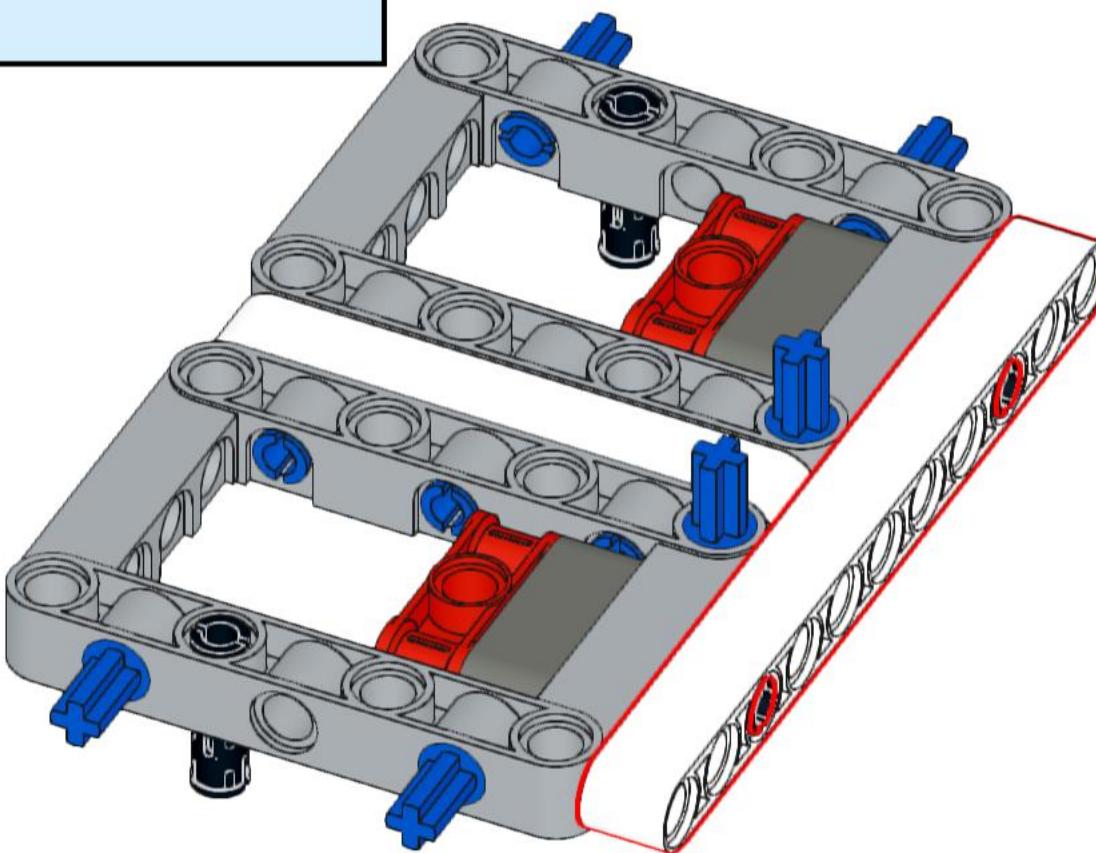
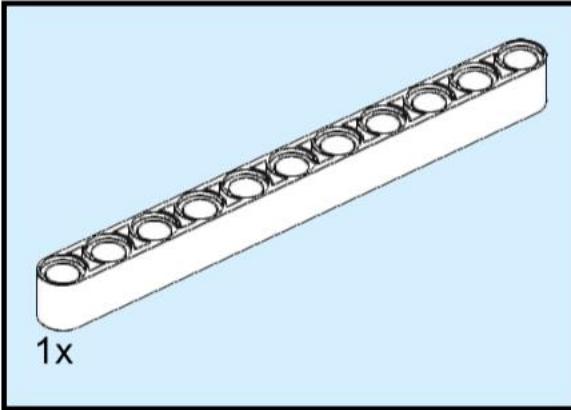
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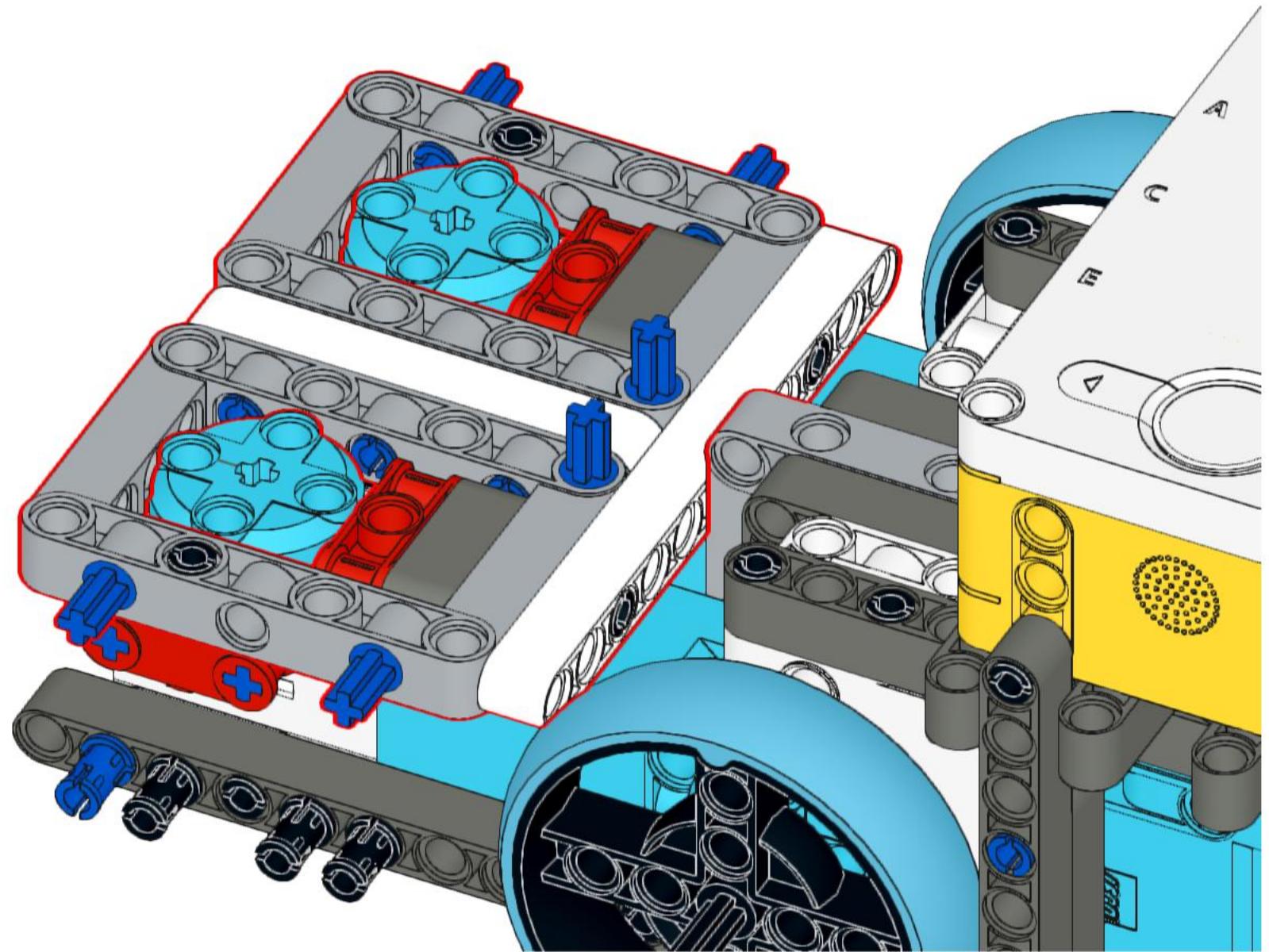
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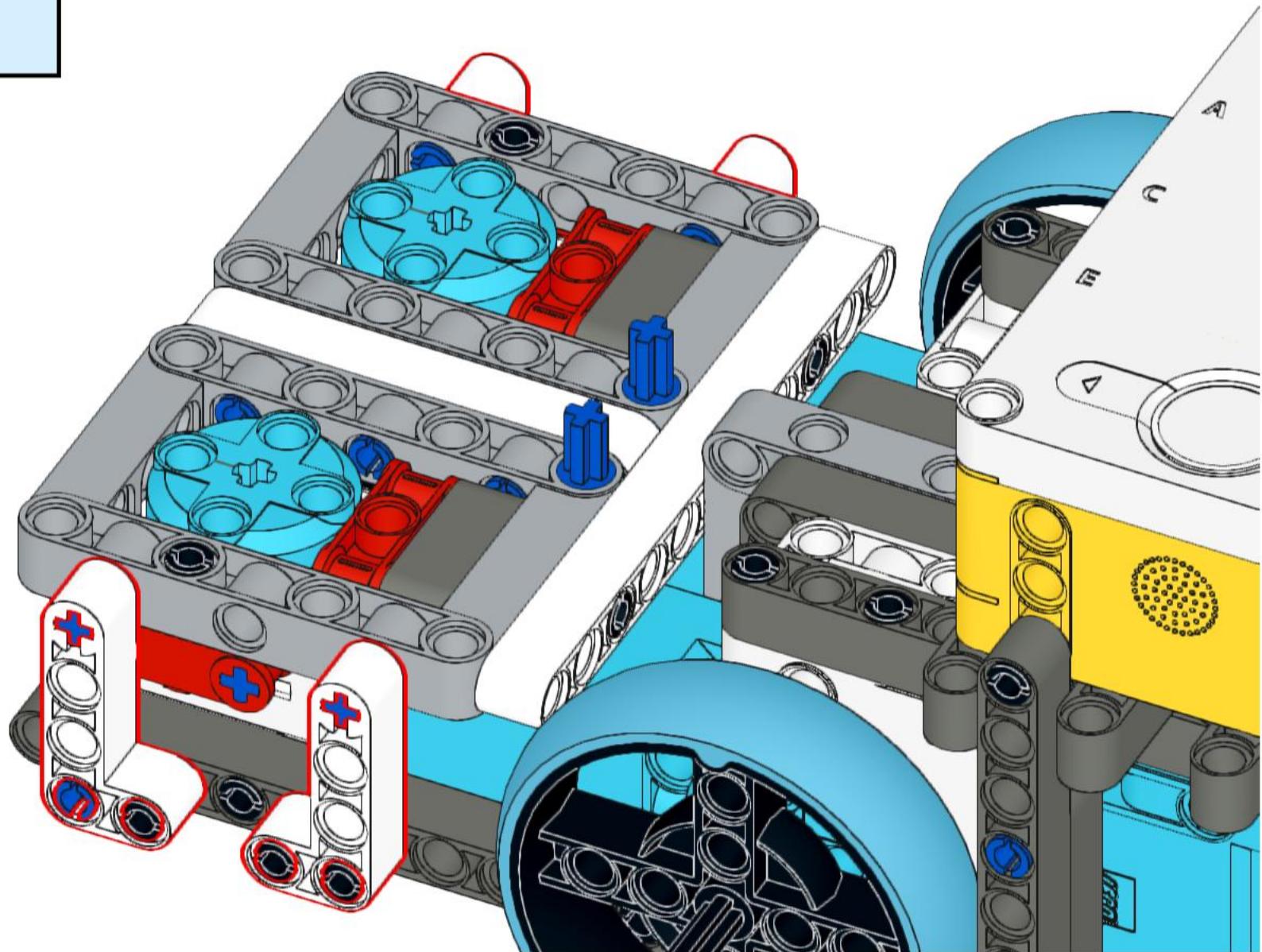
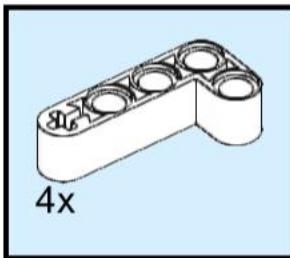
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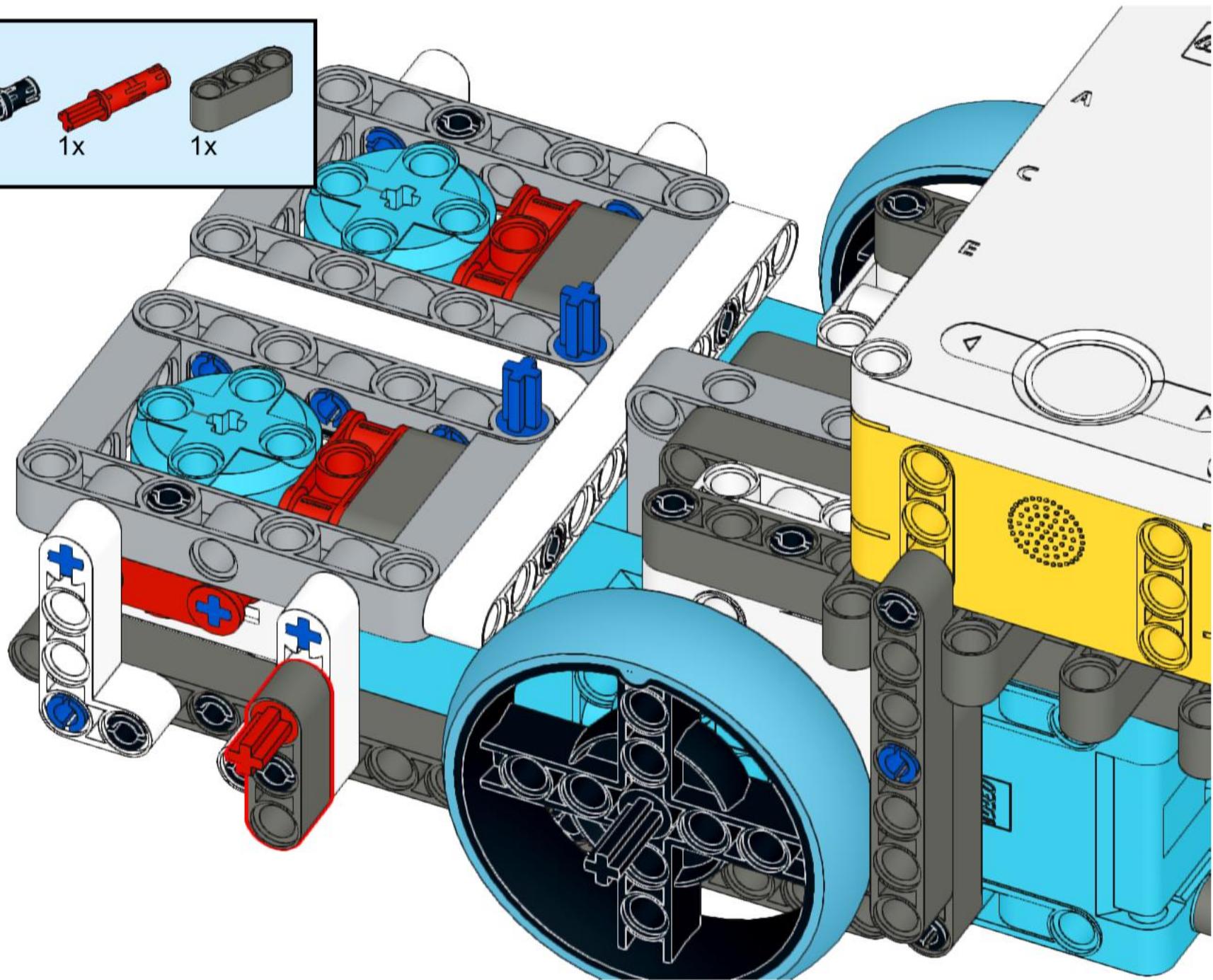
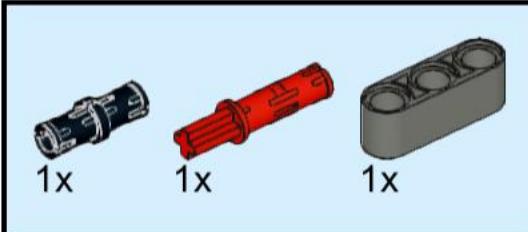
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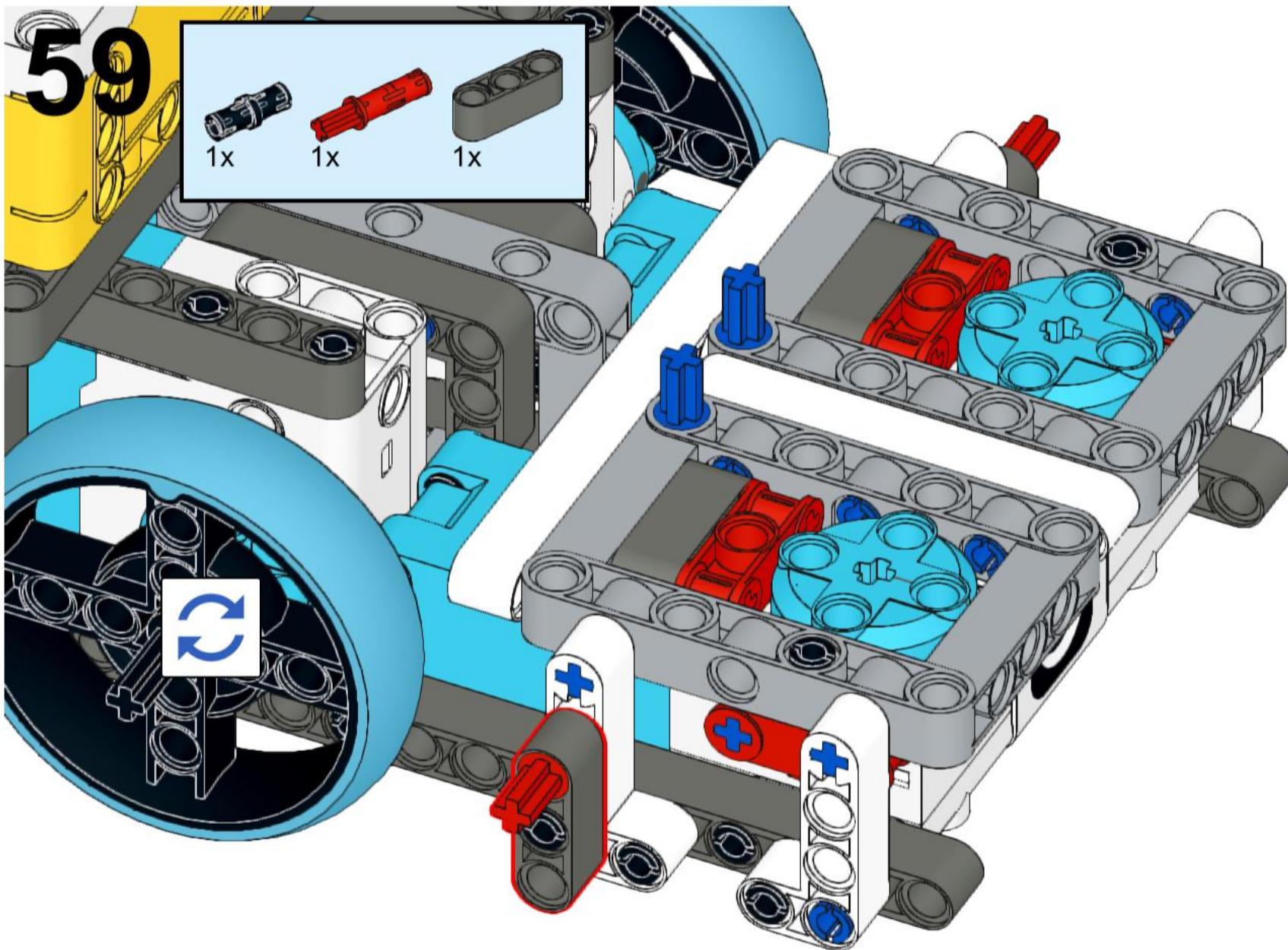
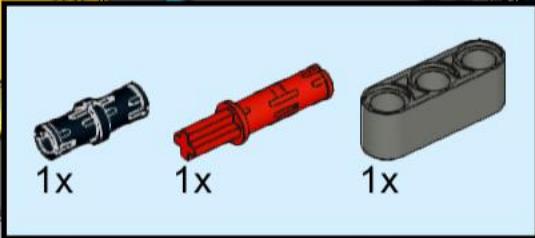
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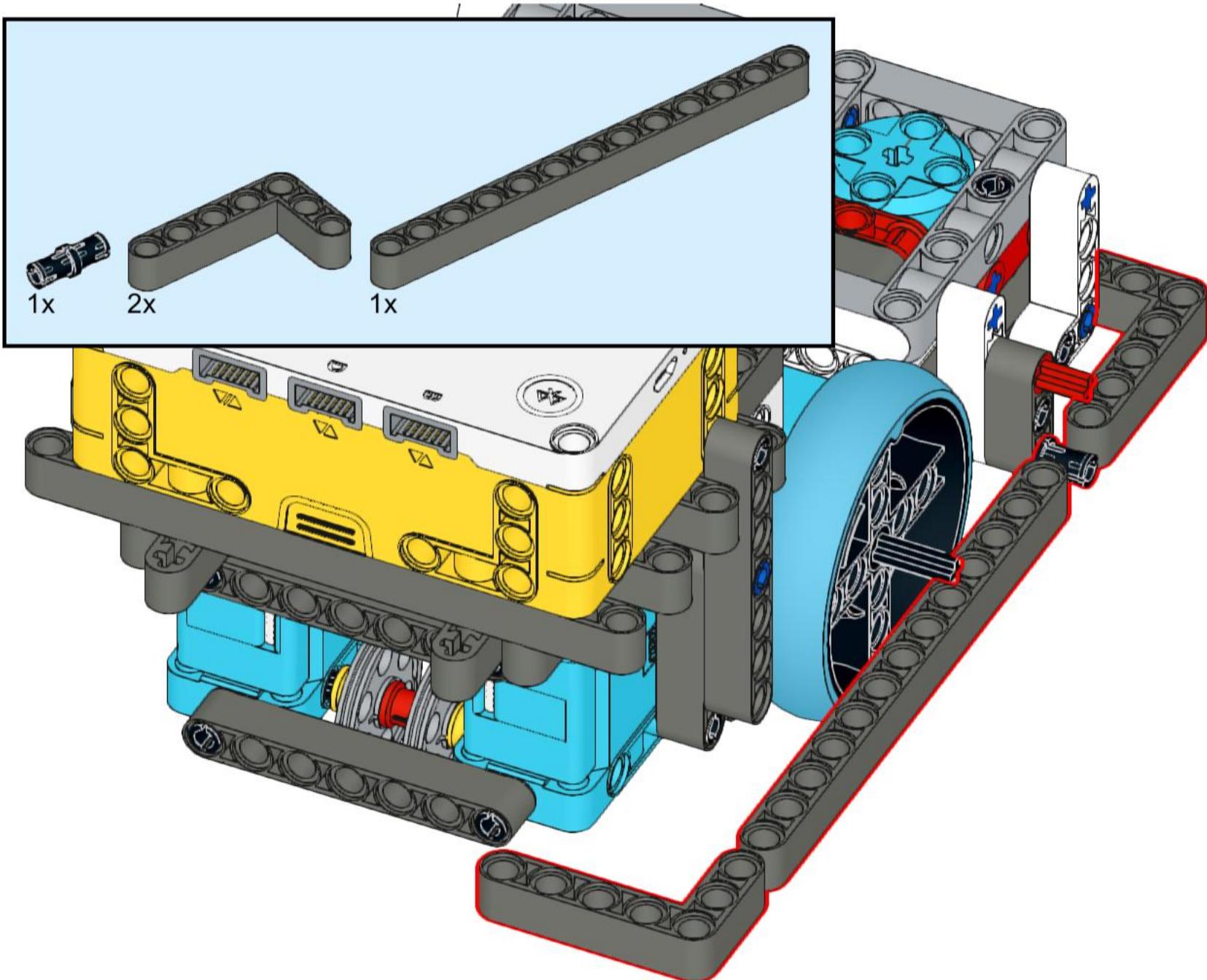
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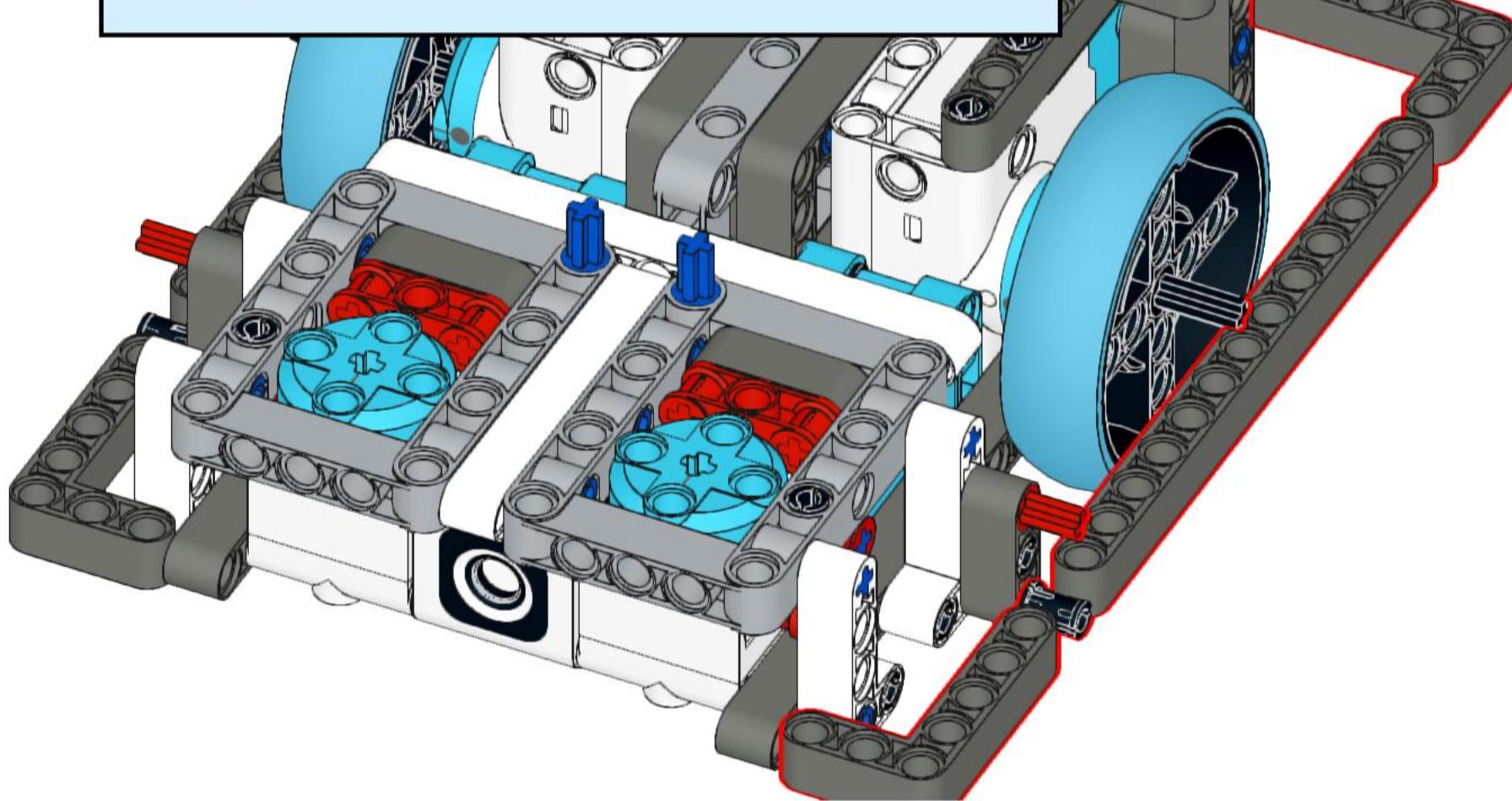
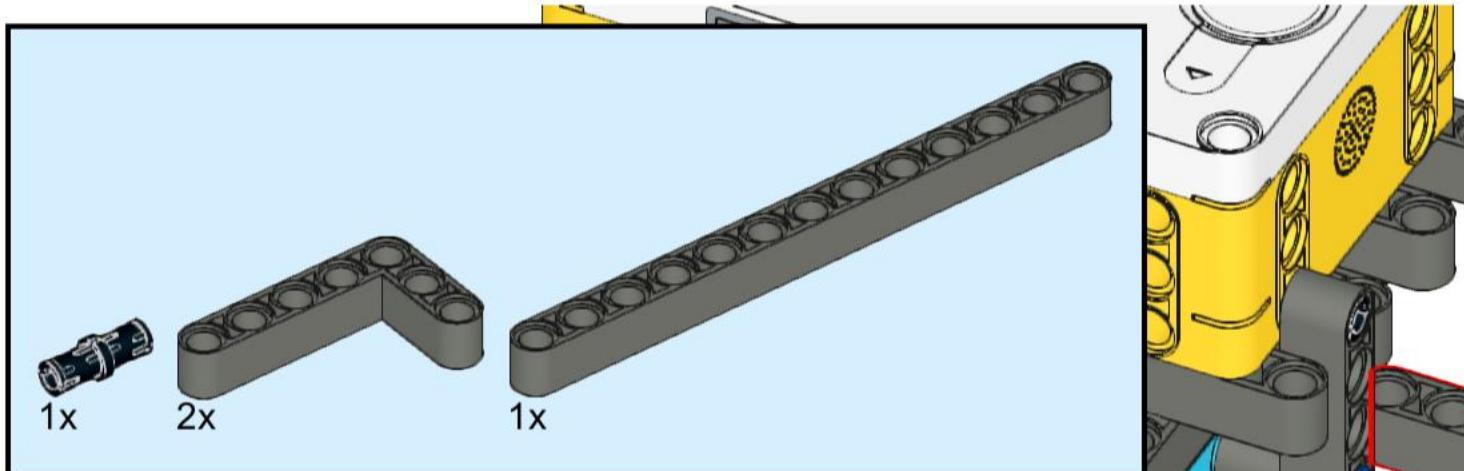
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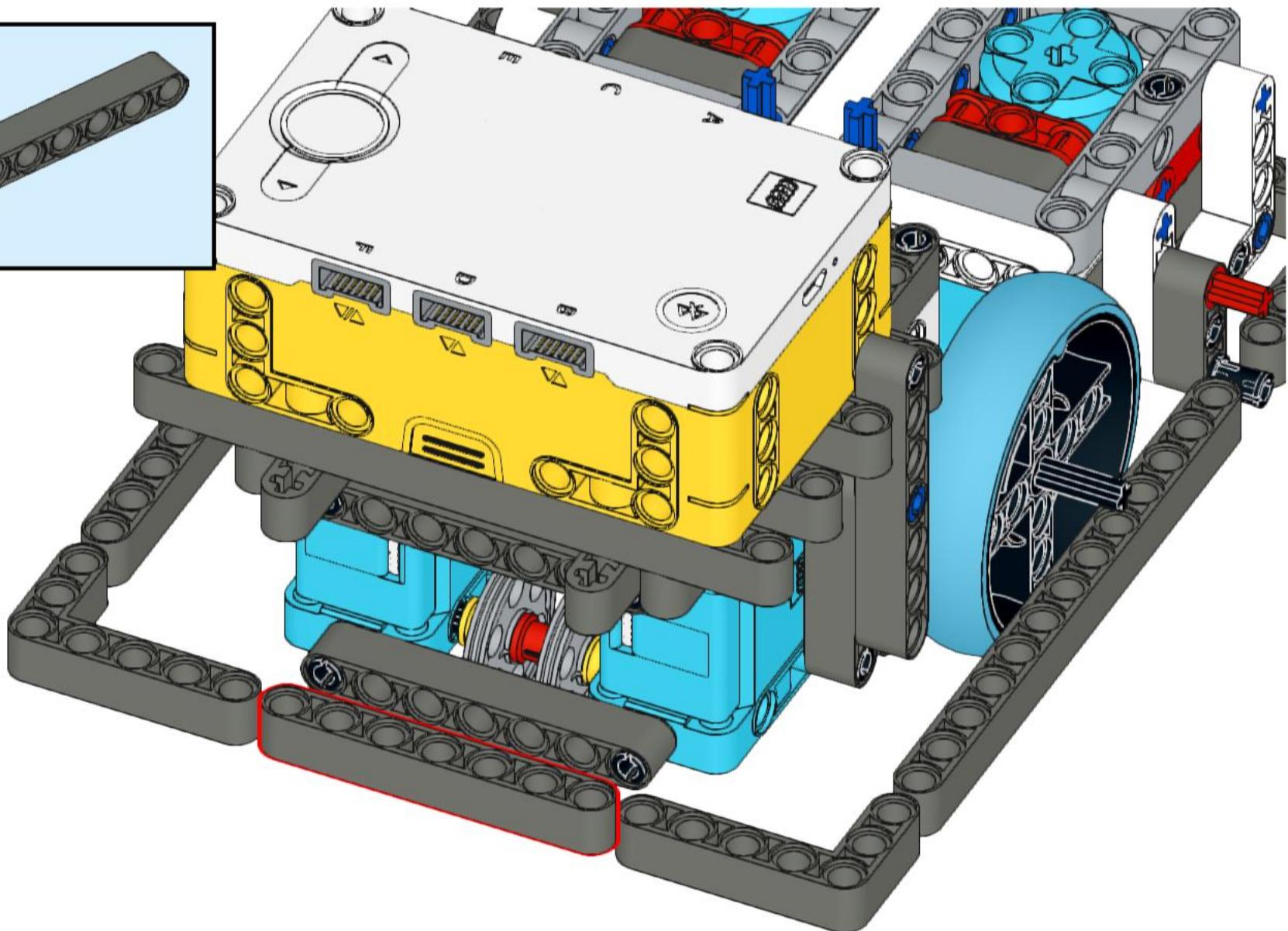
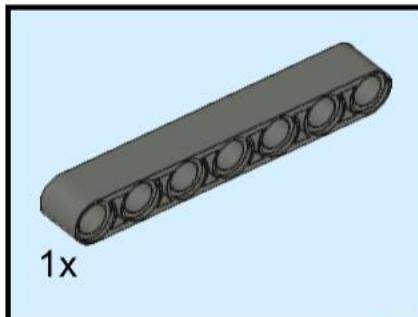
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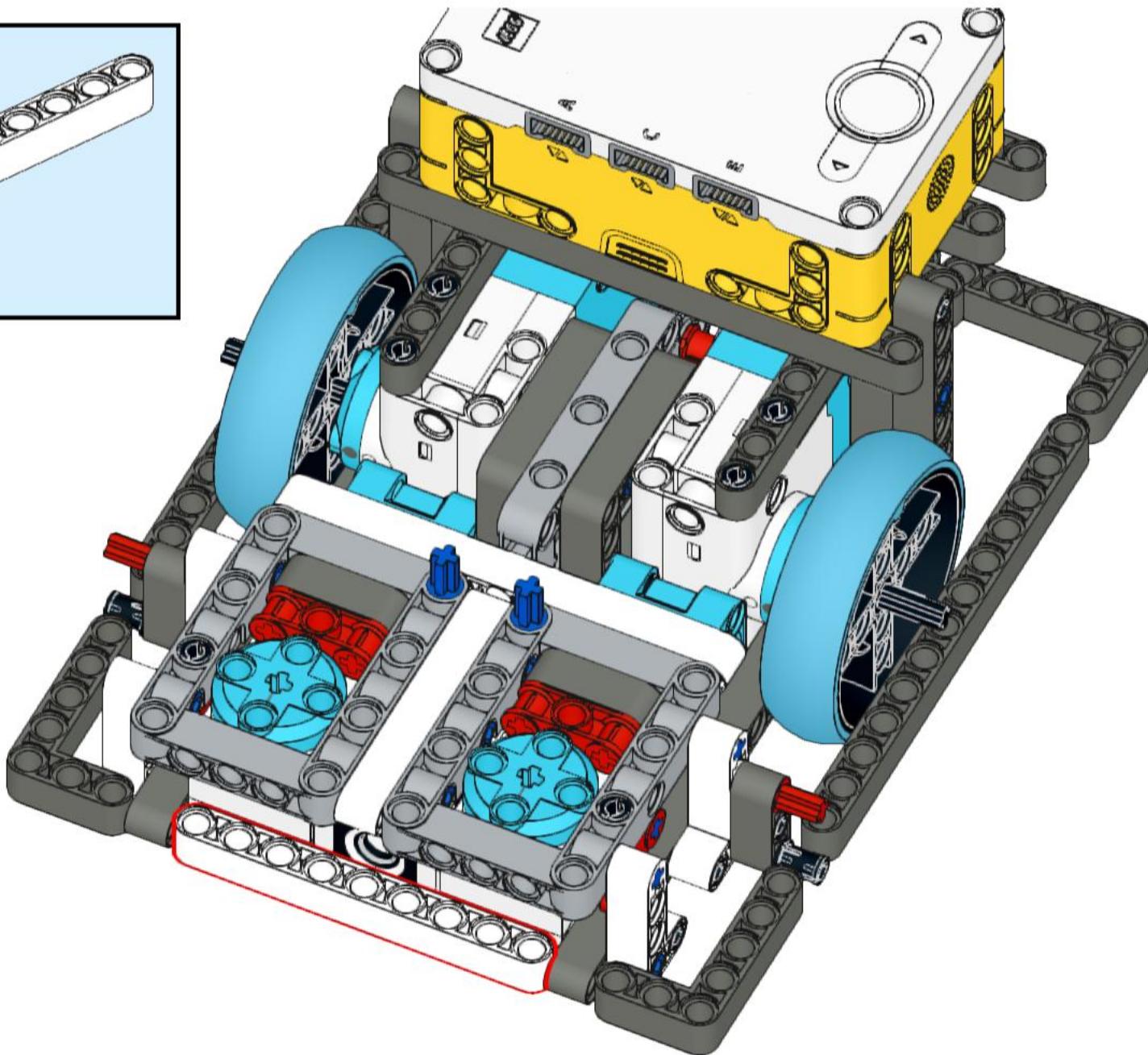
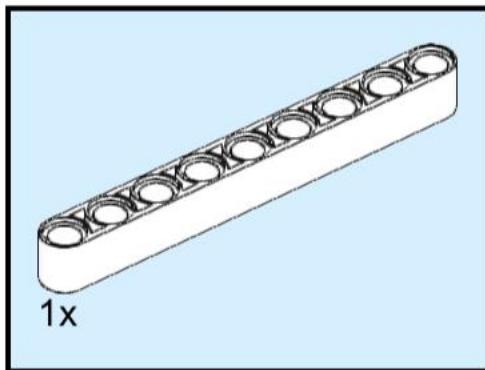
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**62**



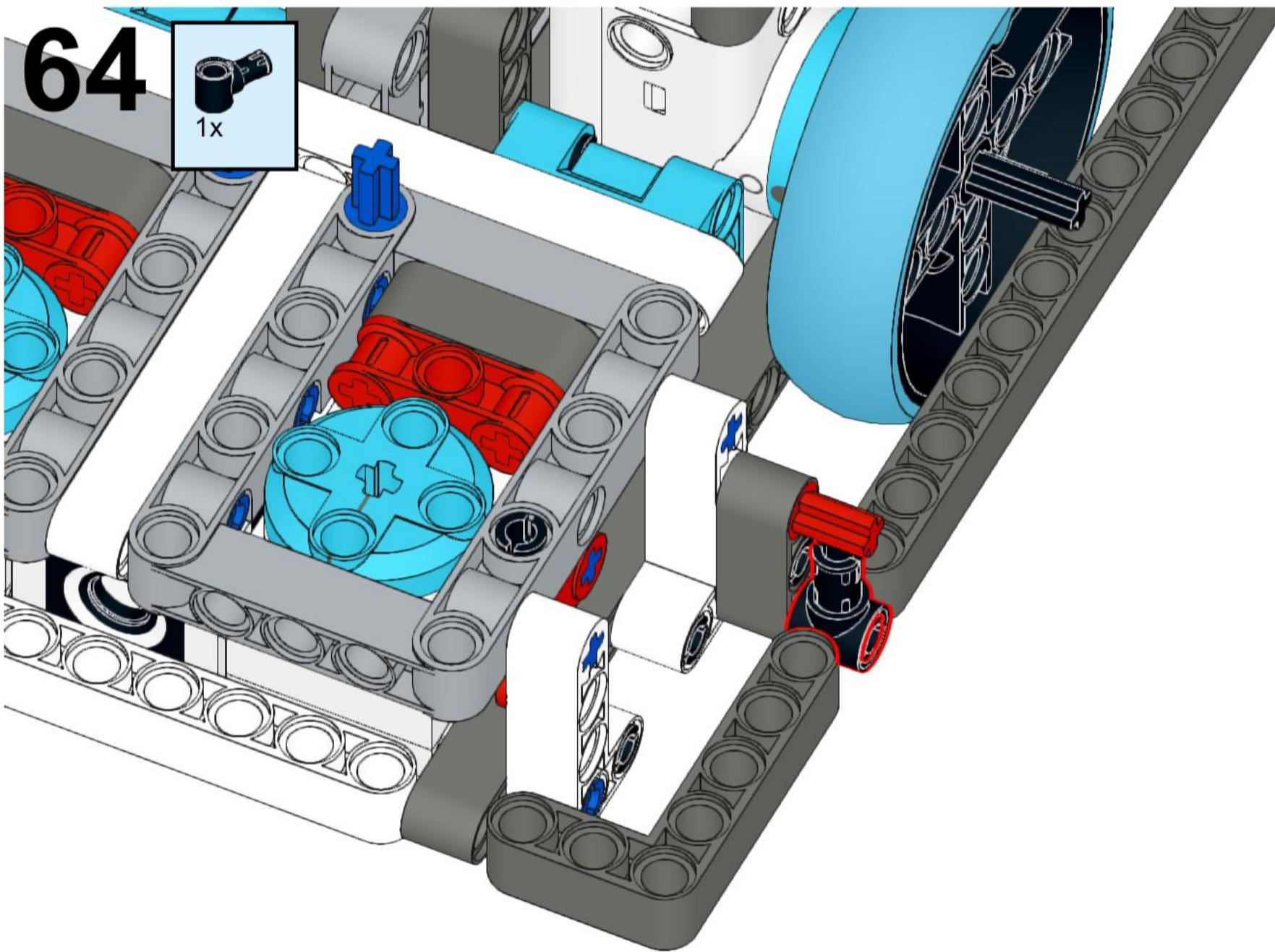
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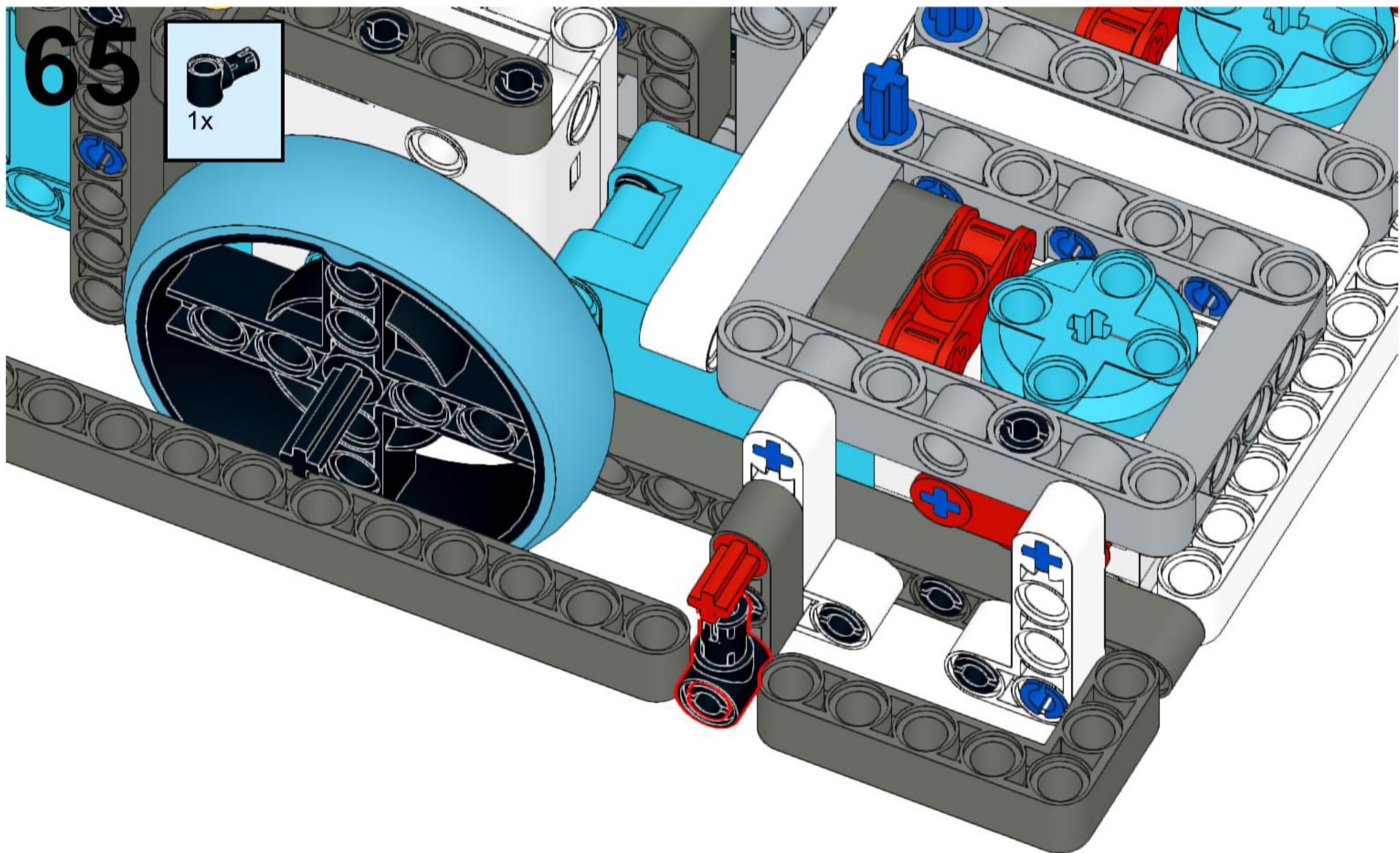
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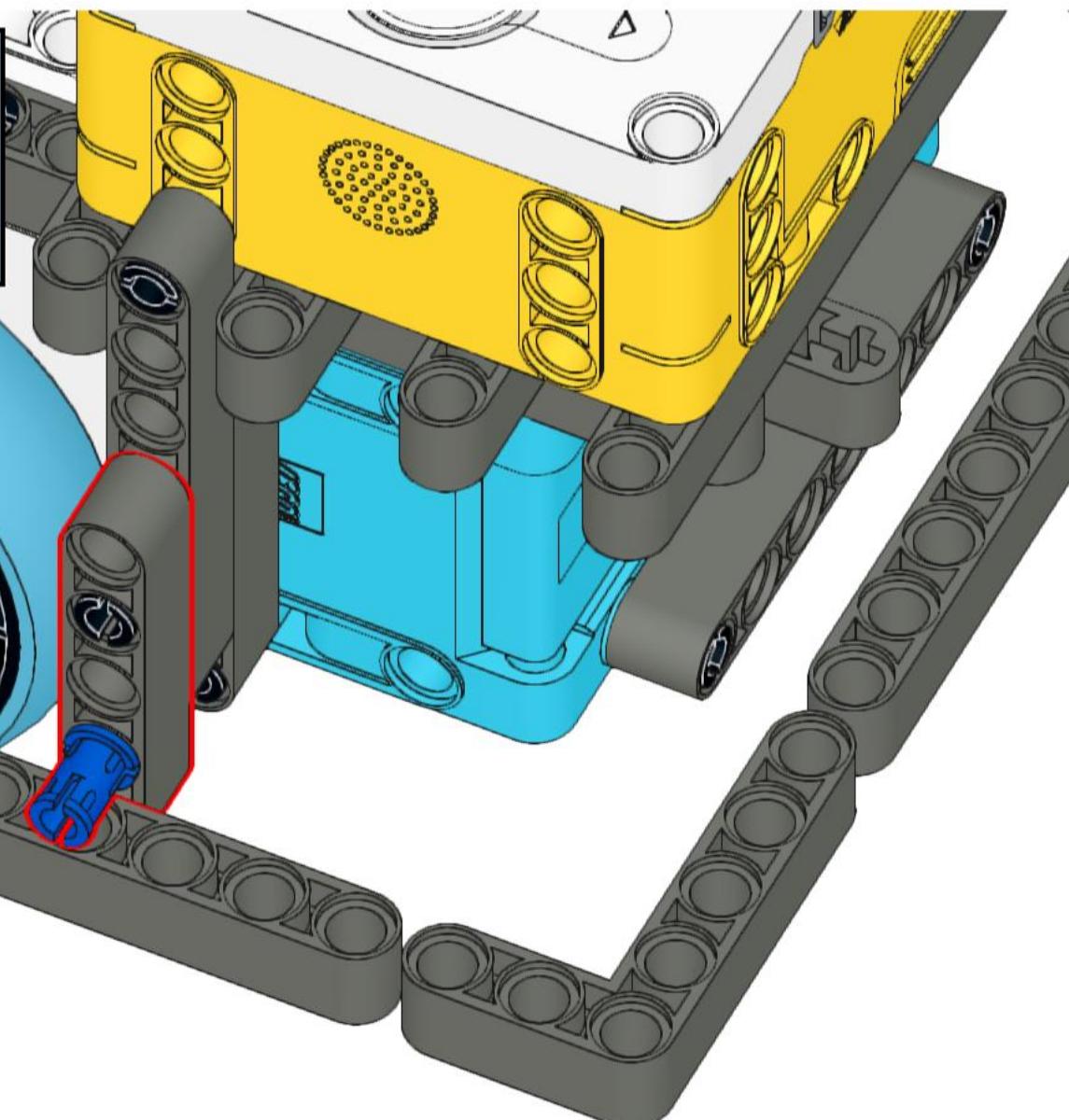
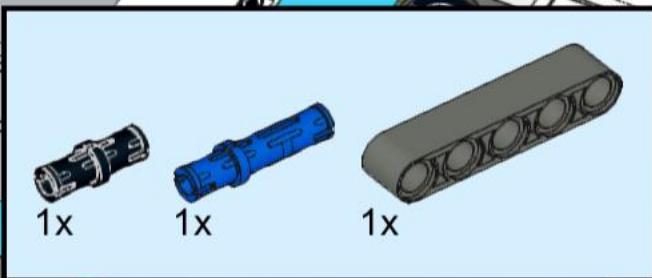
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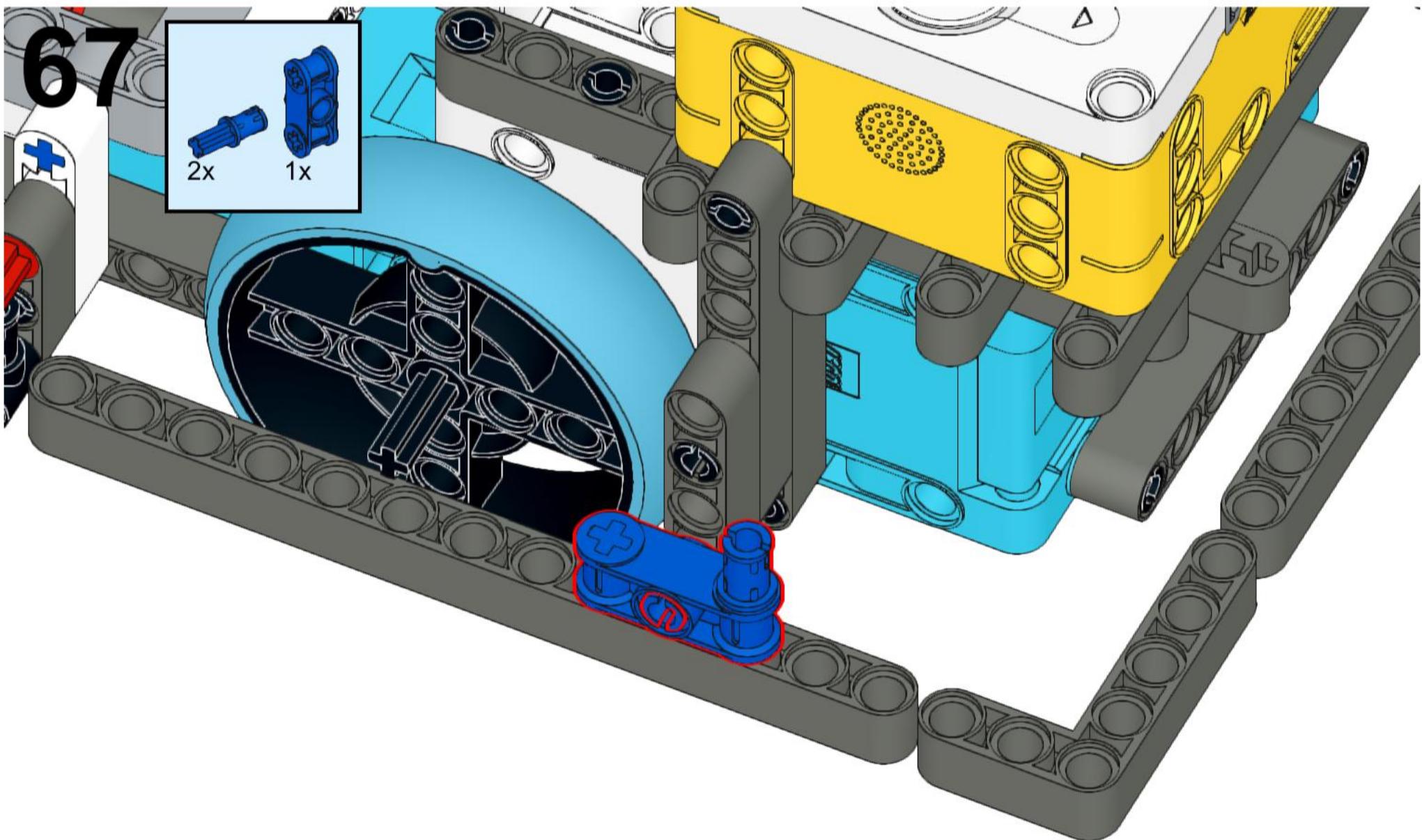
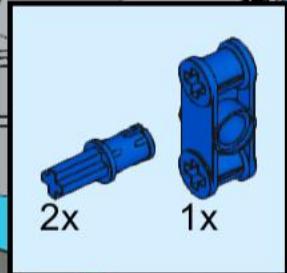
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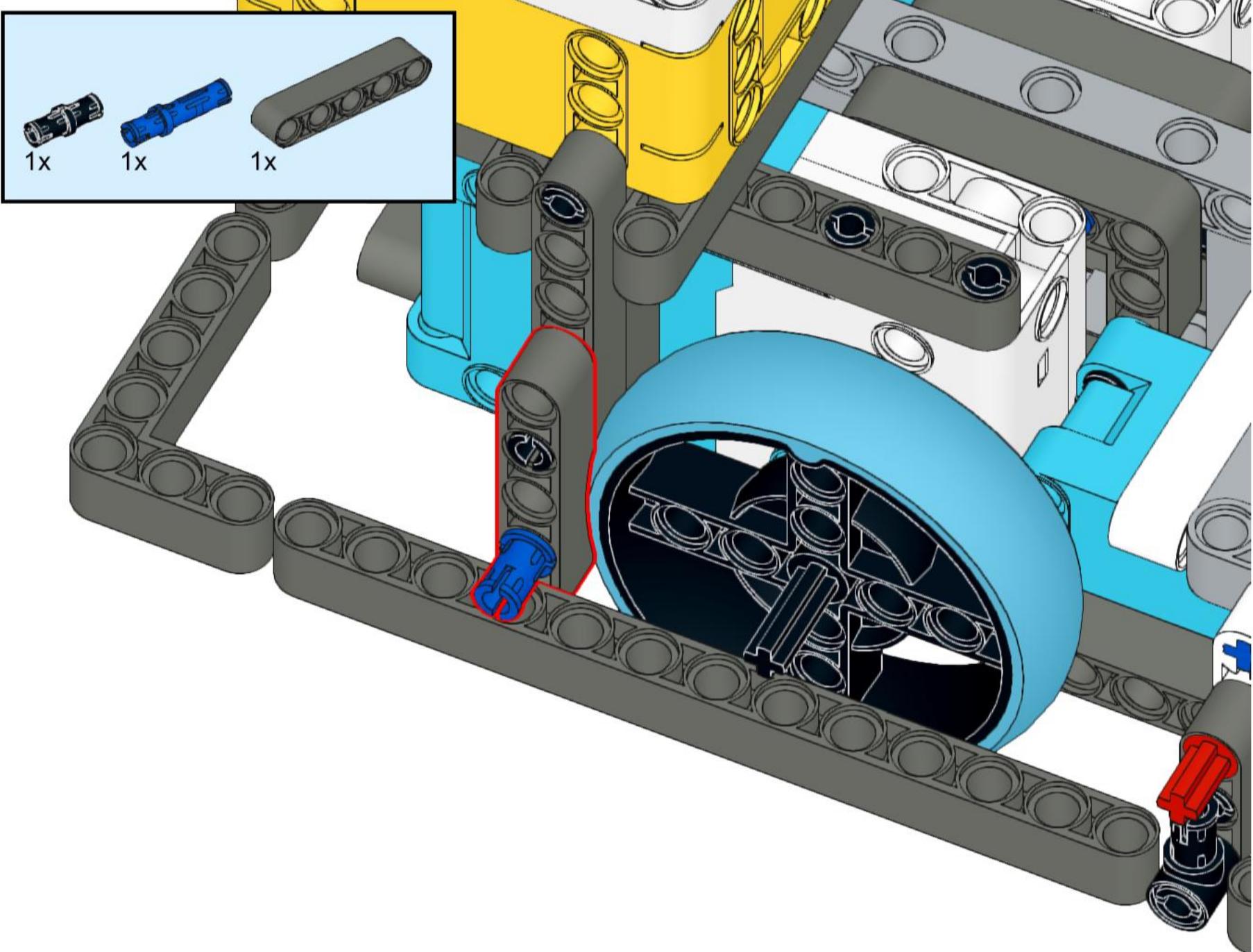
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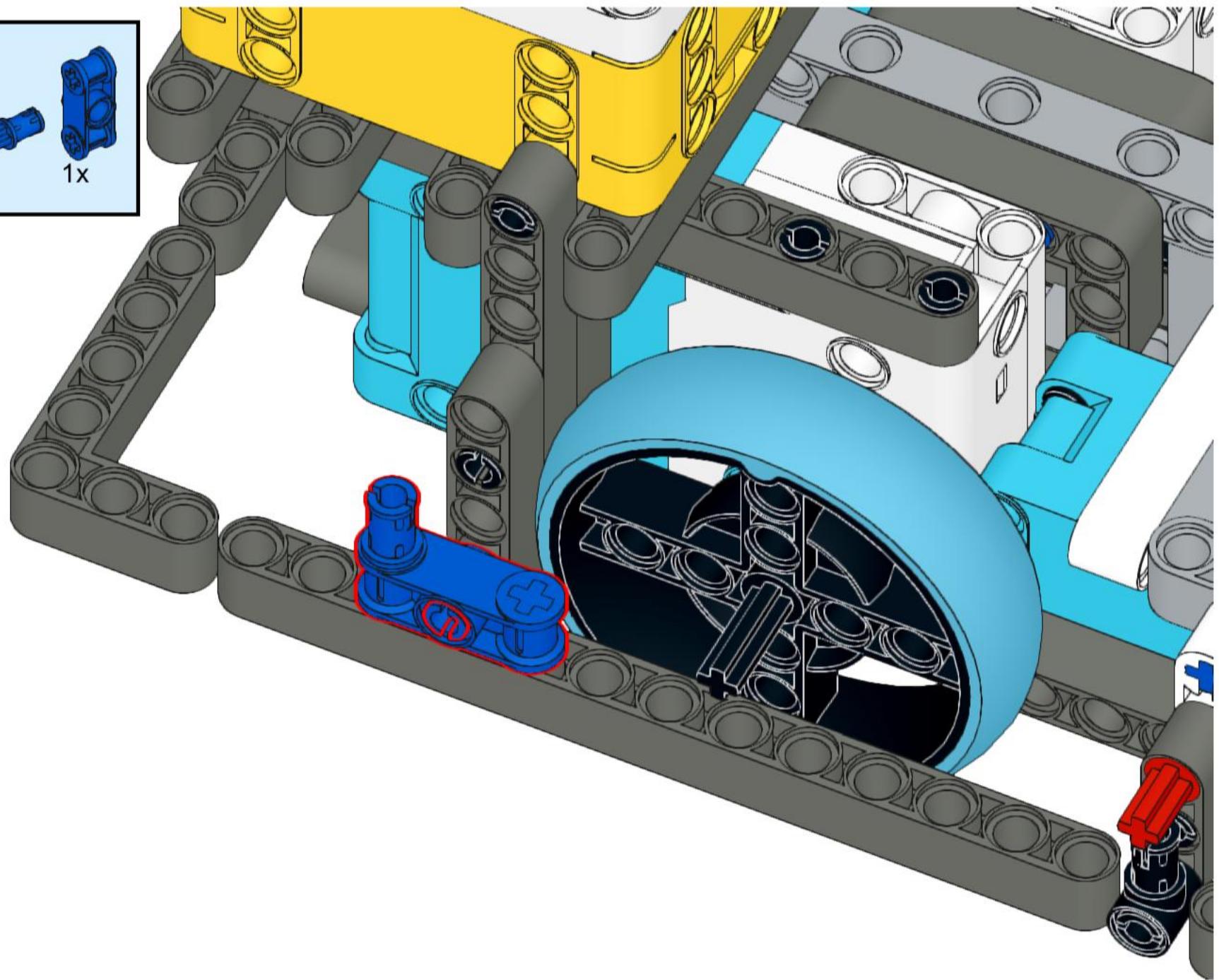
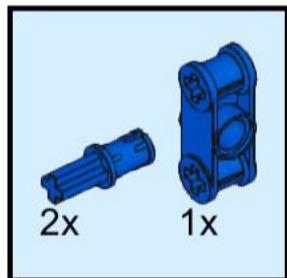
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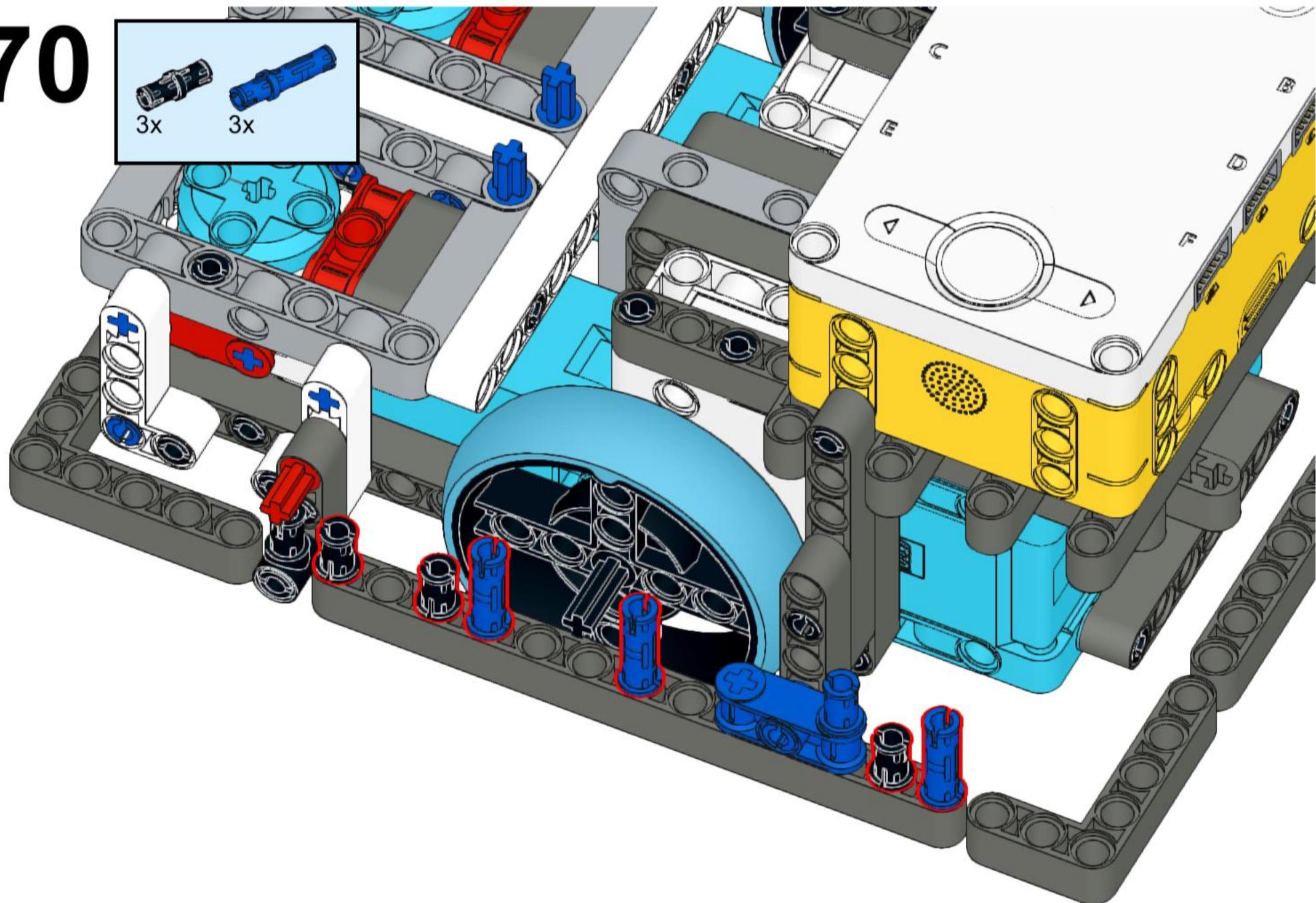
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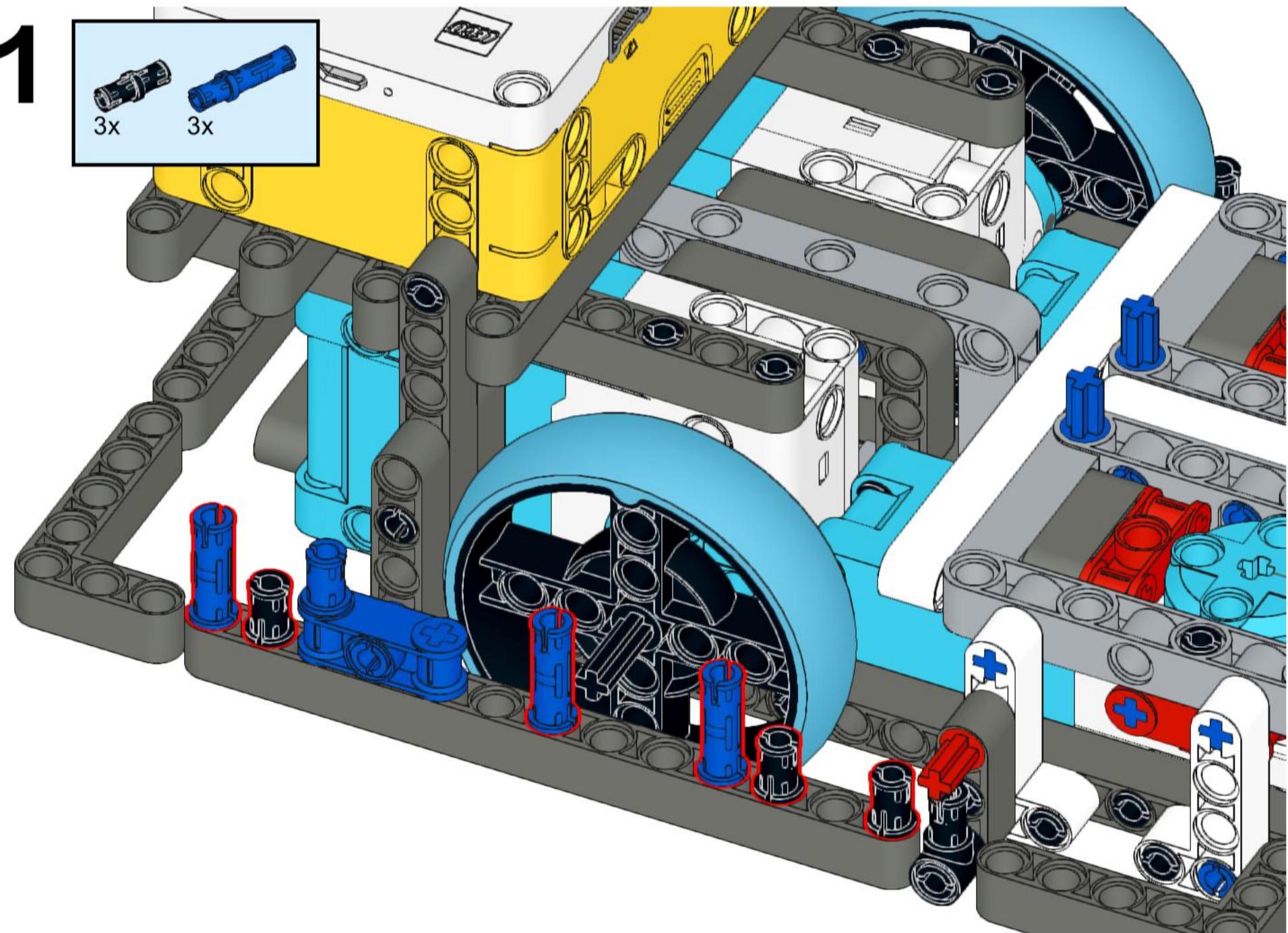
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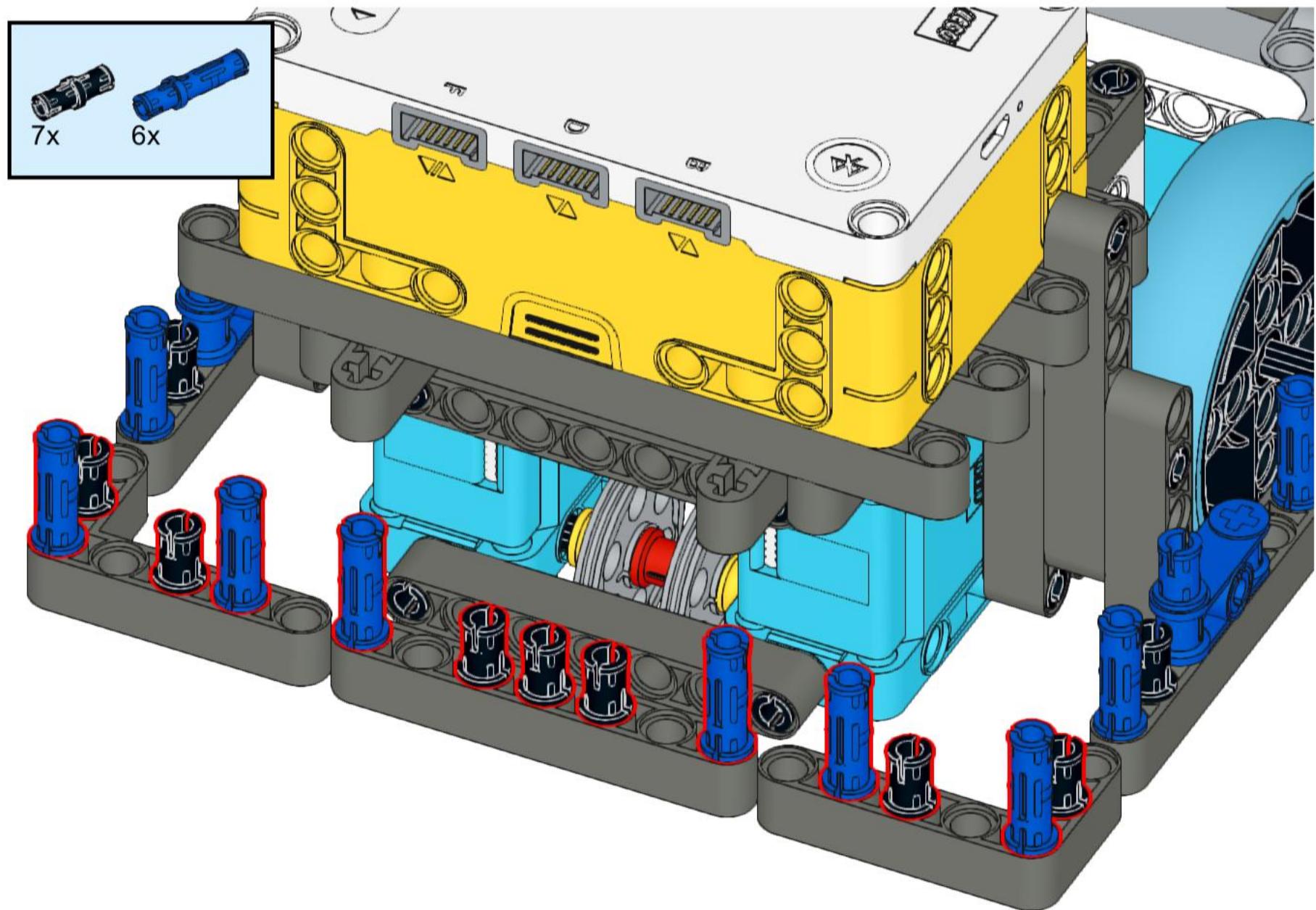
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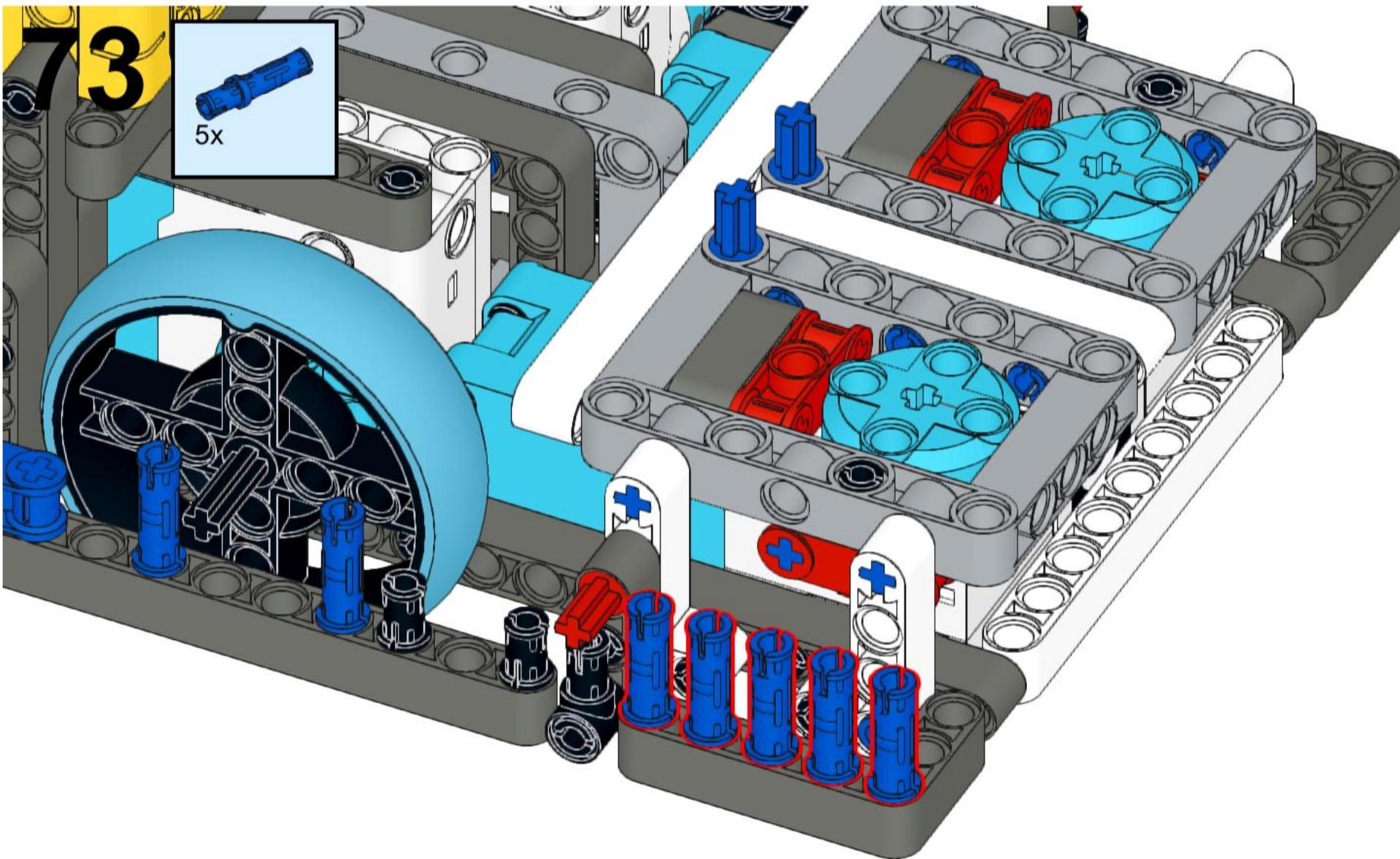


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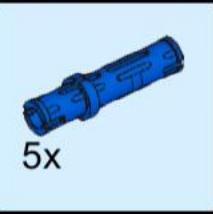


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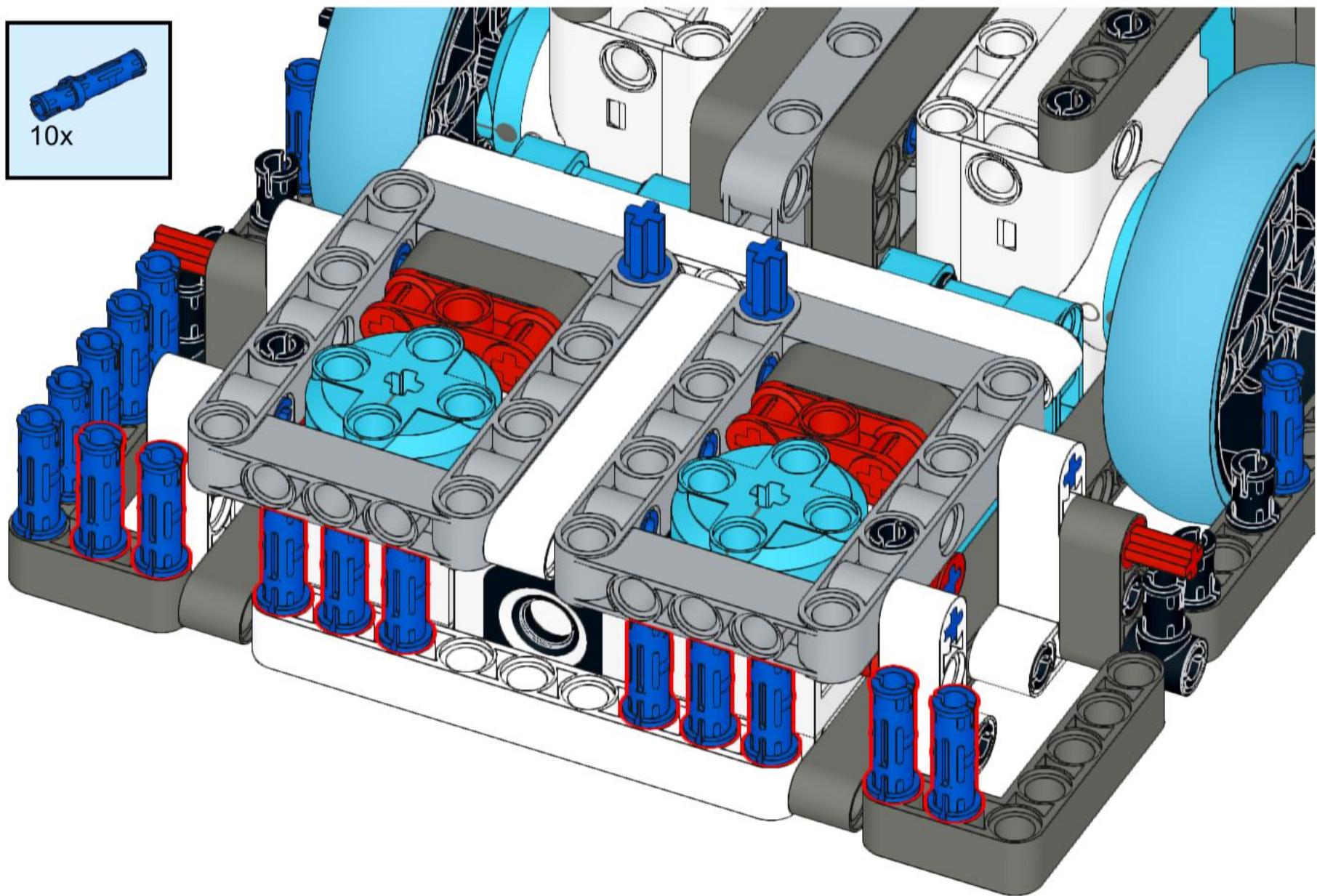
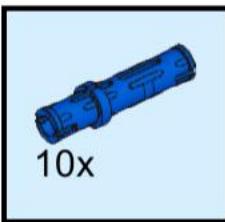




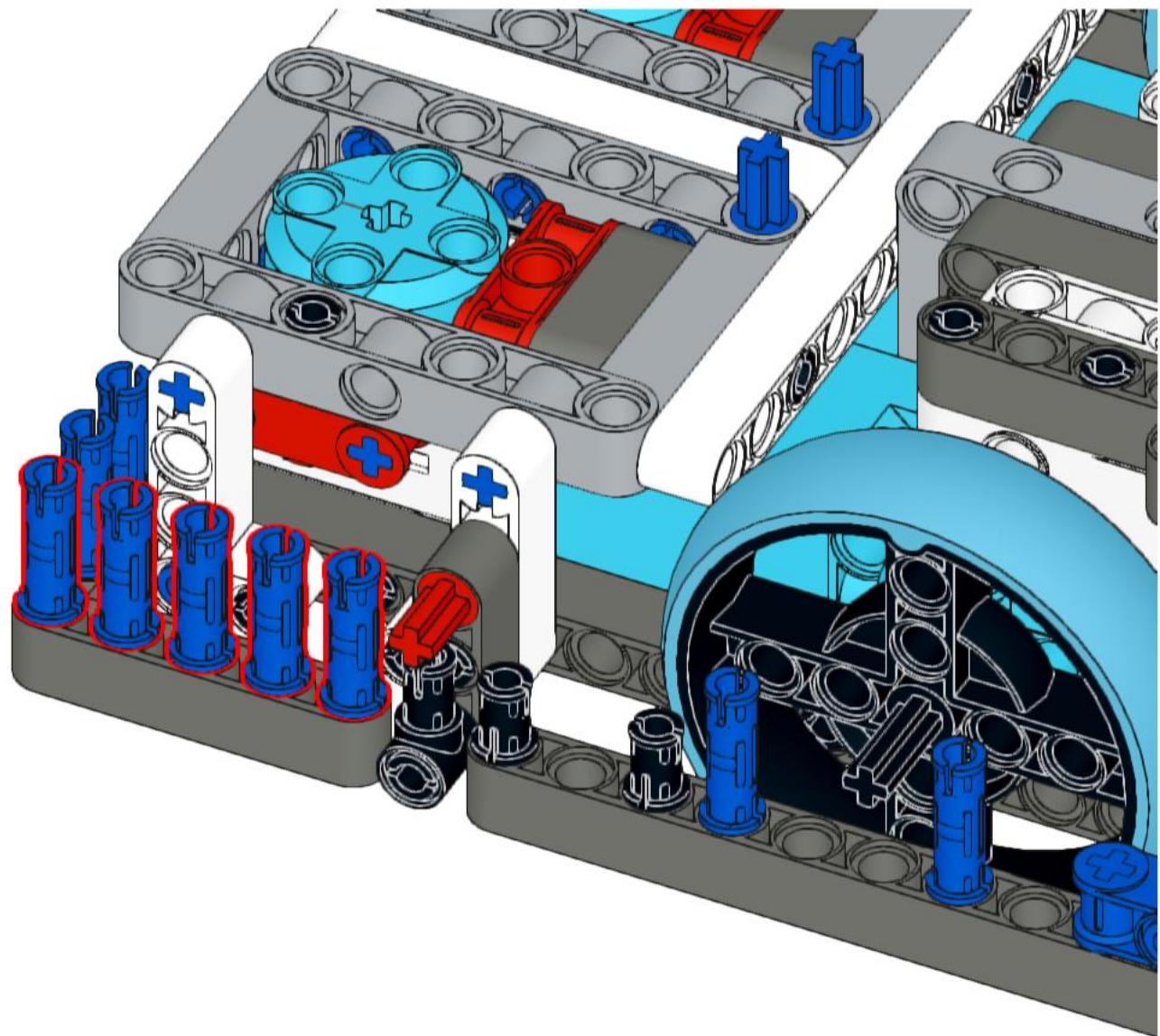
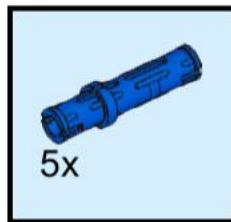
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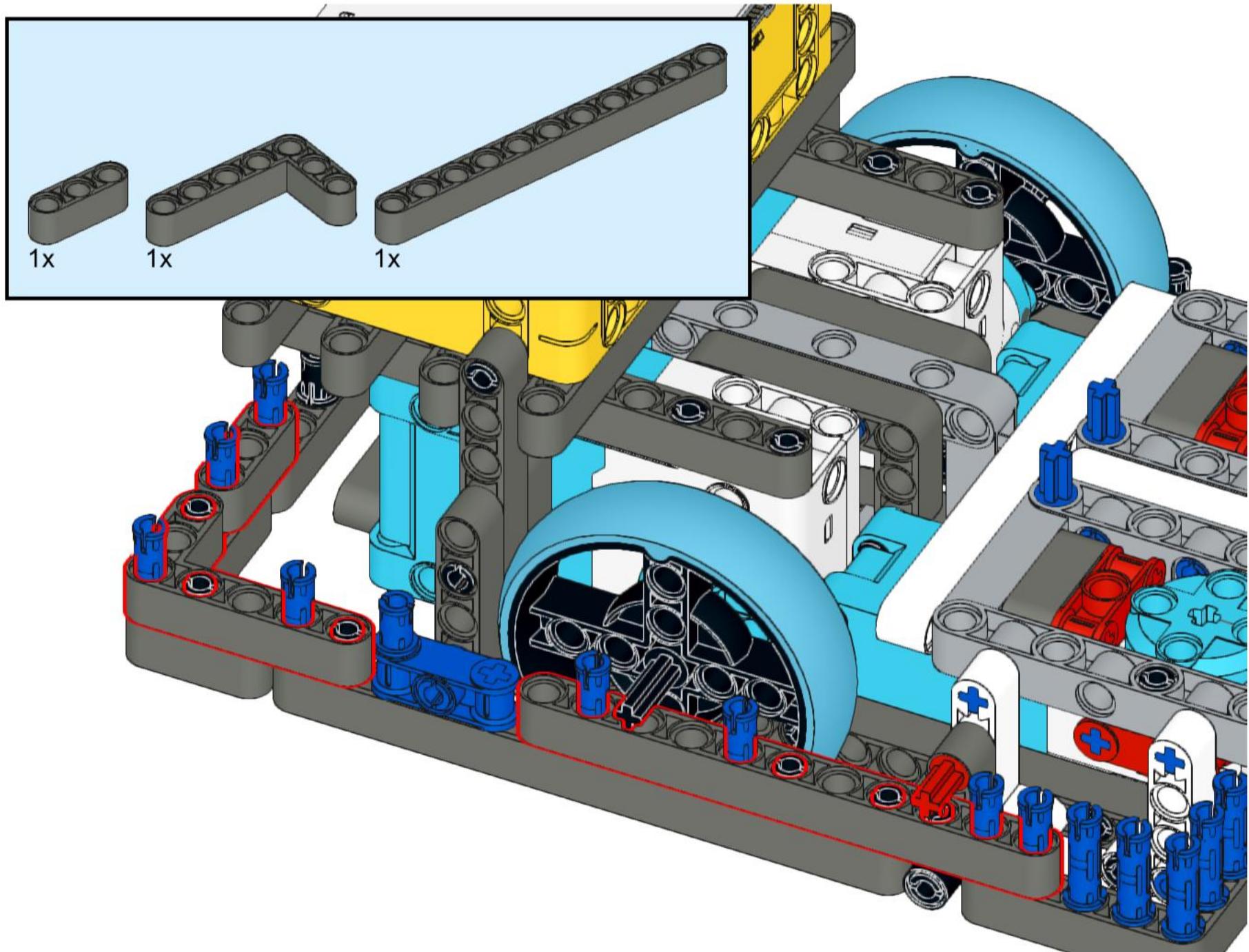
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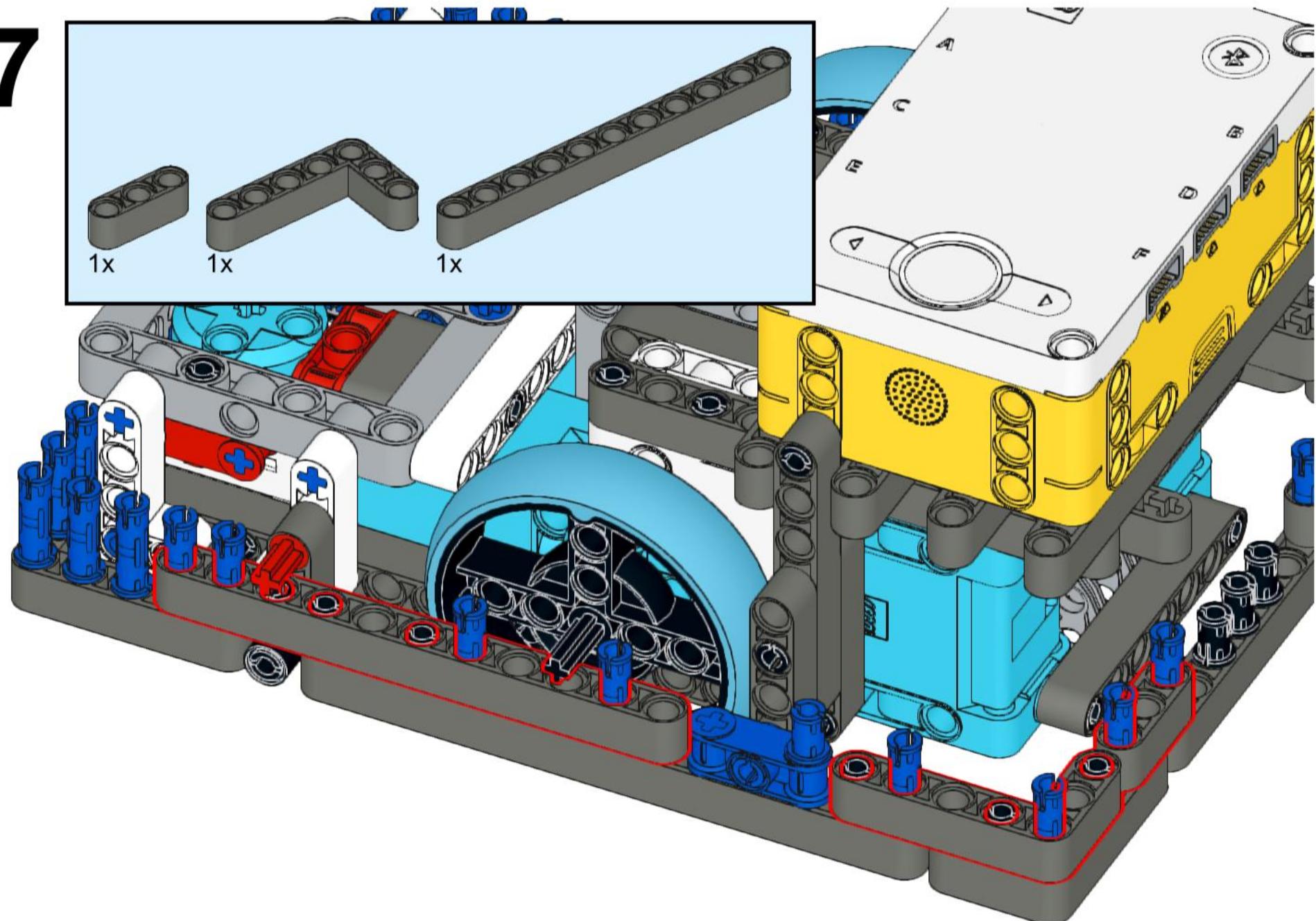
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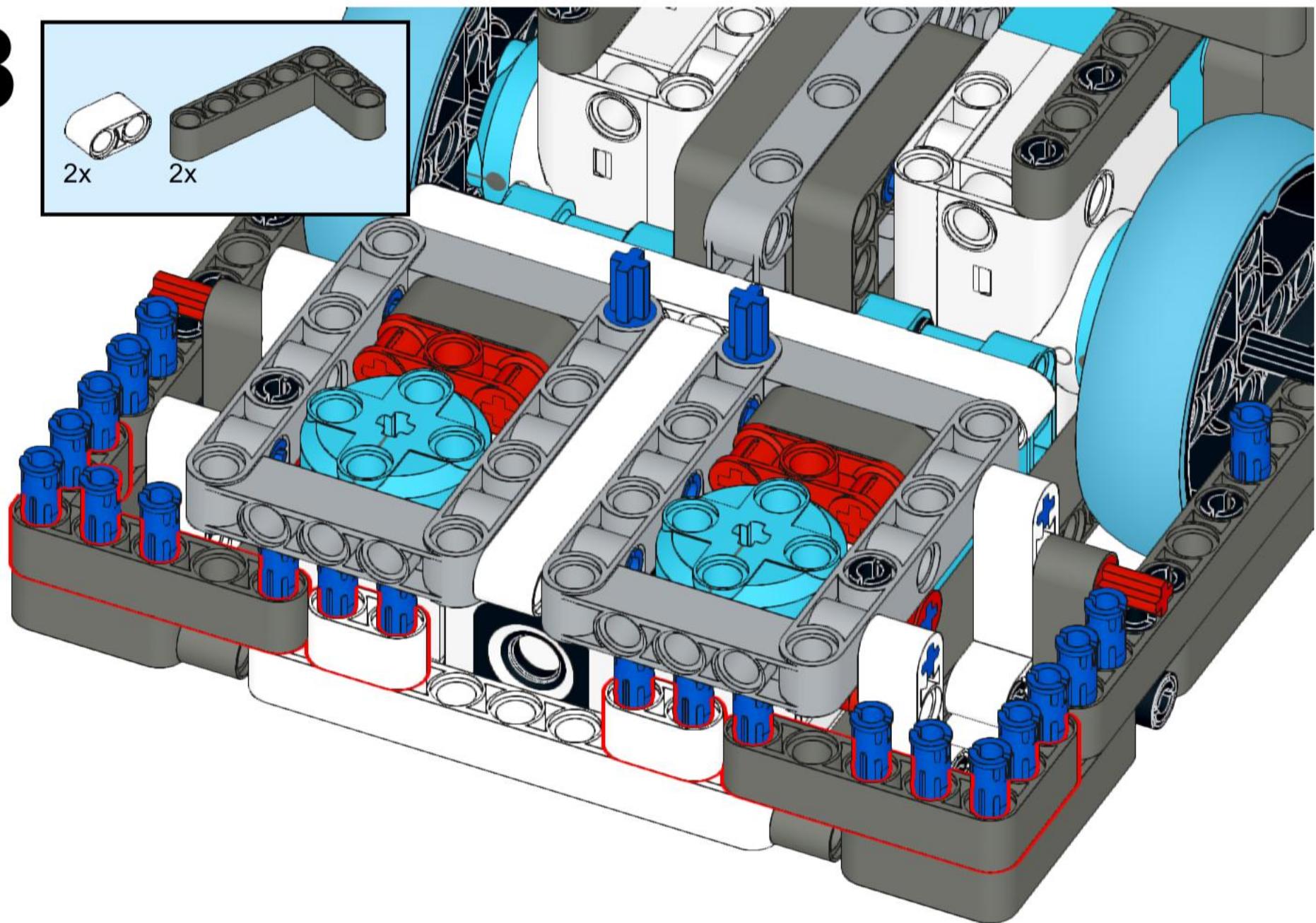
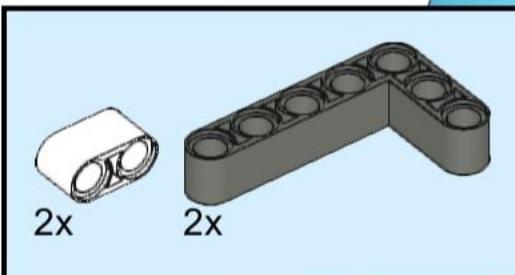
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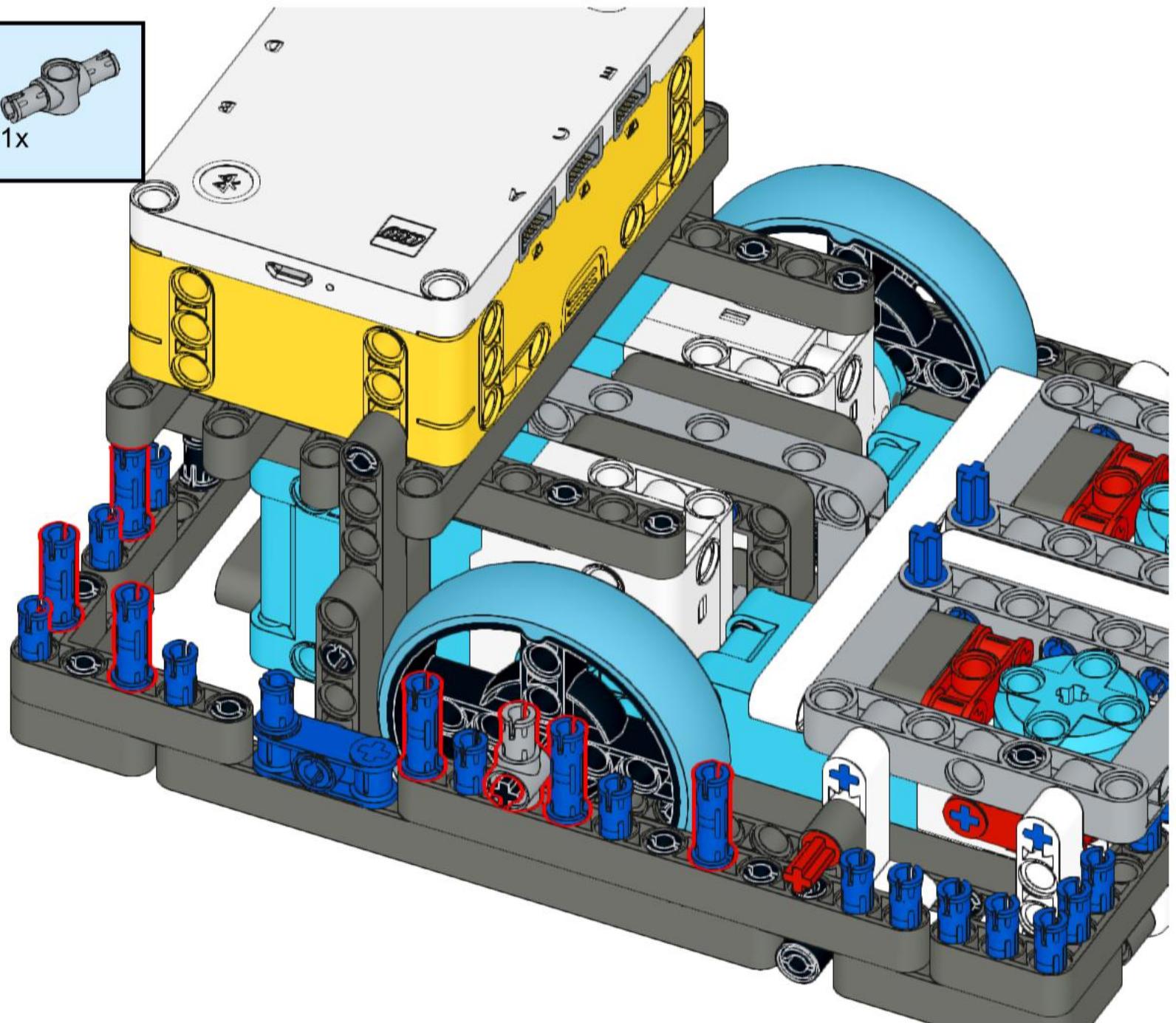
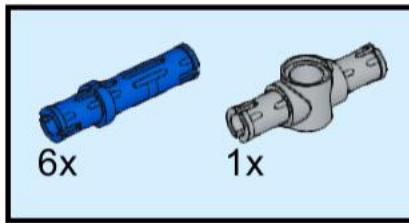
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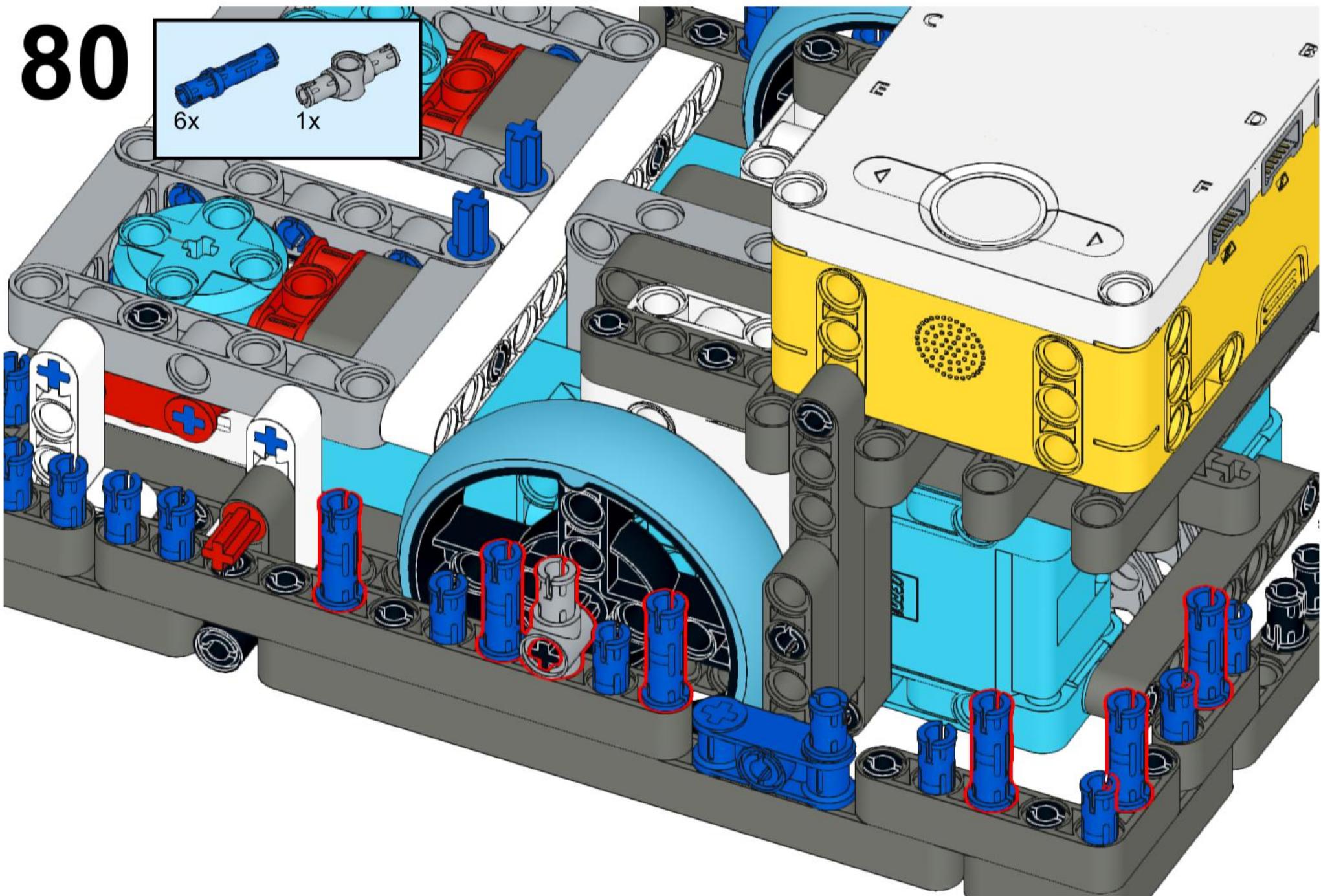
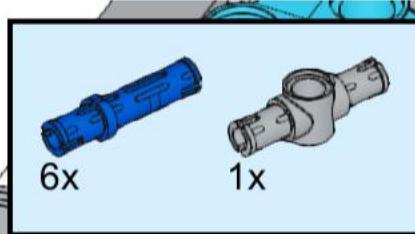
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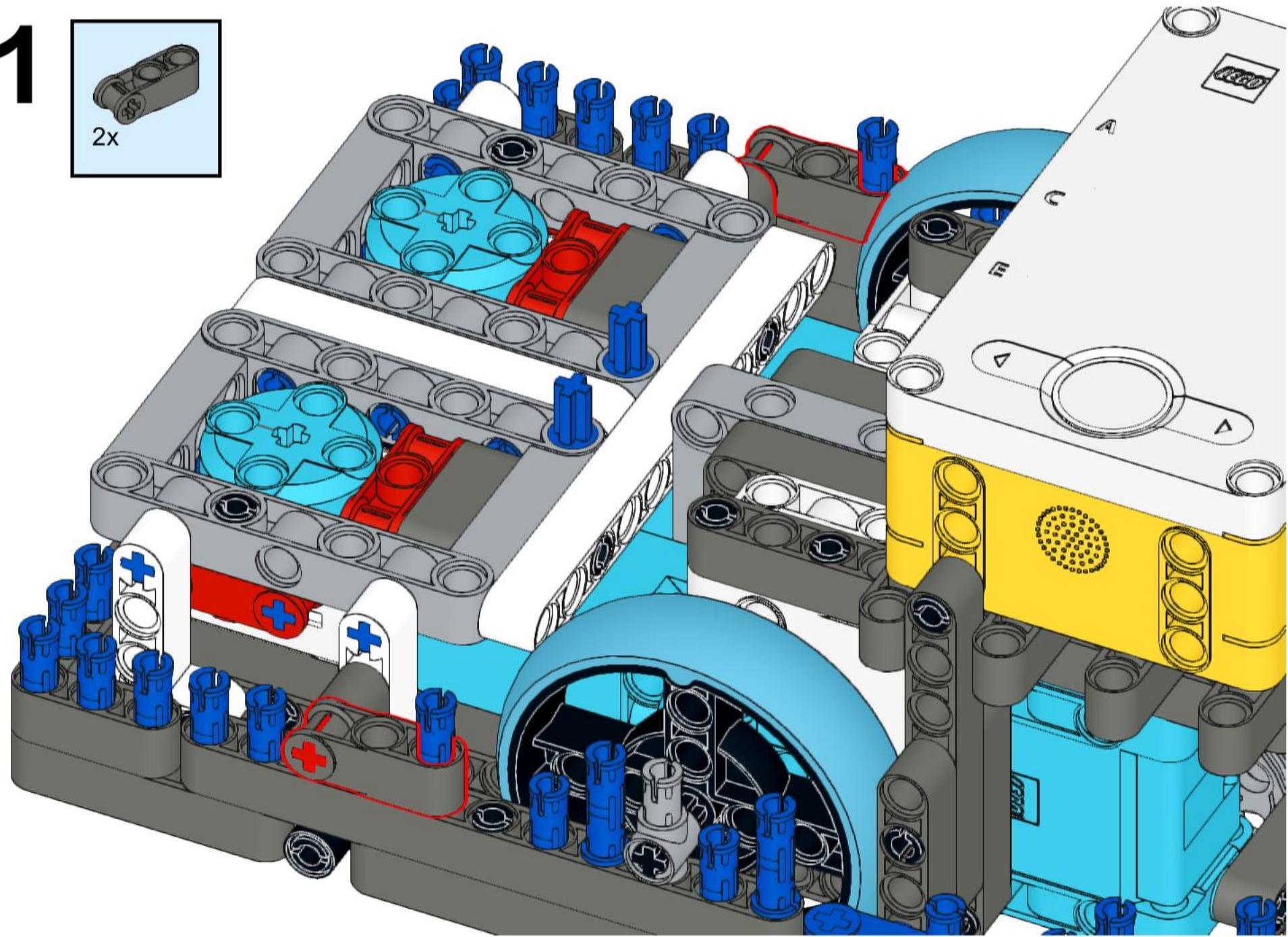
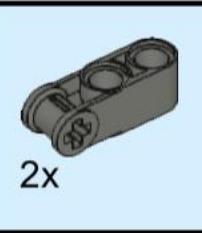
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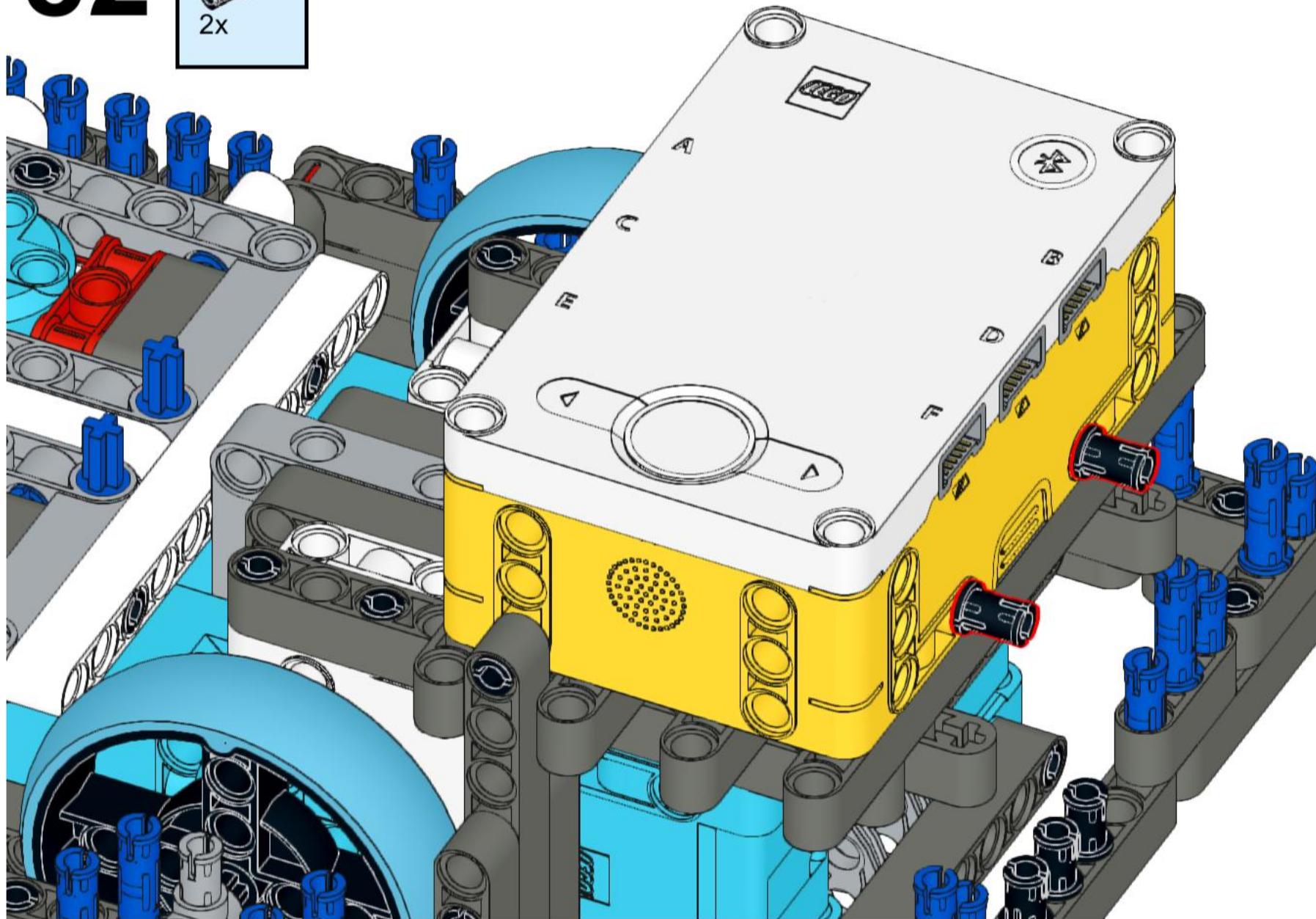
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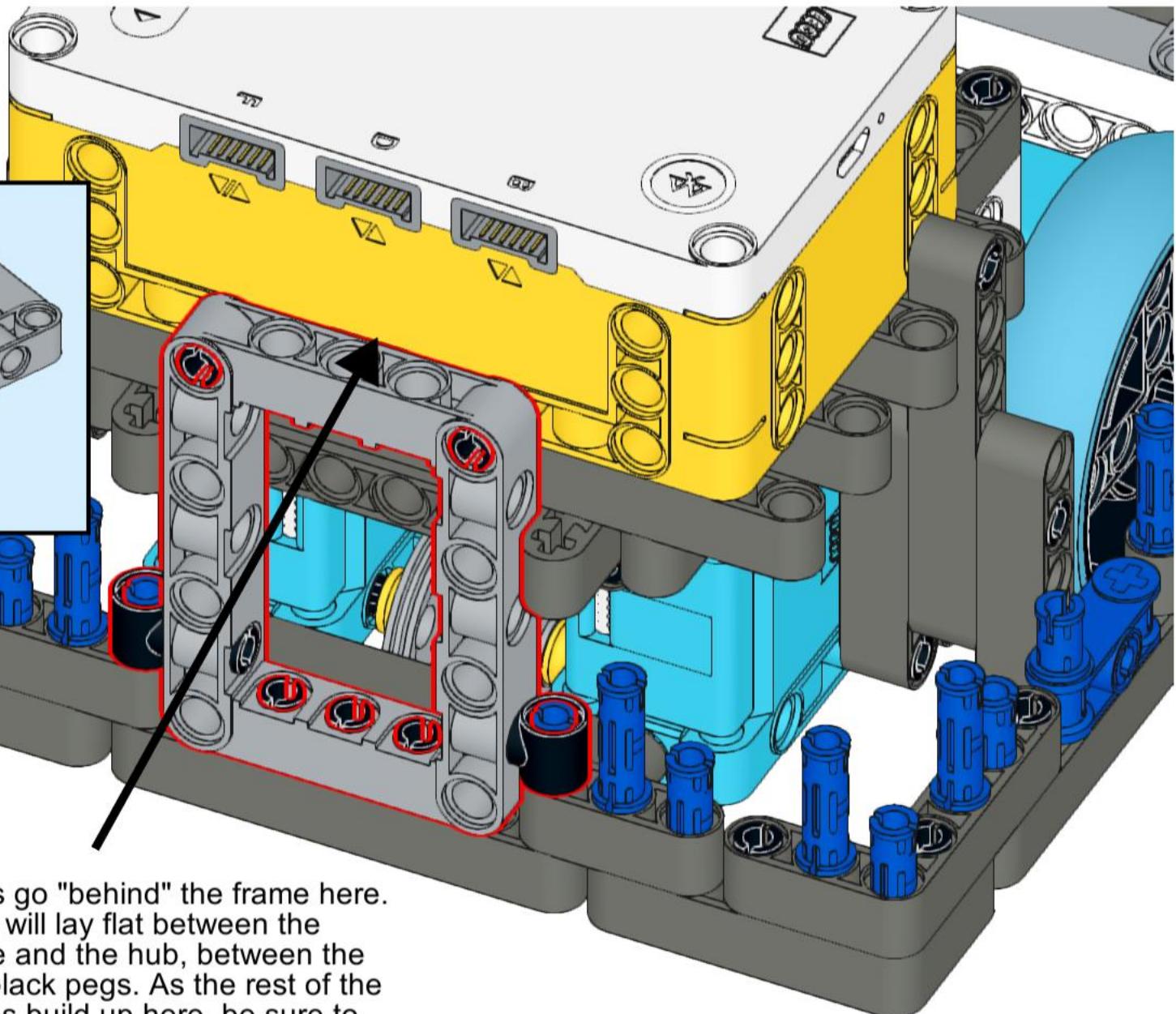
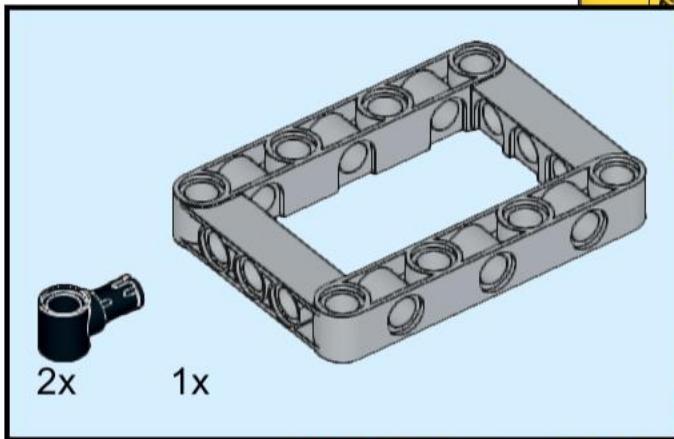
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**82**

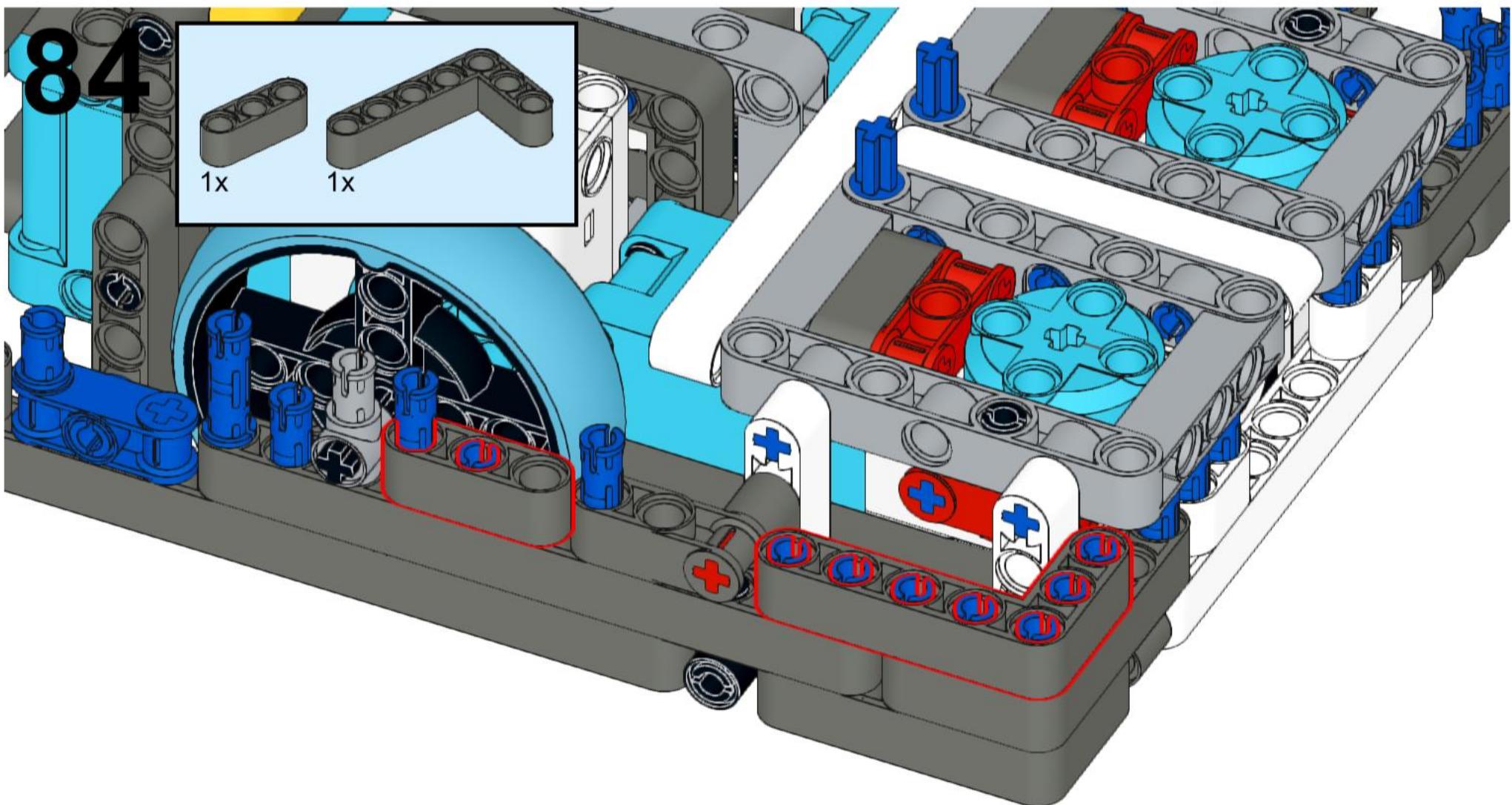
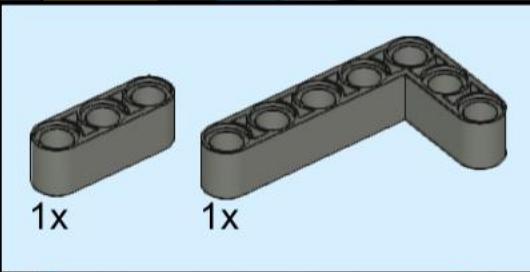


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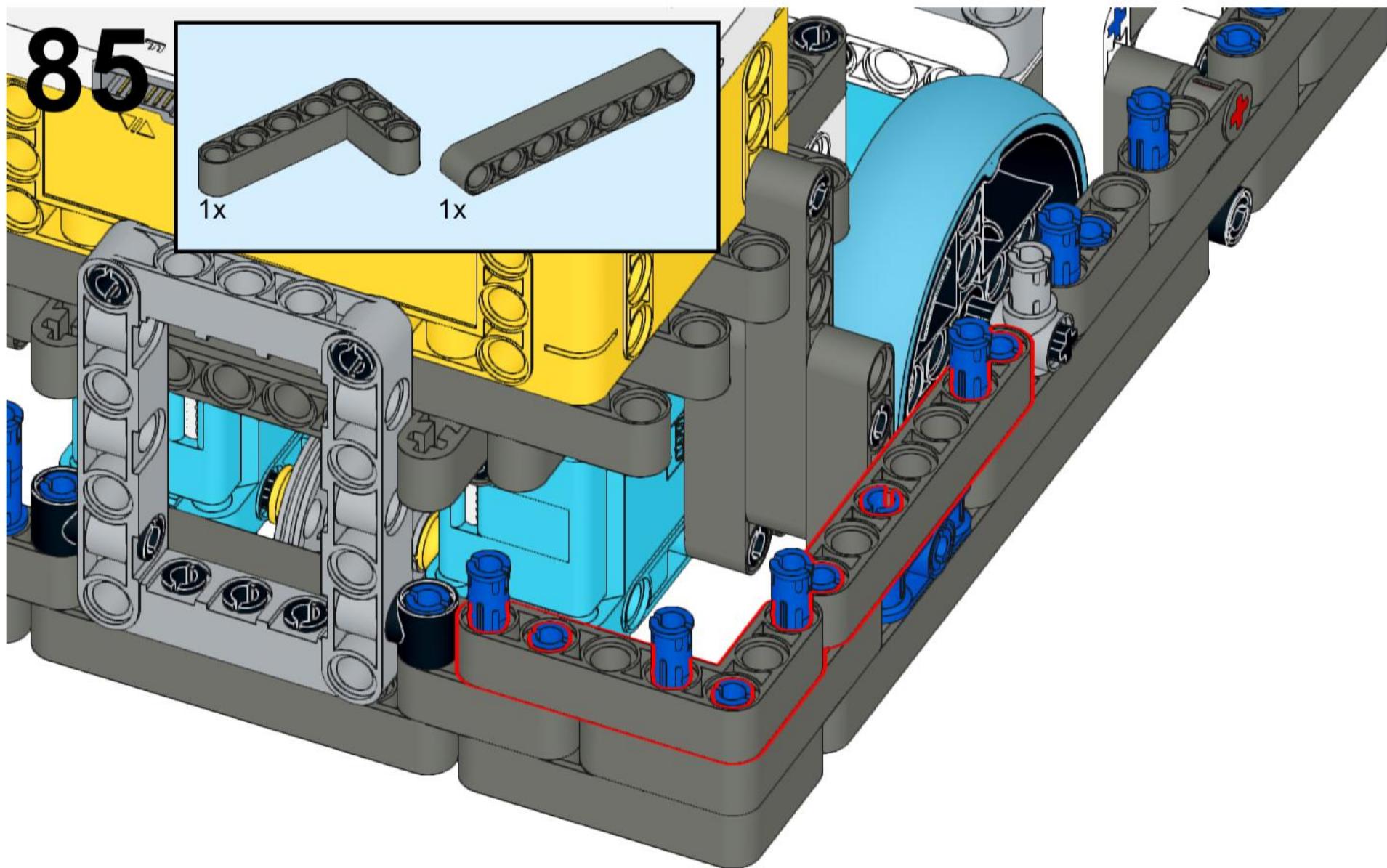
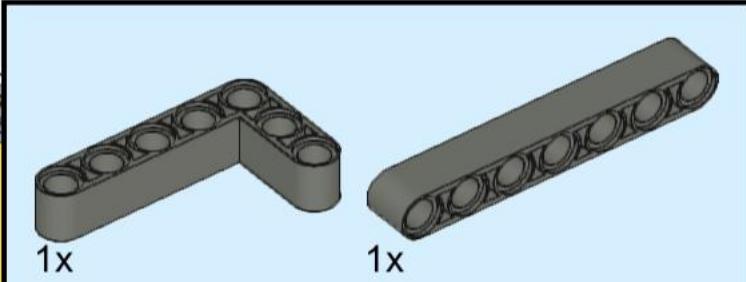


Wires go "behind" the frame here. They will lay flat between the frame and the hub, between the two black pegs. As the rest of the pieces build up here, be sure to keep the wires between the hub and beams.

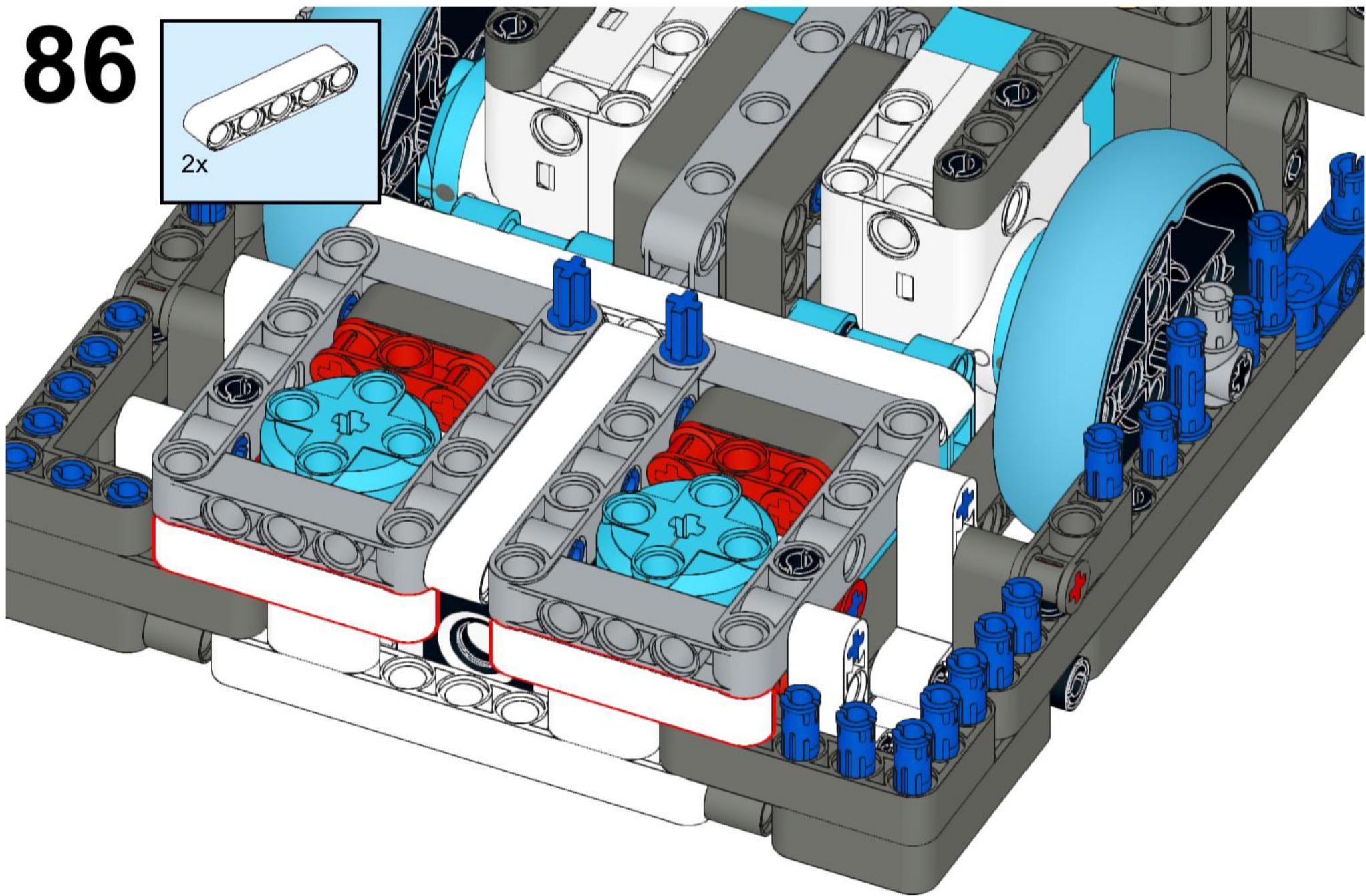
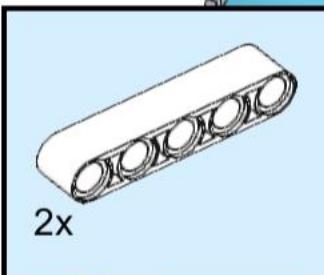
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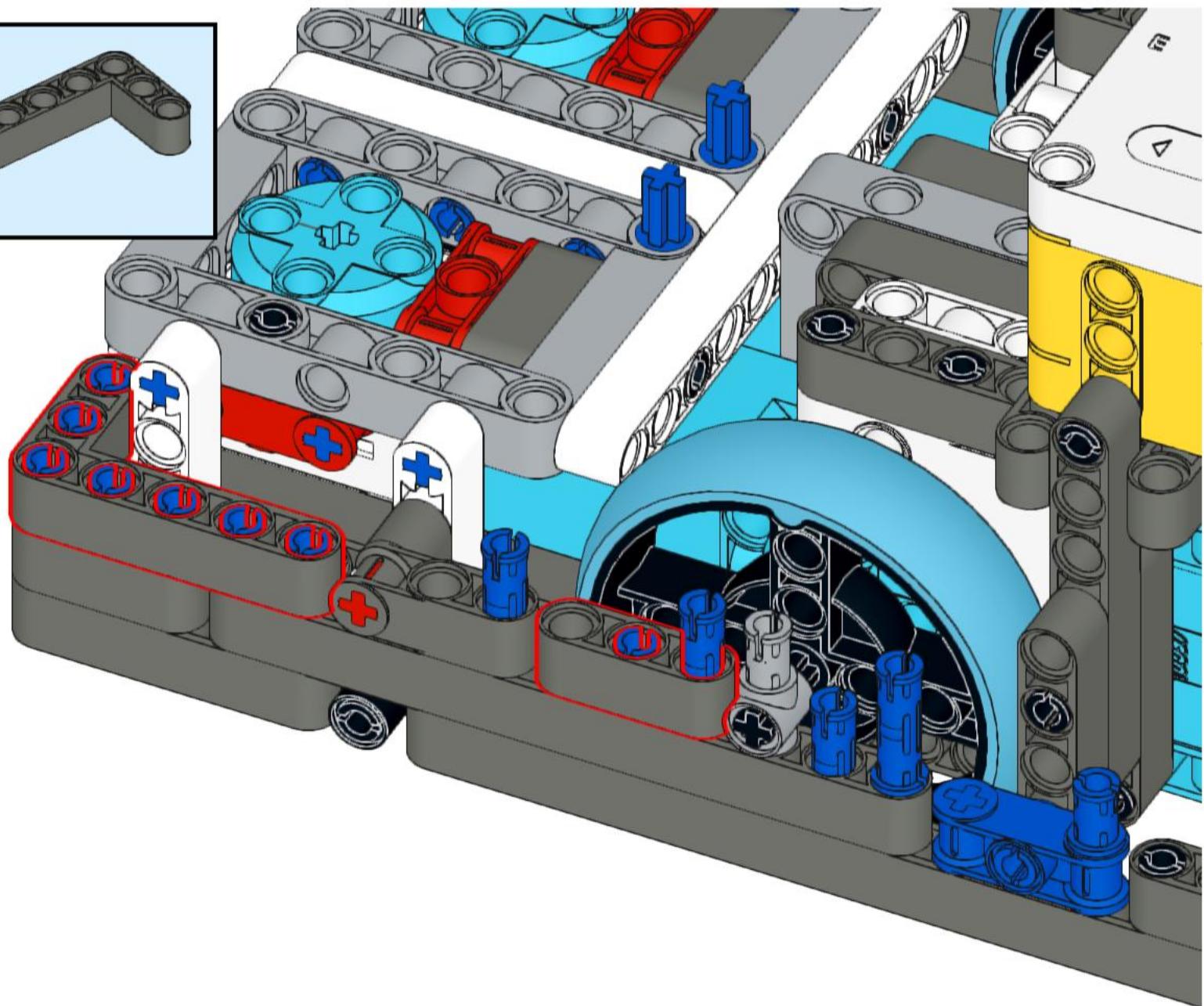
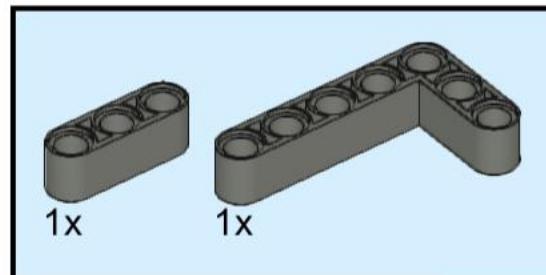
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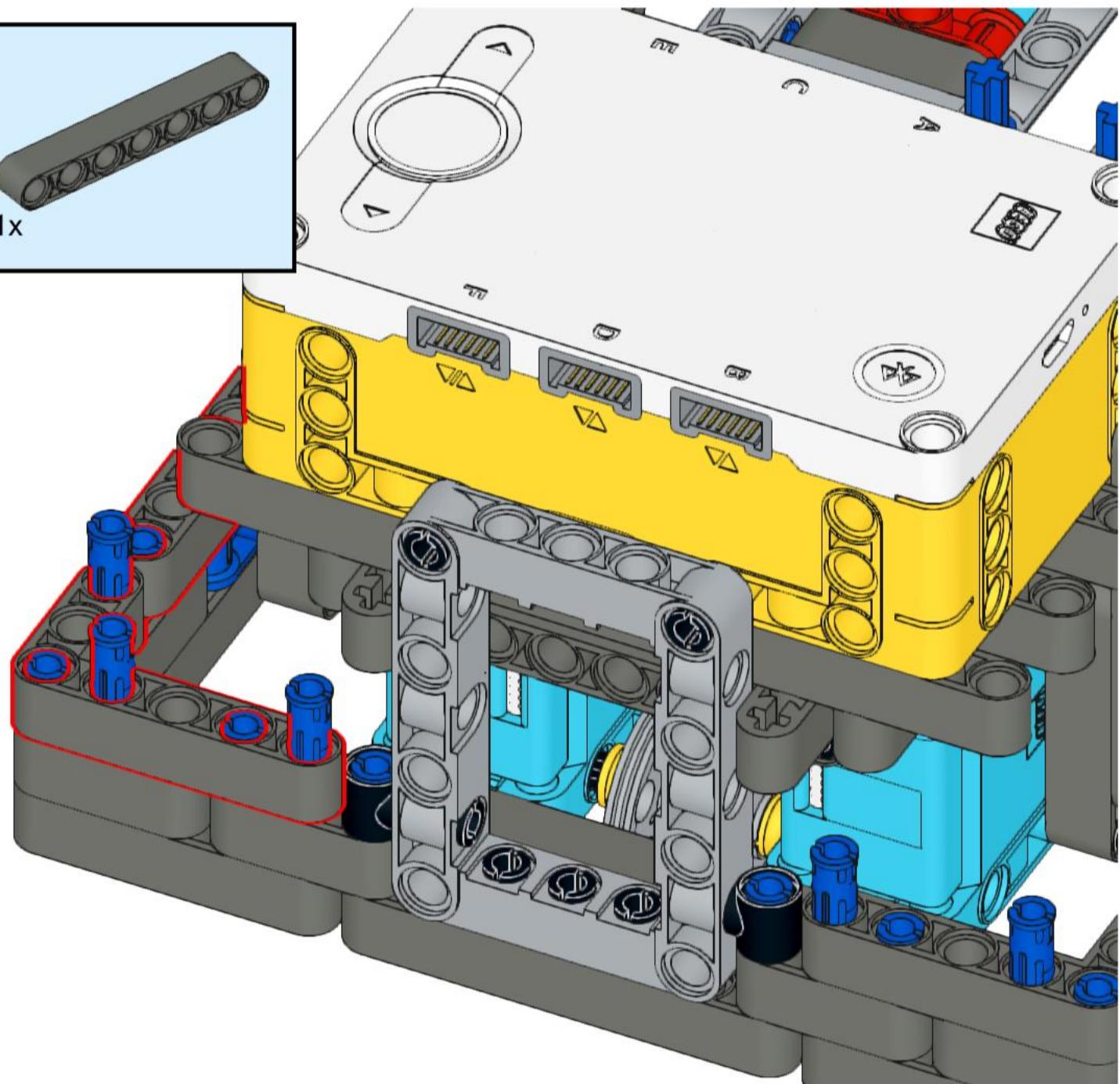
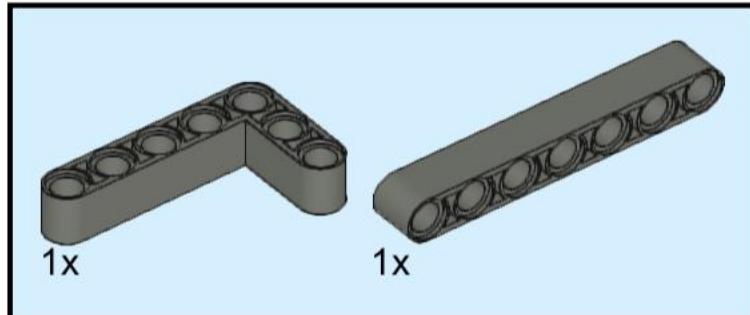
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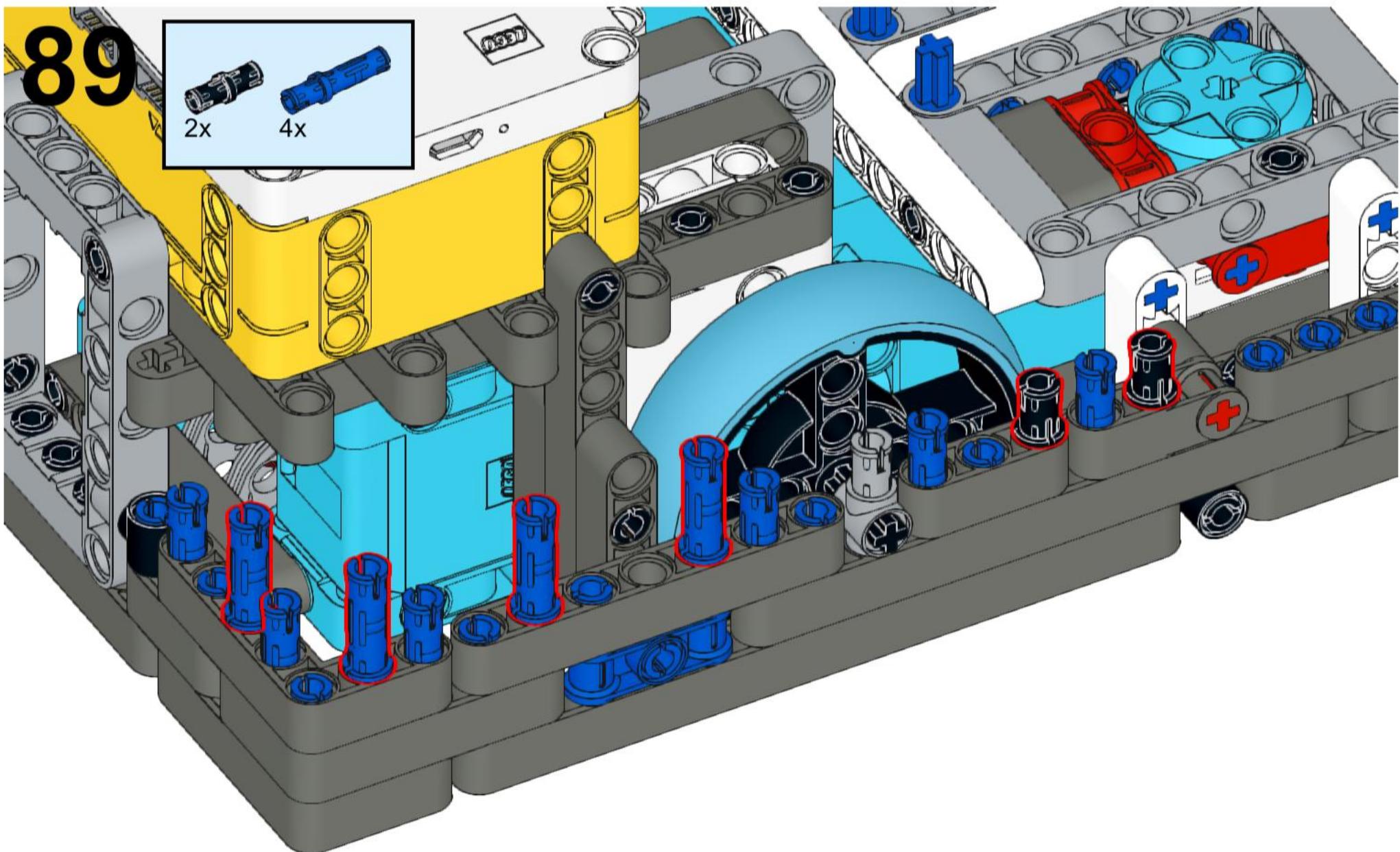
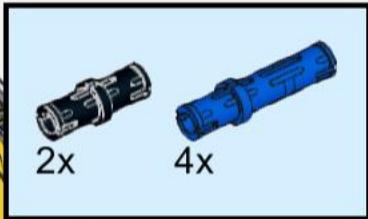
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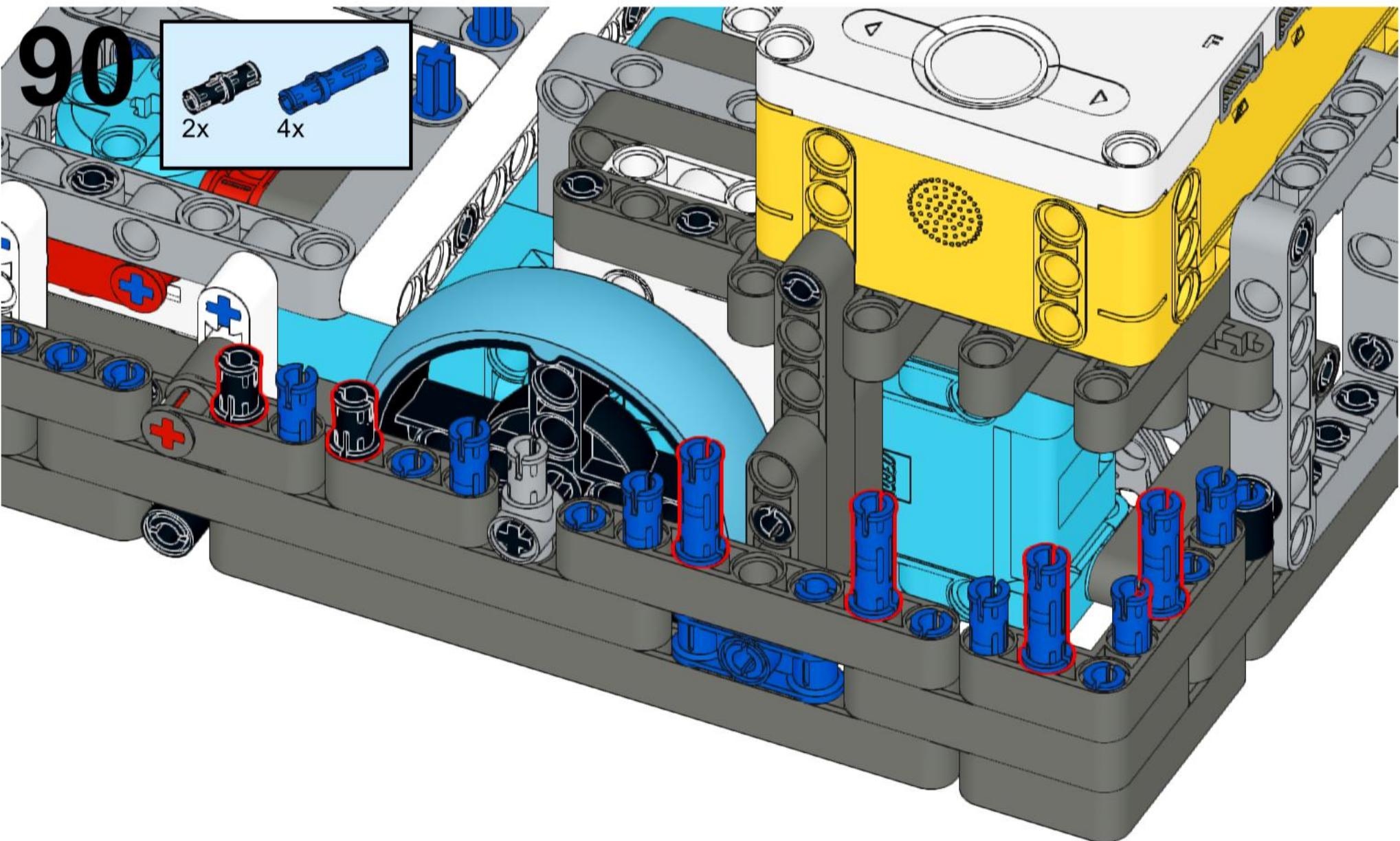


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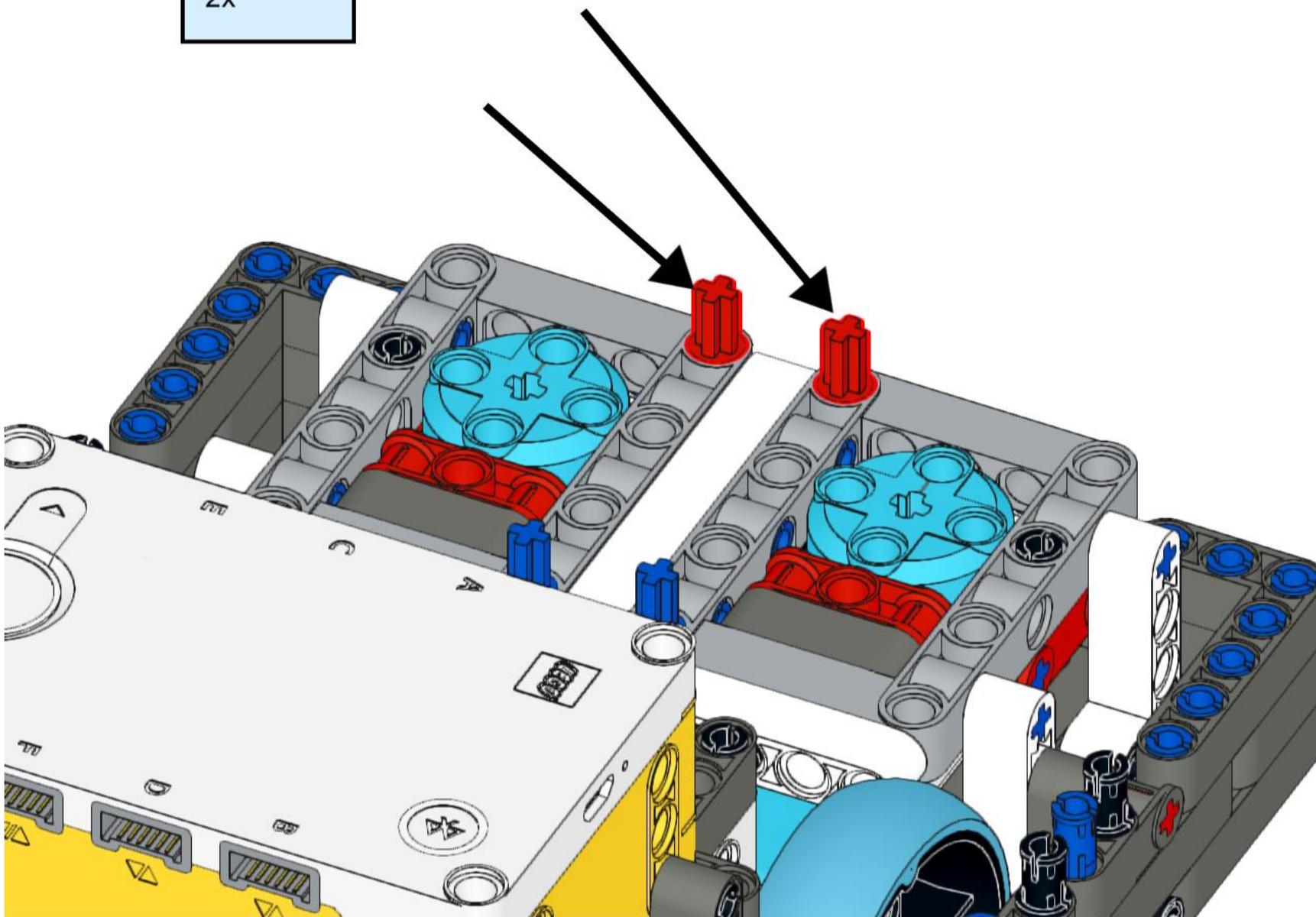
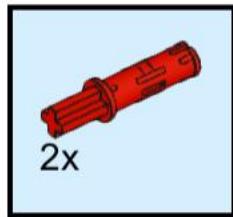


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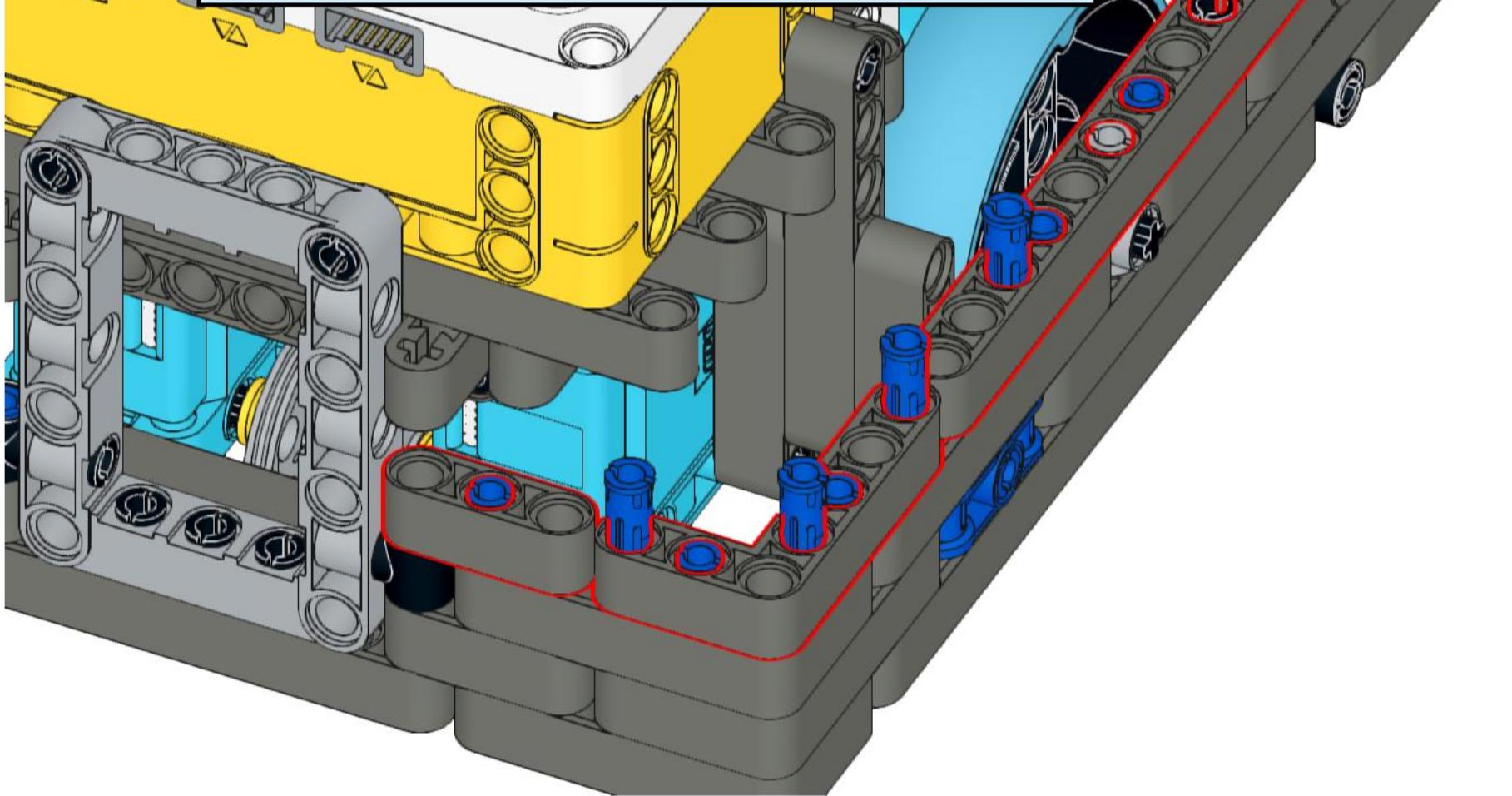
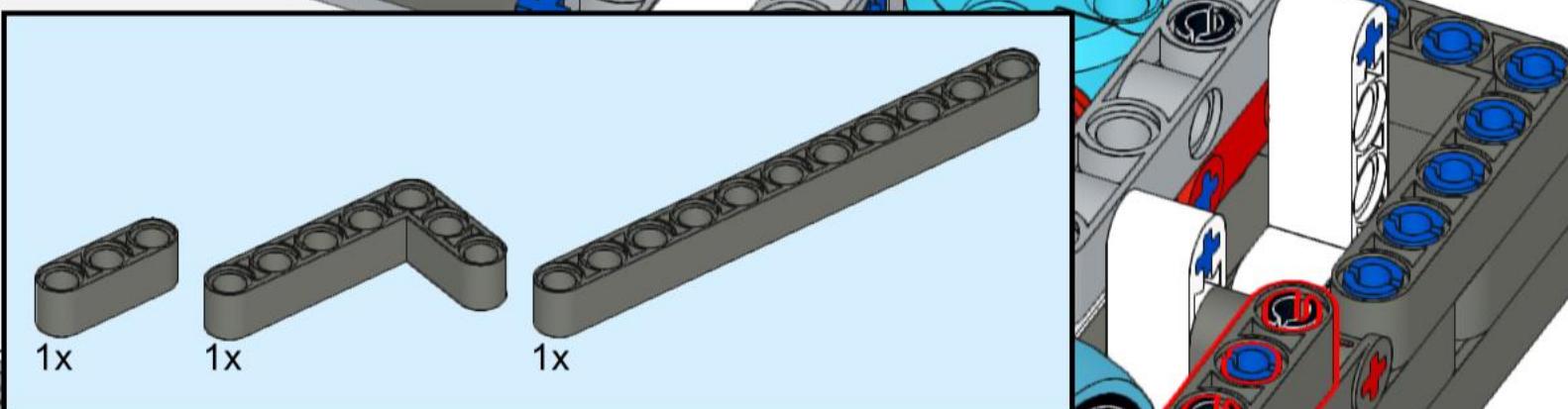


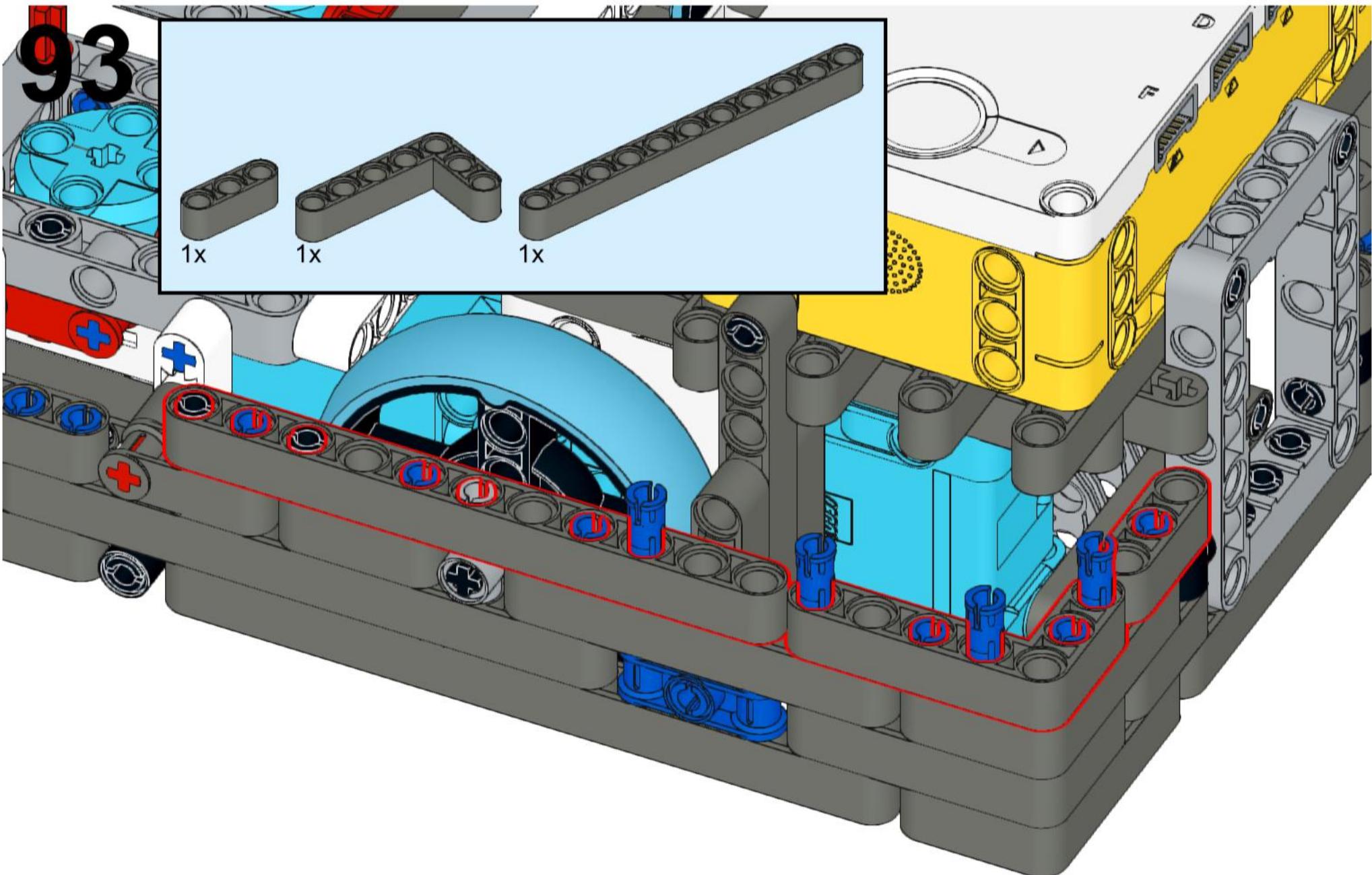


**91**



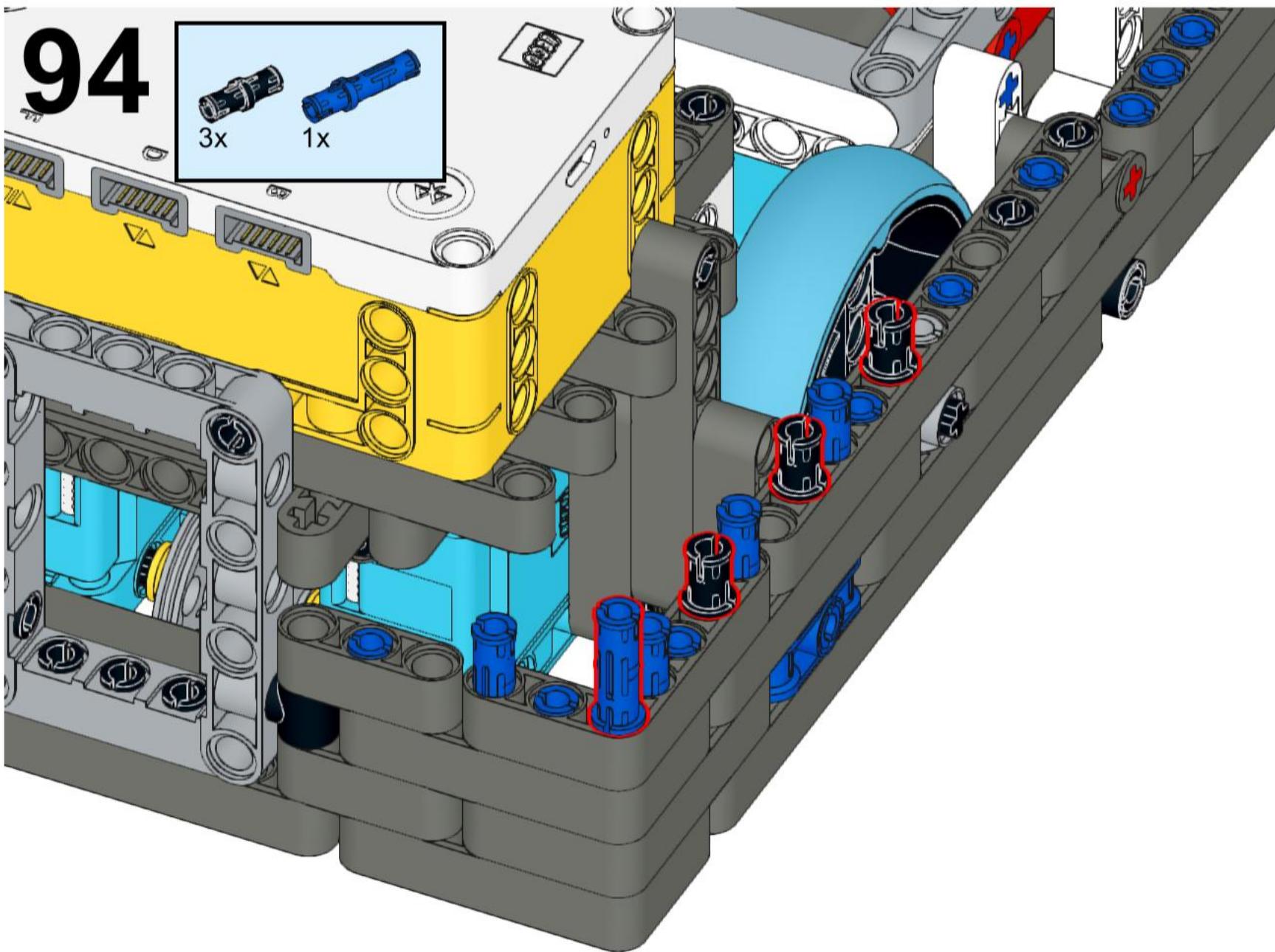
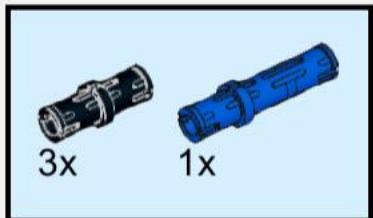
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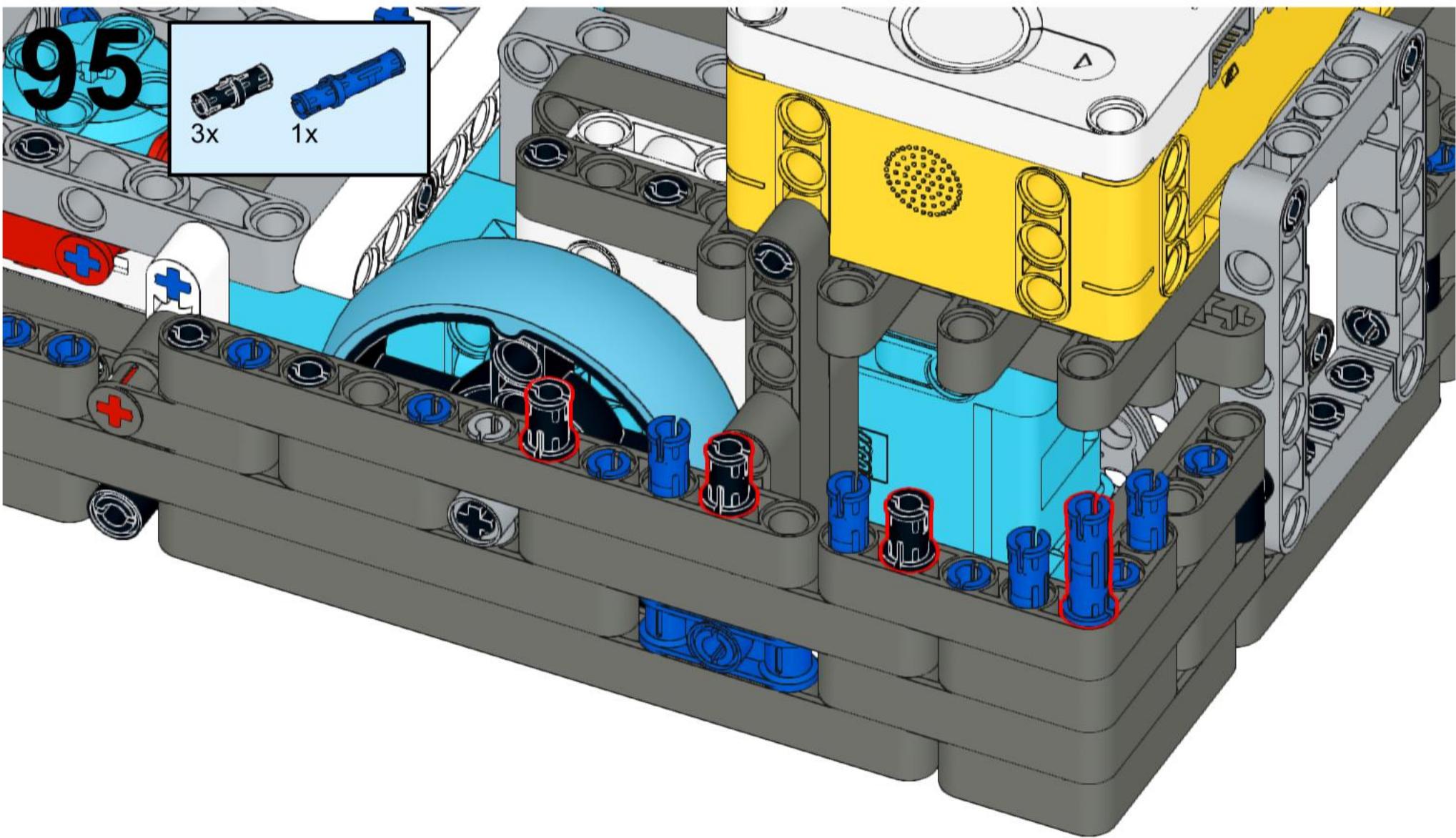




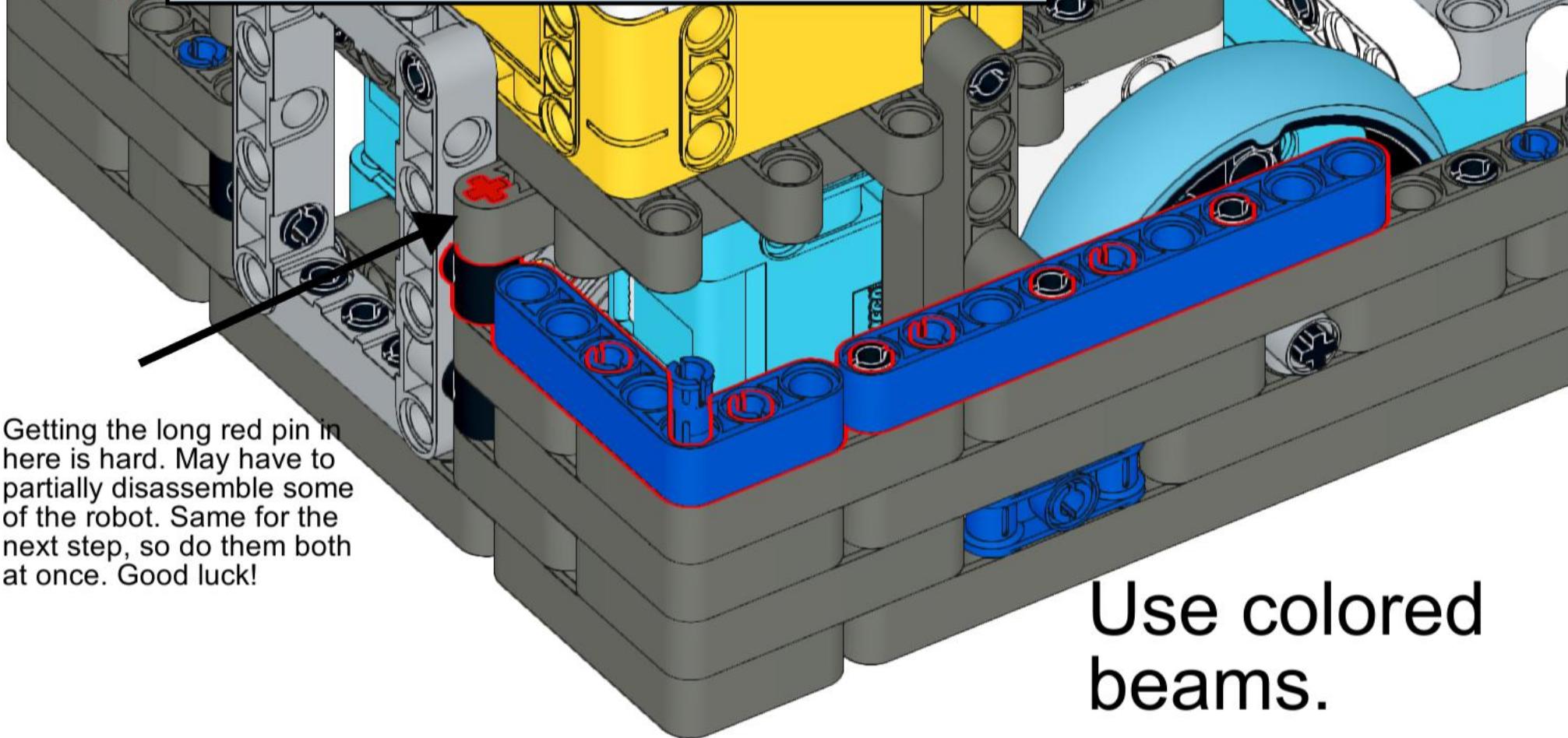
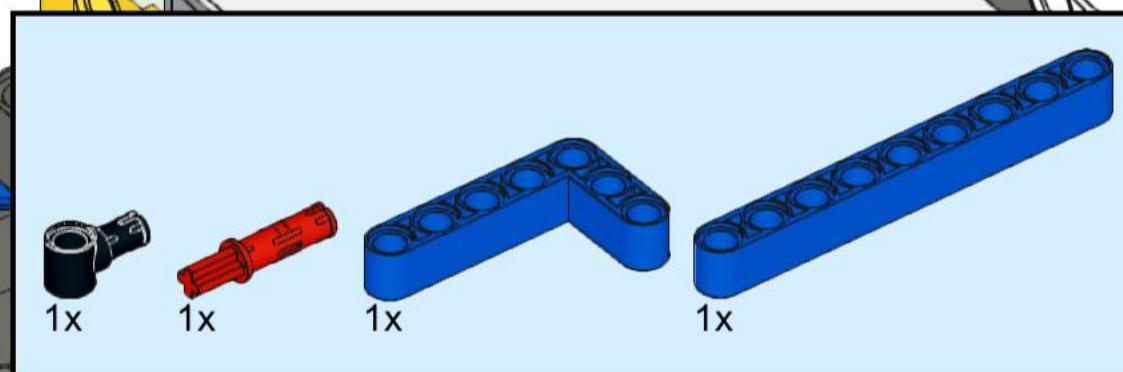
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94





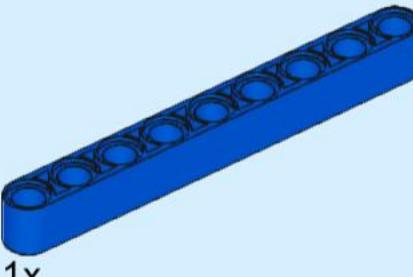
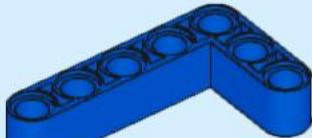
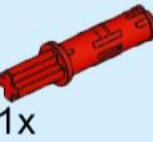
**96**



Getting the long red pin in here is hard. May have to partially disassemble some of the robot. Same for the next step, so do them both at once. Good luck!

**Use colored beams.**

97

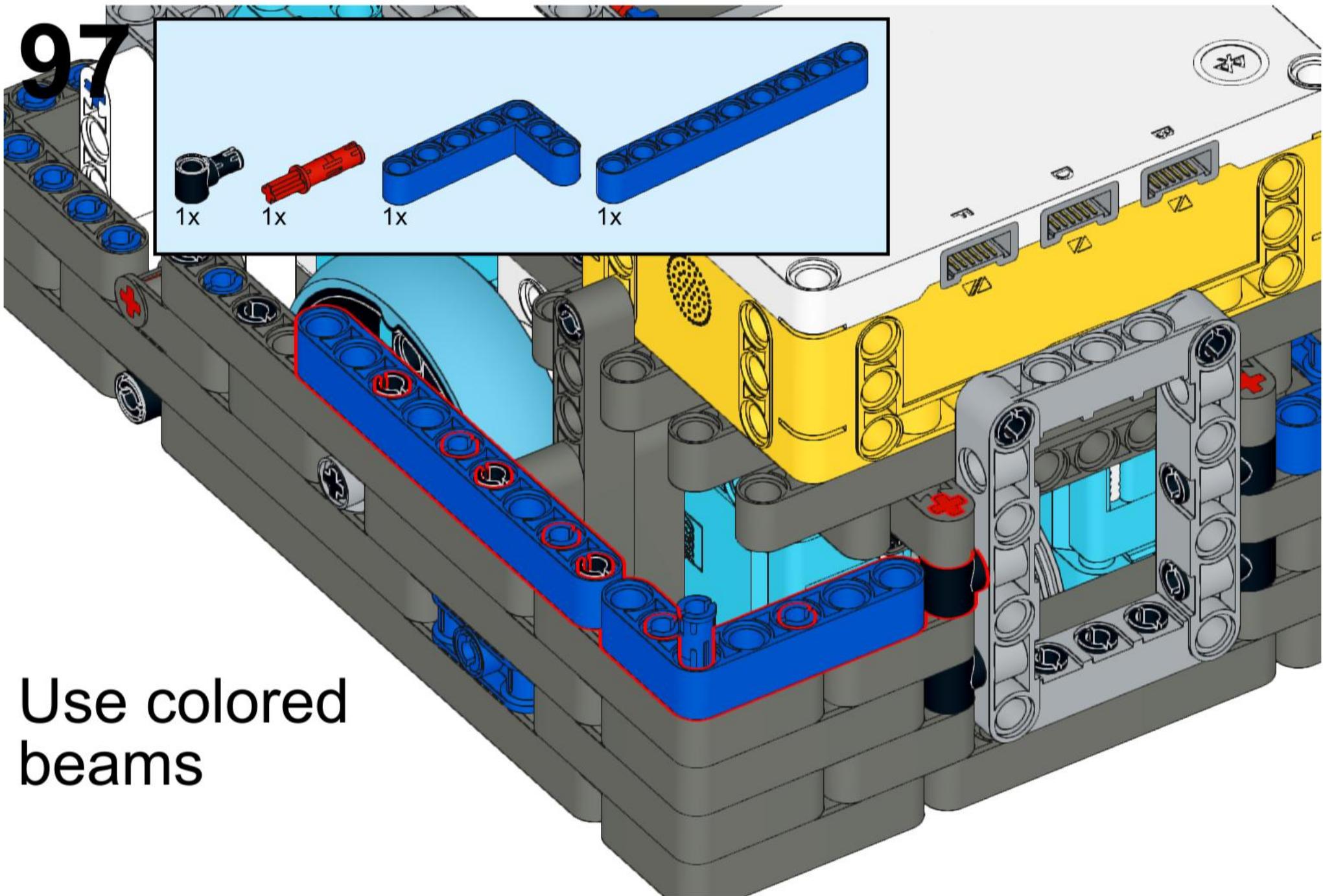


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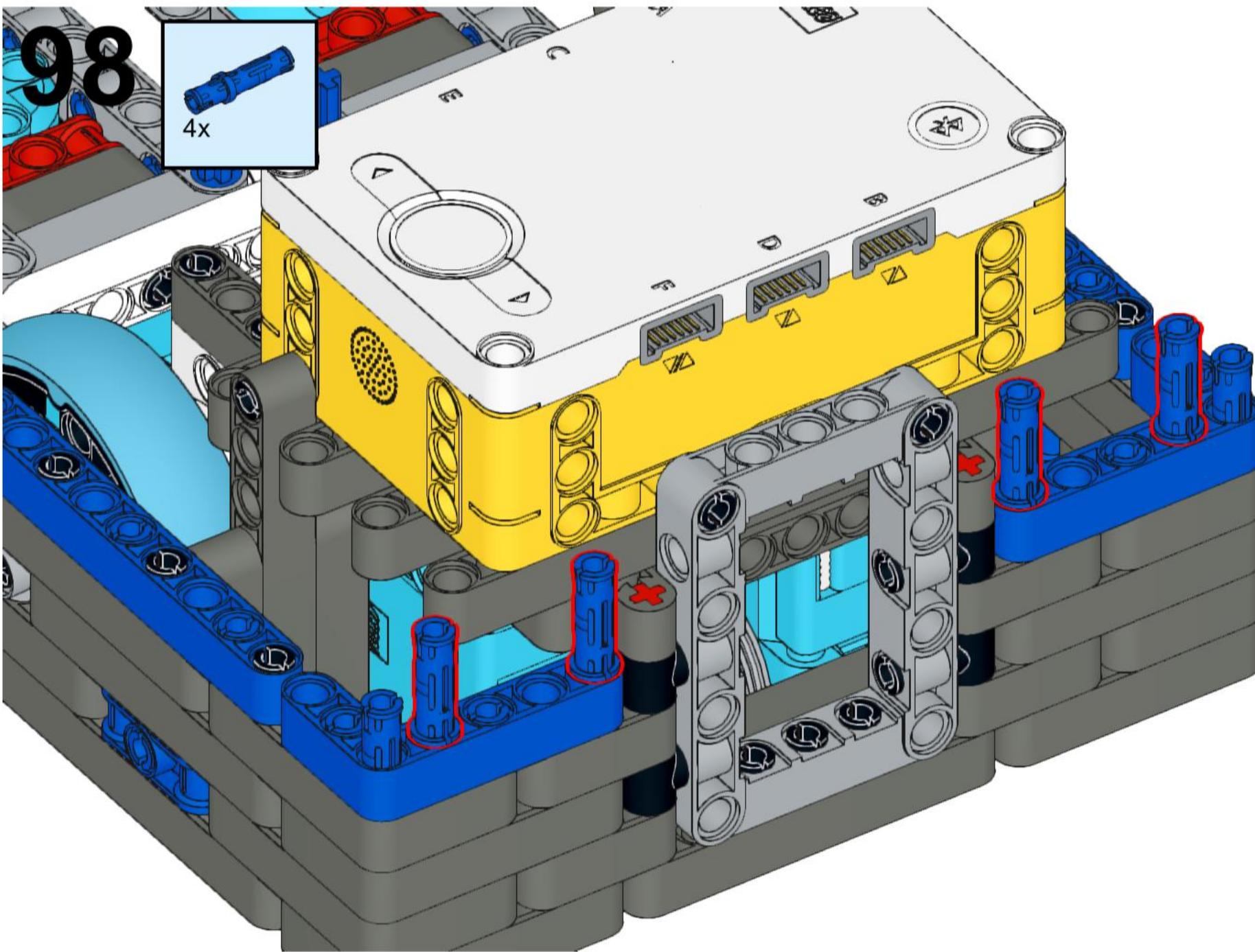
1x

1x

1x

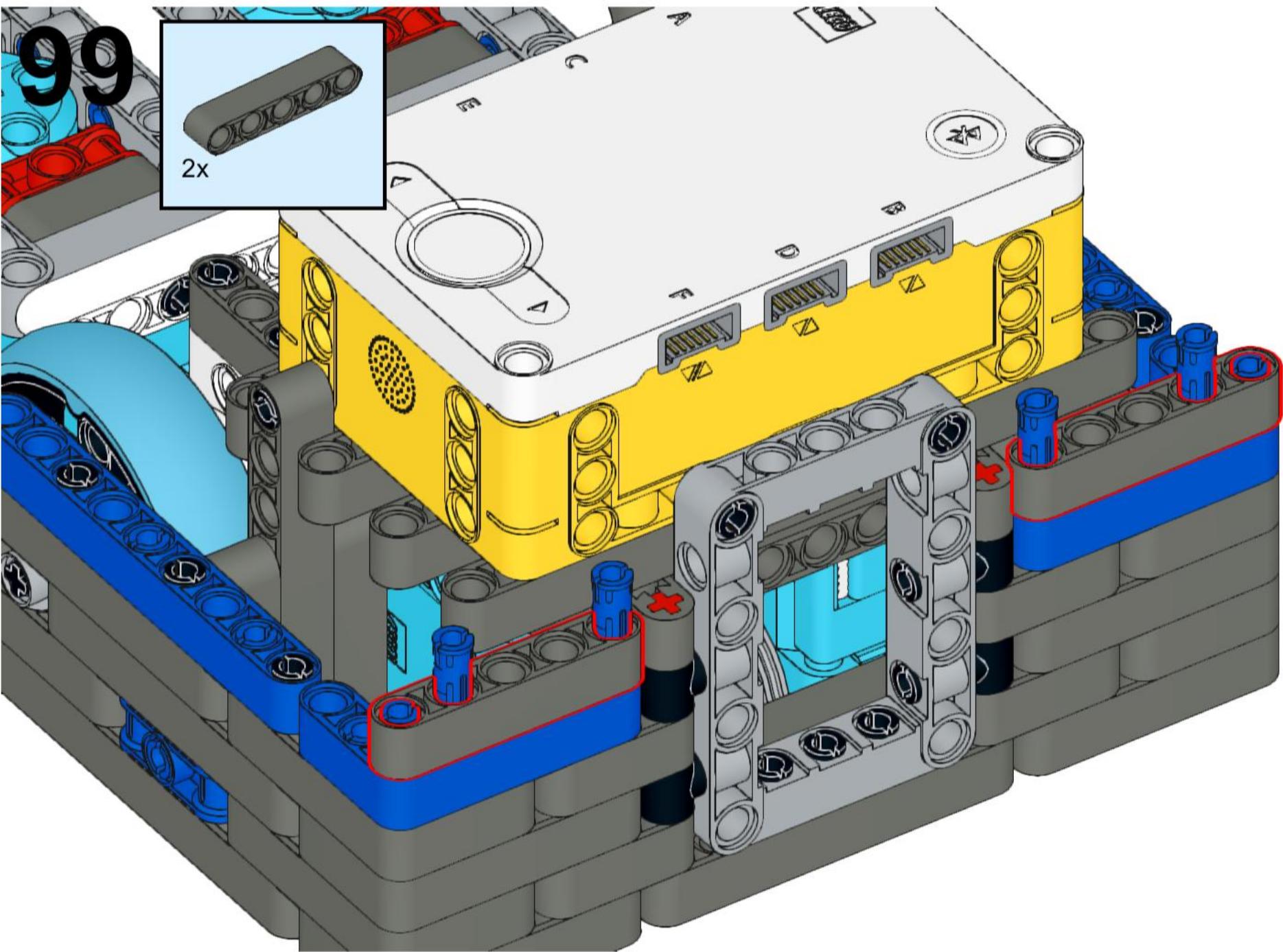


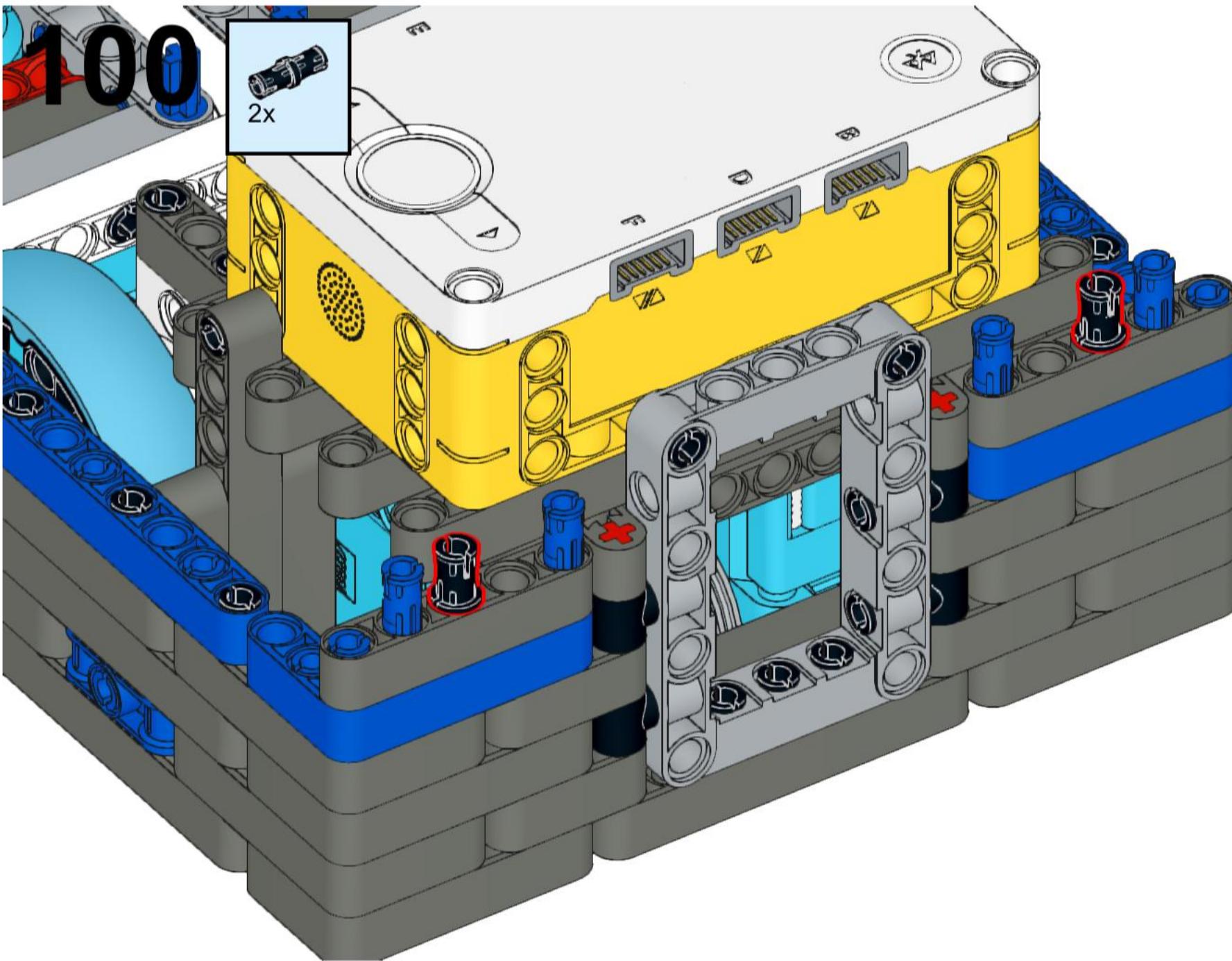
Use colored  
beams



98



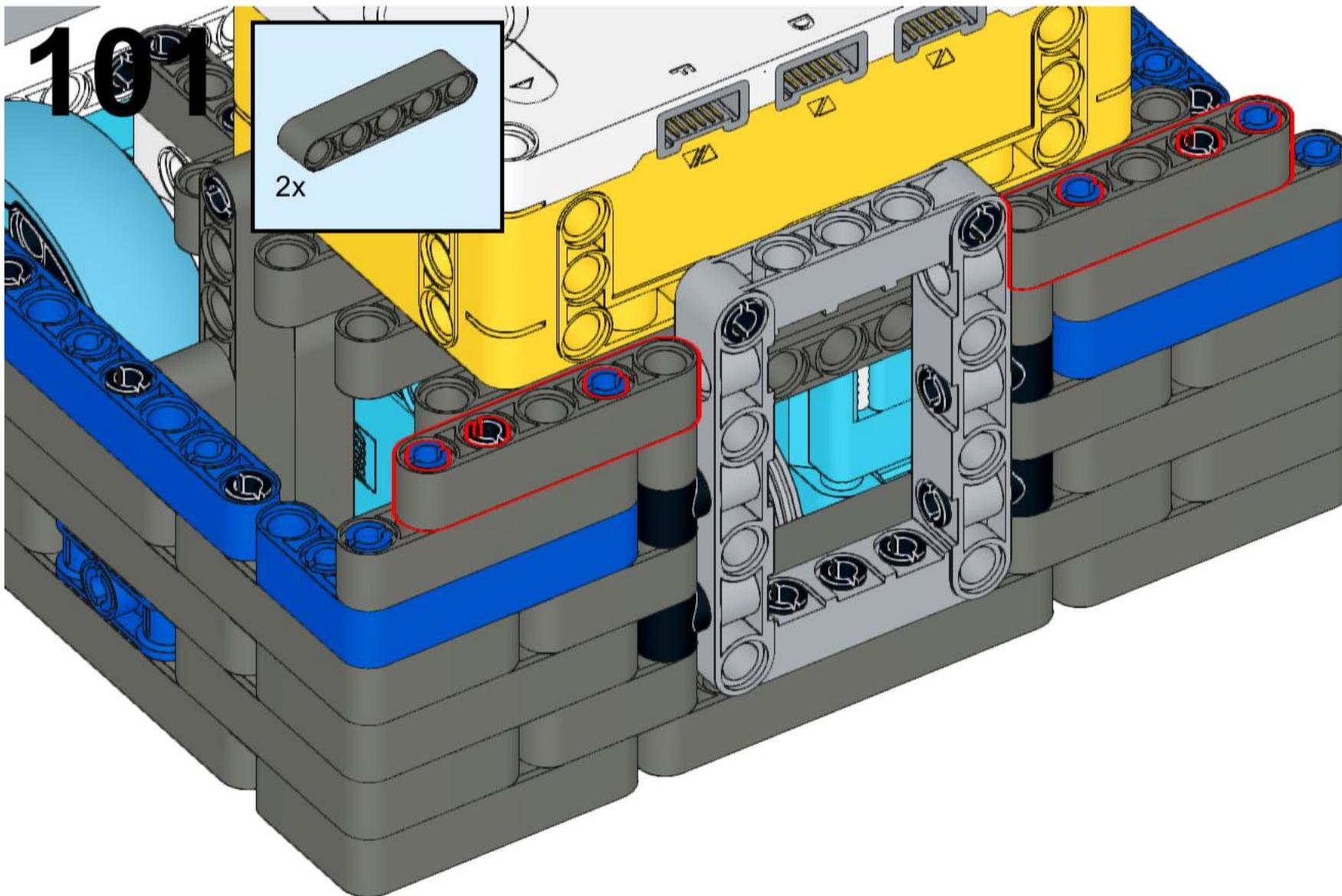
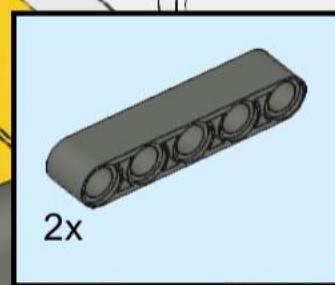


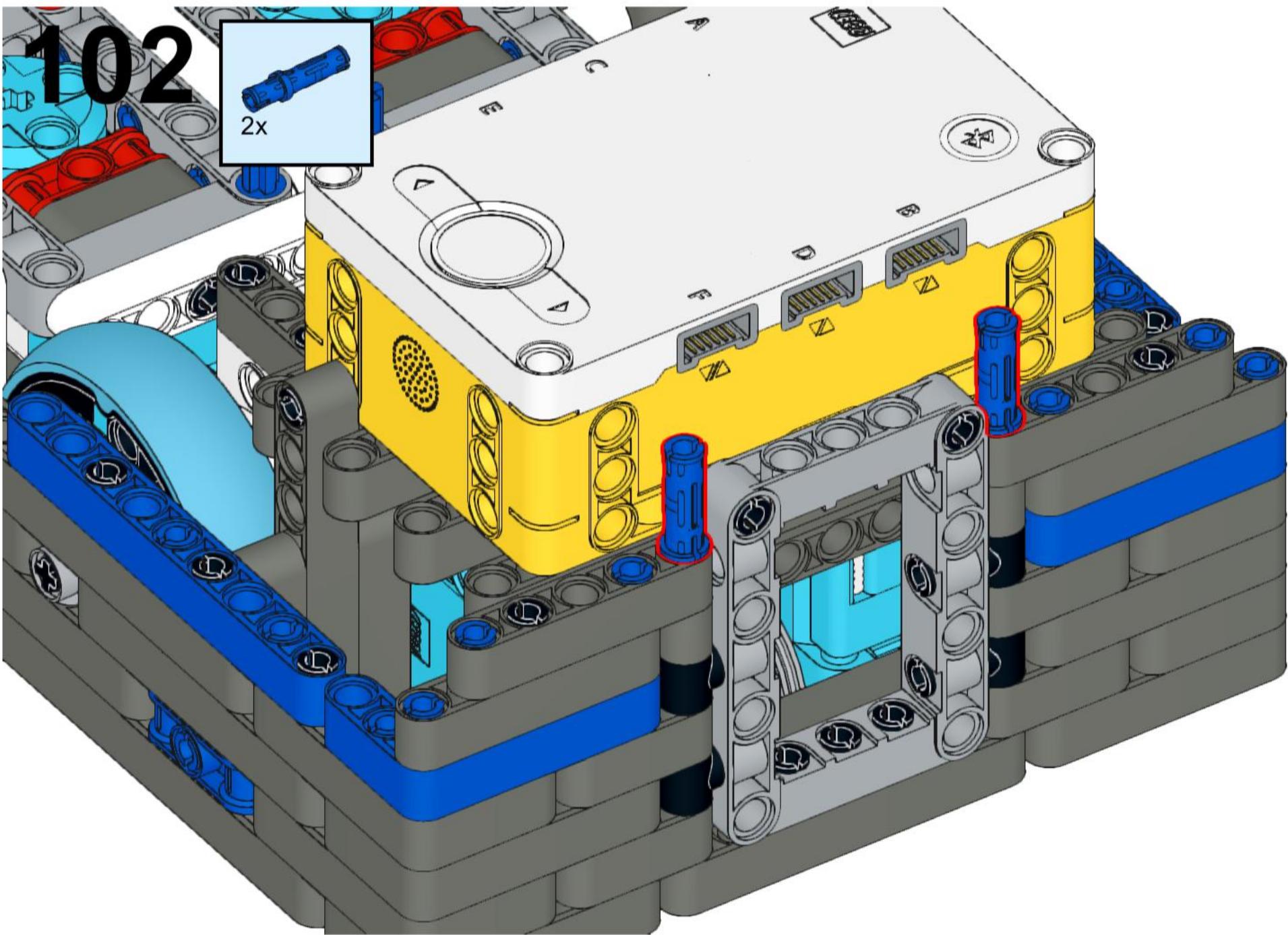


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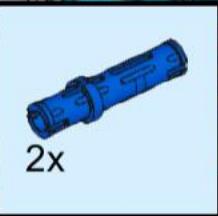
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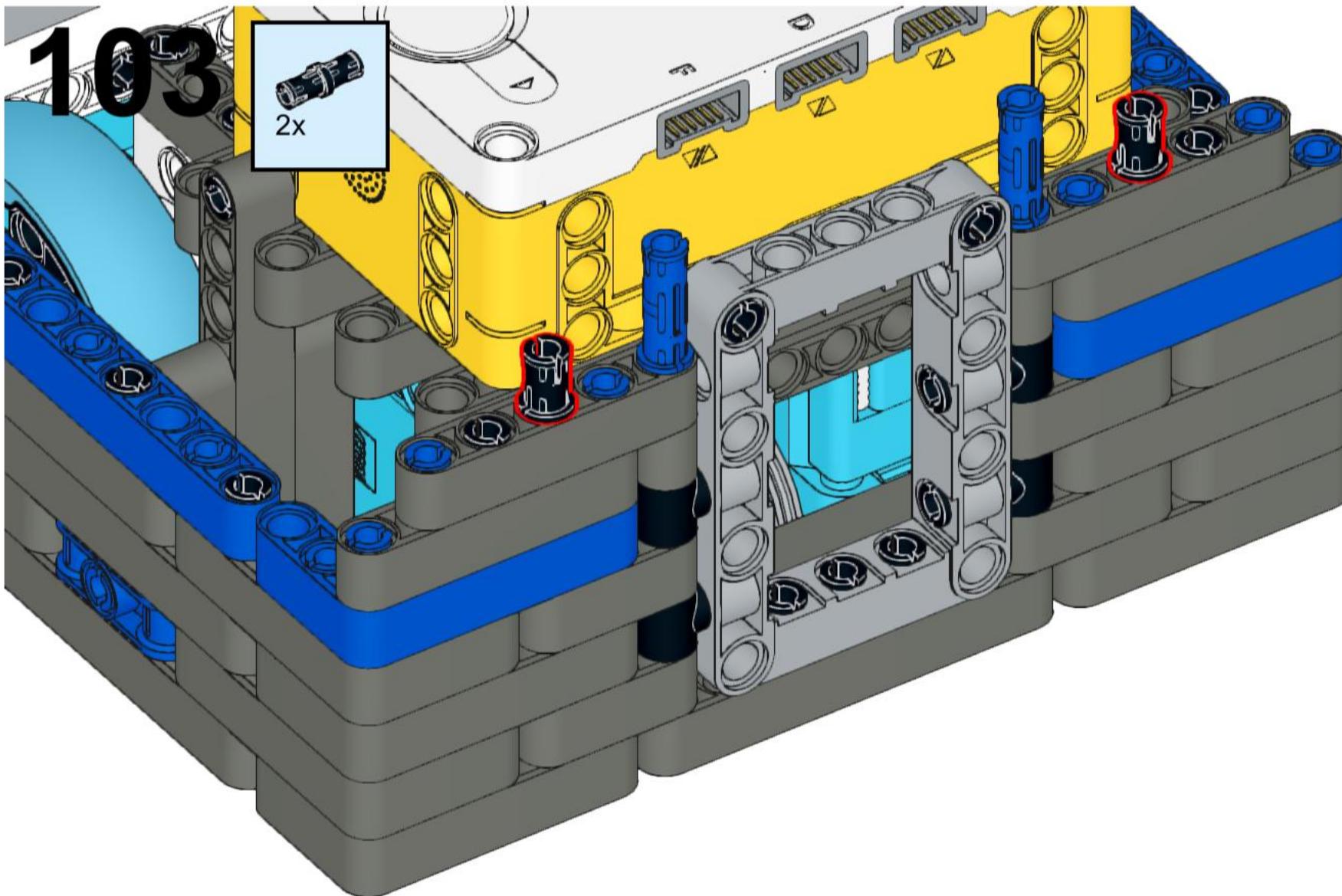




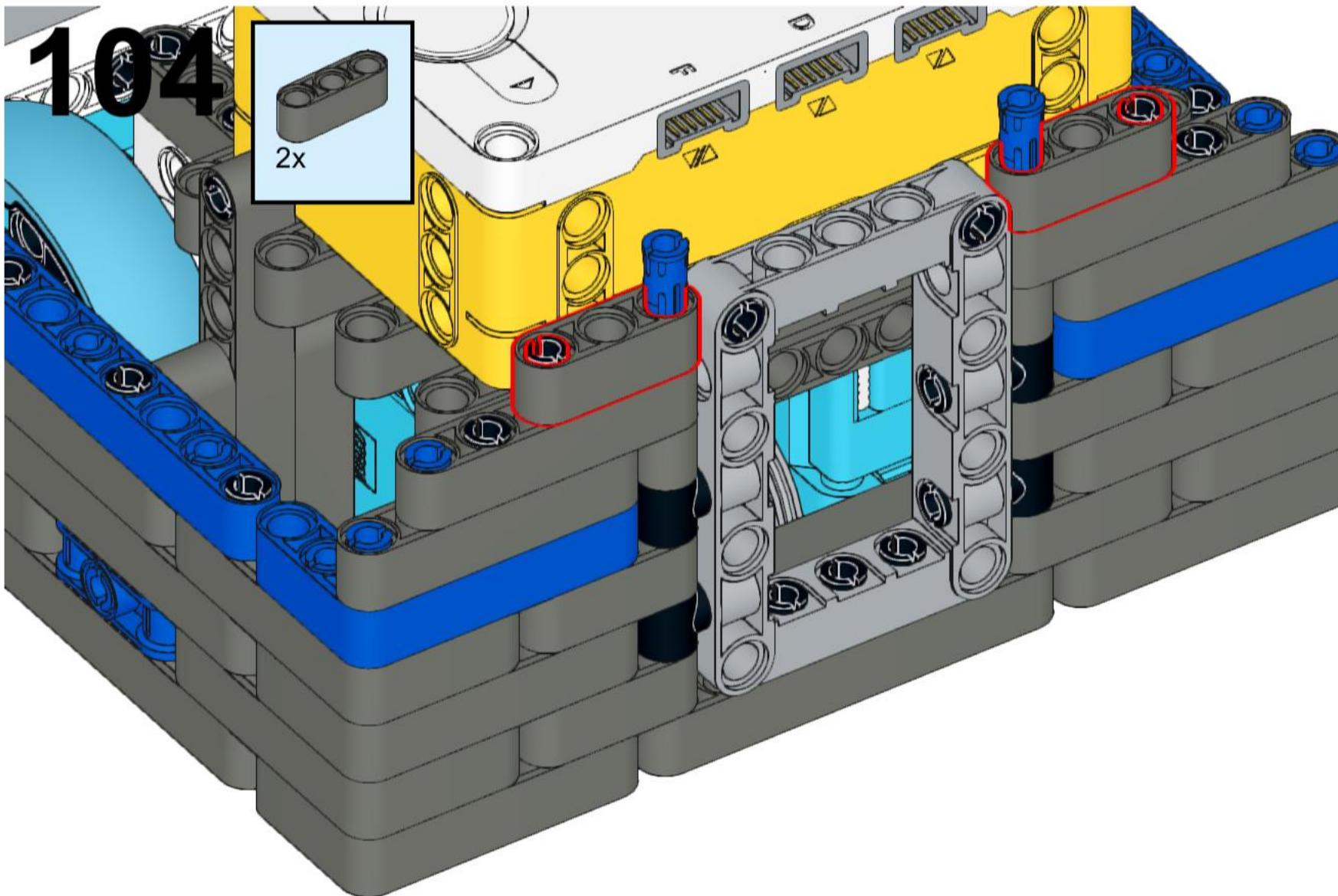
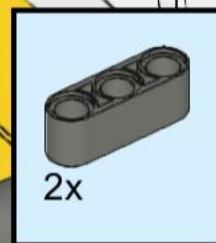
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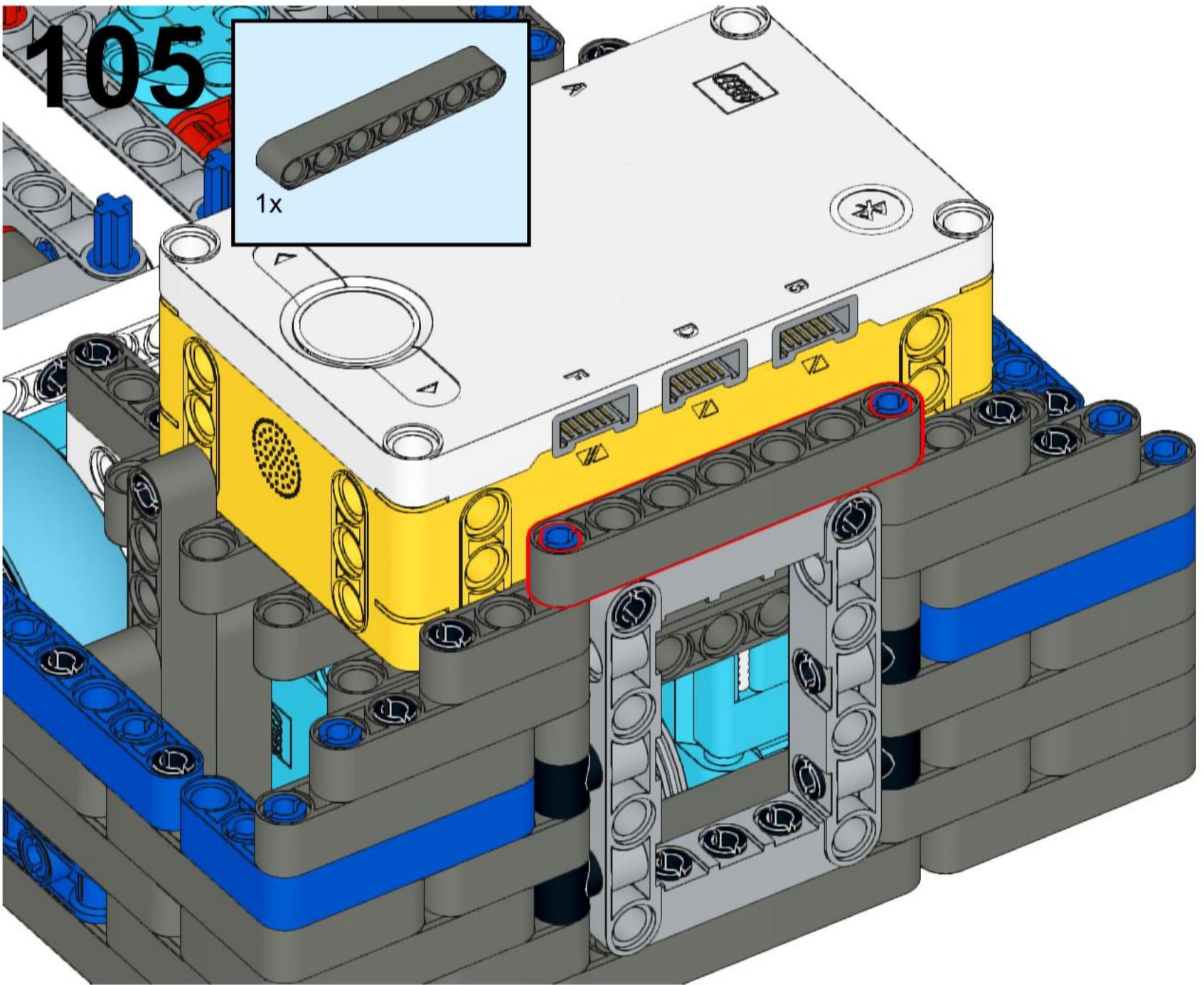


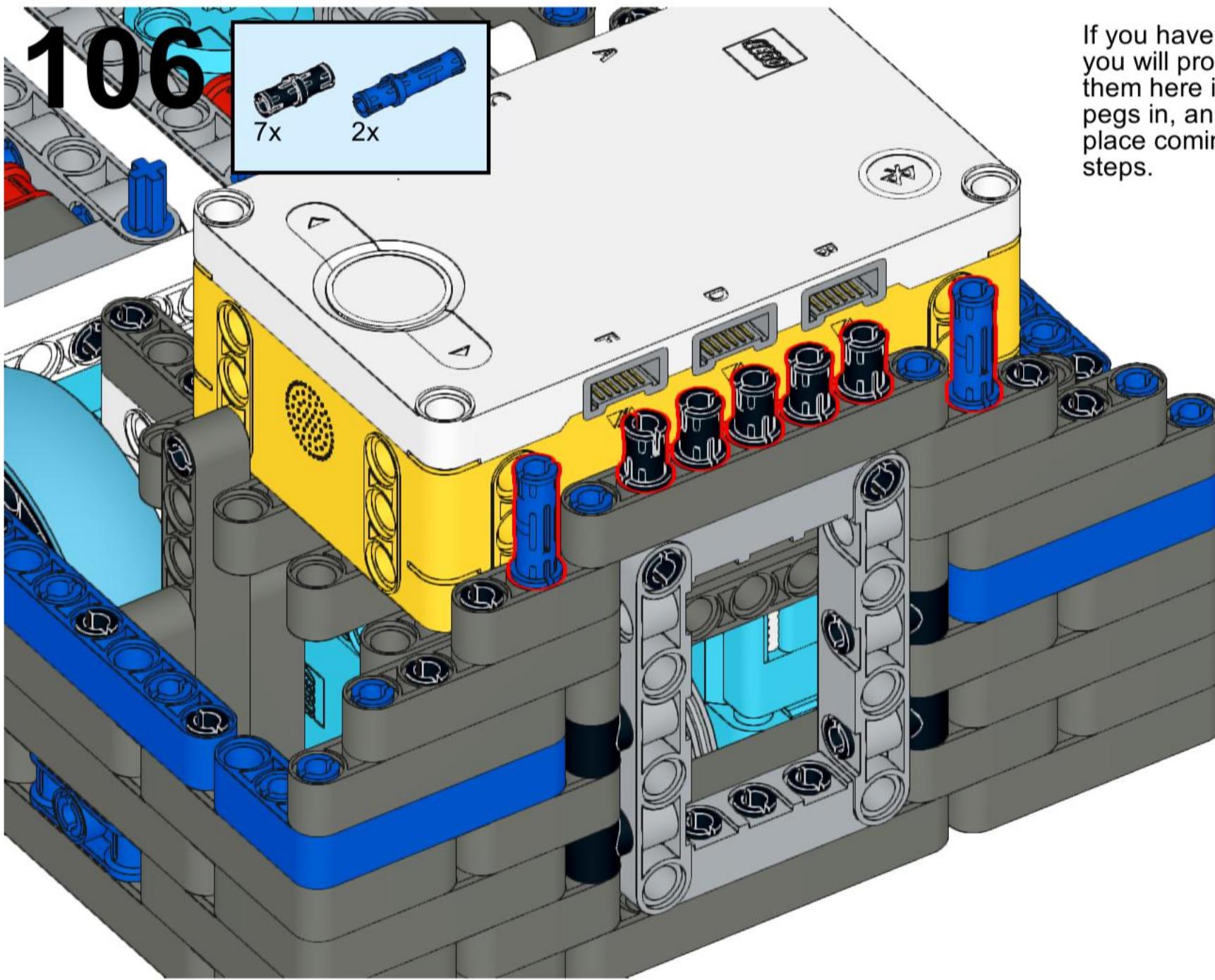
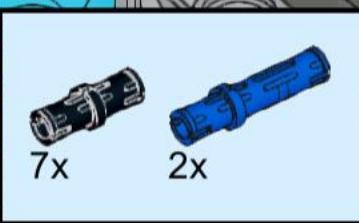
**103**



**104**

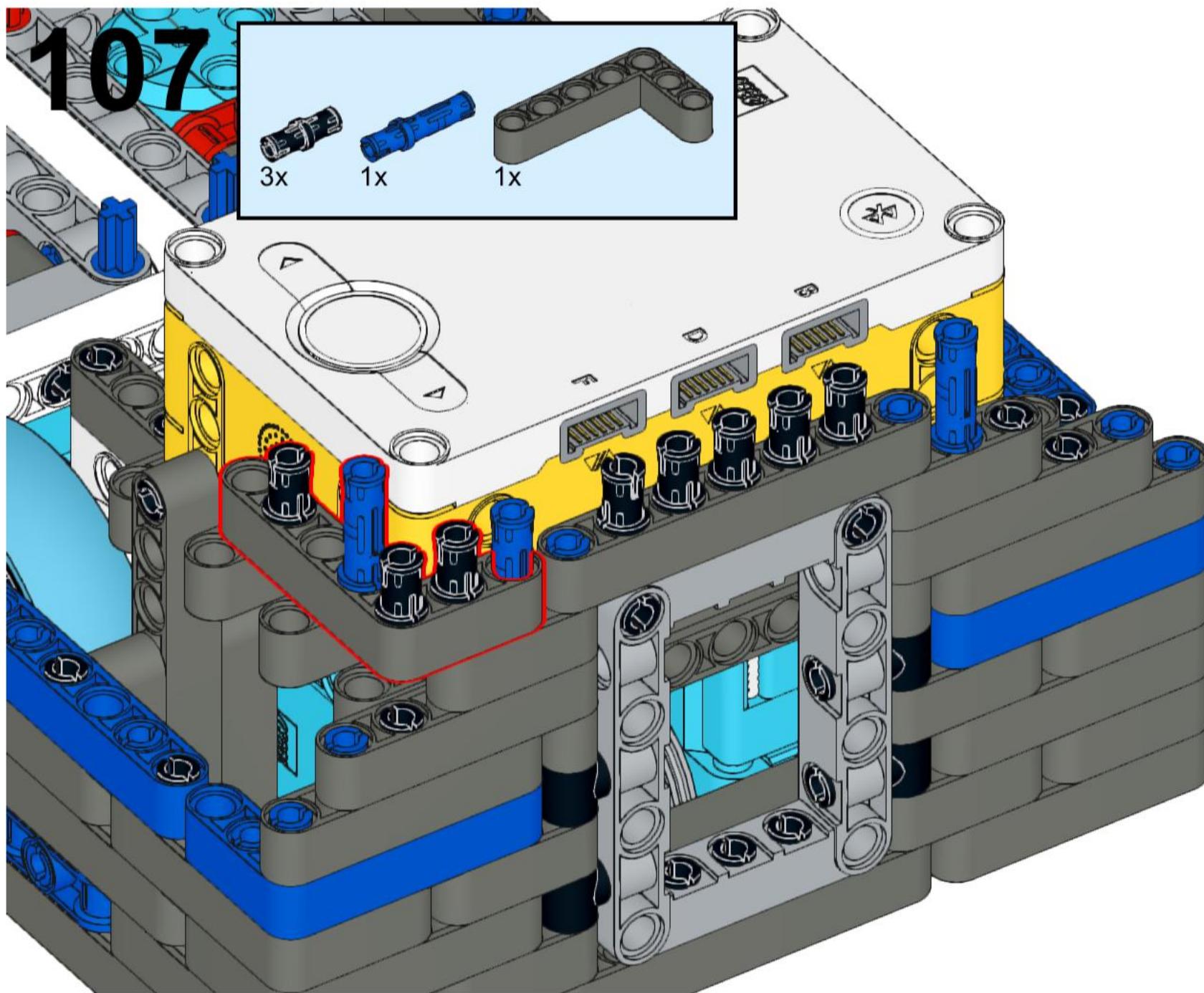
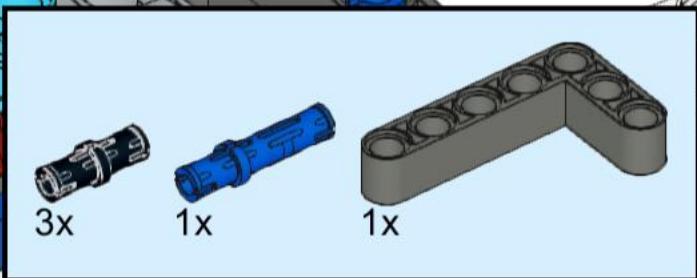




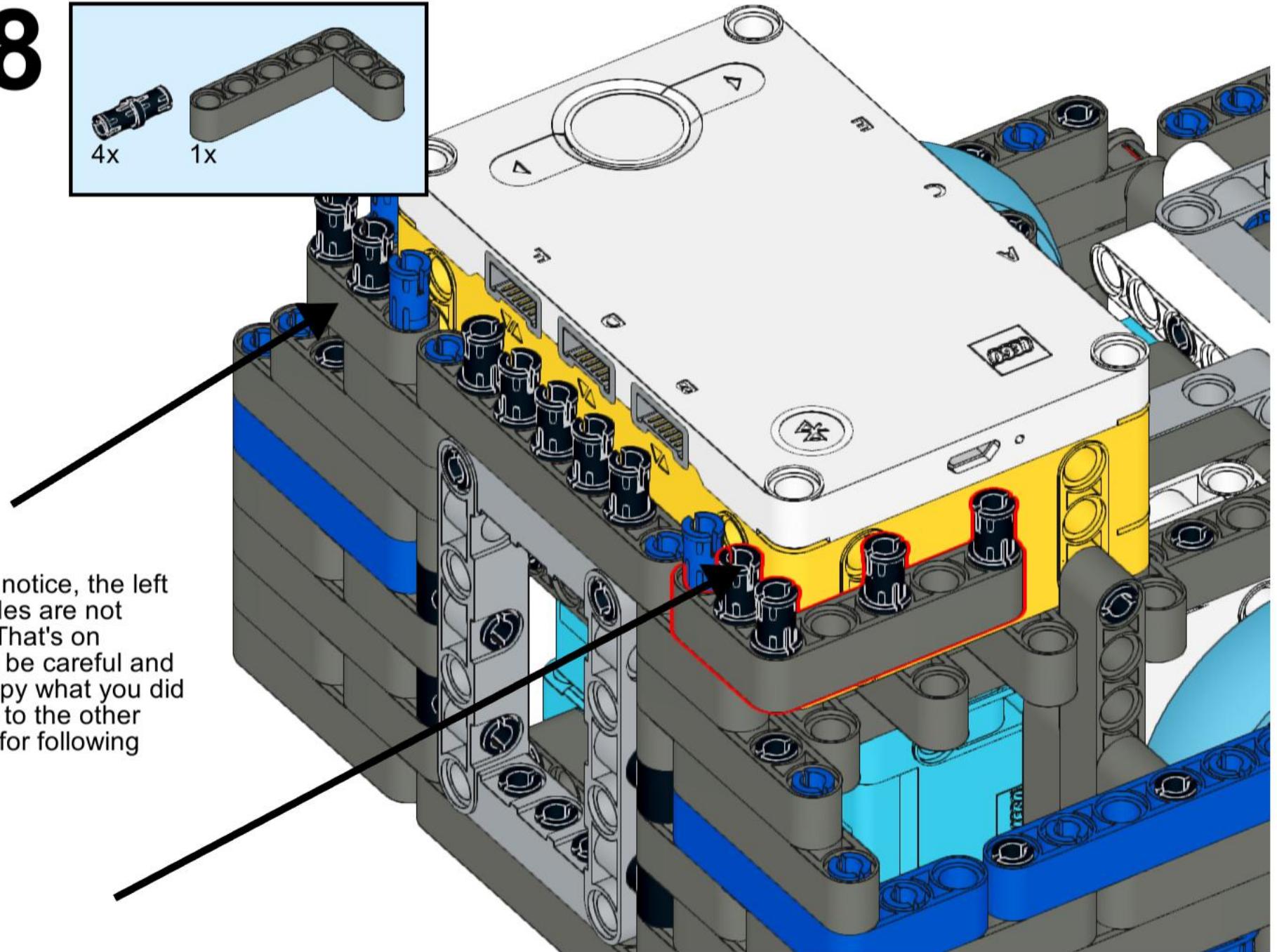
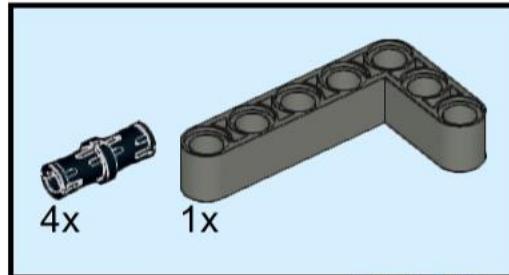
**106**

If you have plugged the wires in, you will probably want to unplug them here in order to get these pegs in, and to get the beam in place coming up in a couple of steps.

**107**

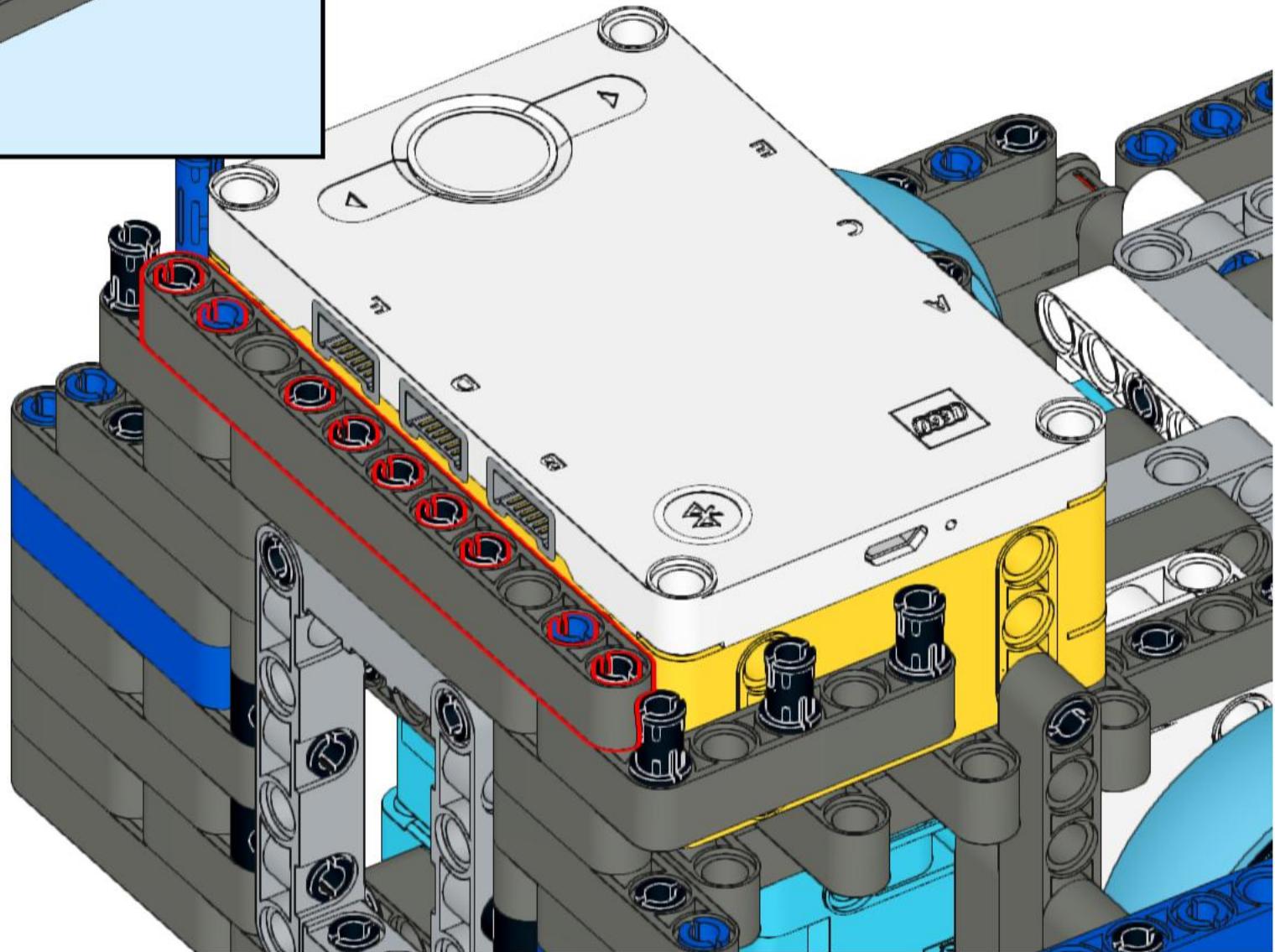
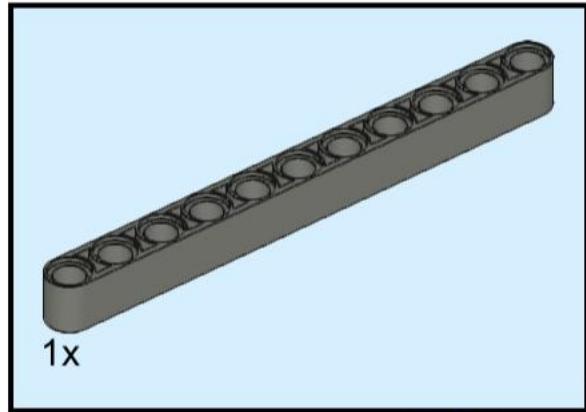


# 108

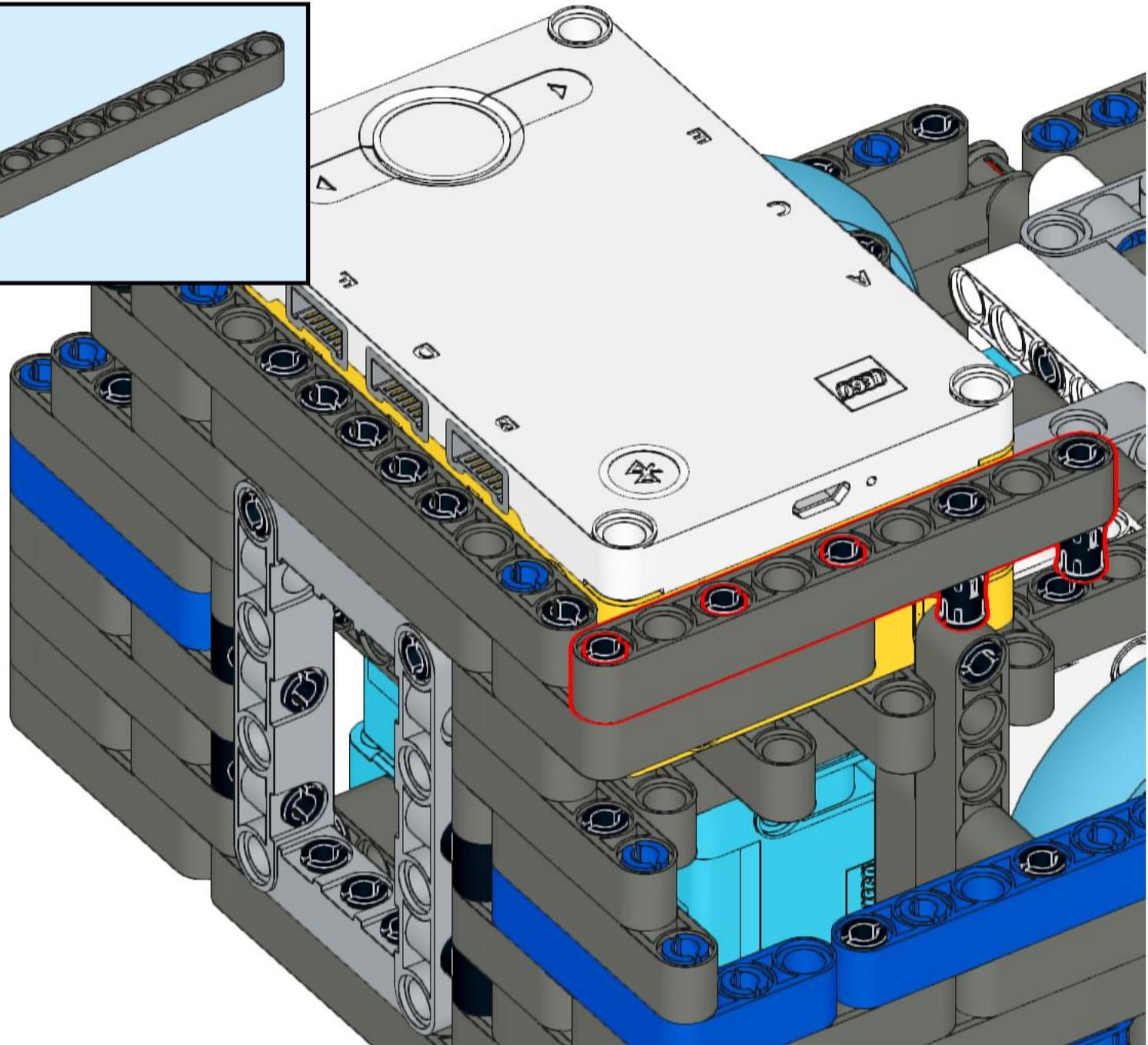
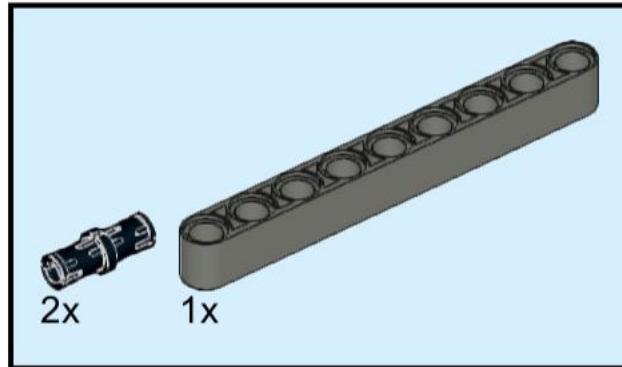


If you didn't notice, the left and right sides are not symmetric. That's on purpose, so be careful and don't just copy what you did on one side to the other side. Same for following steps.

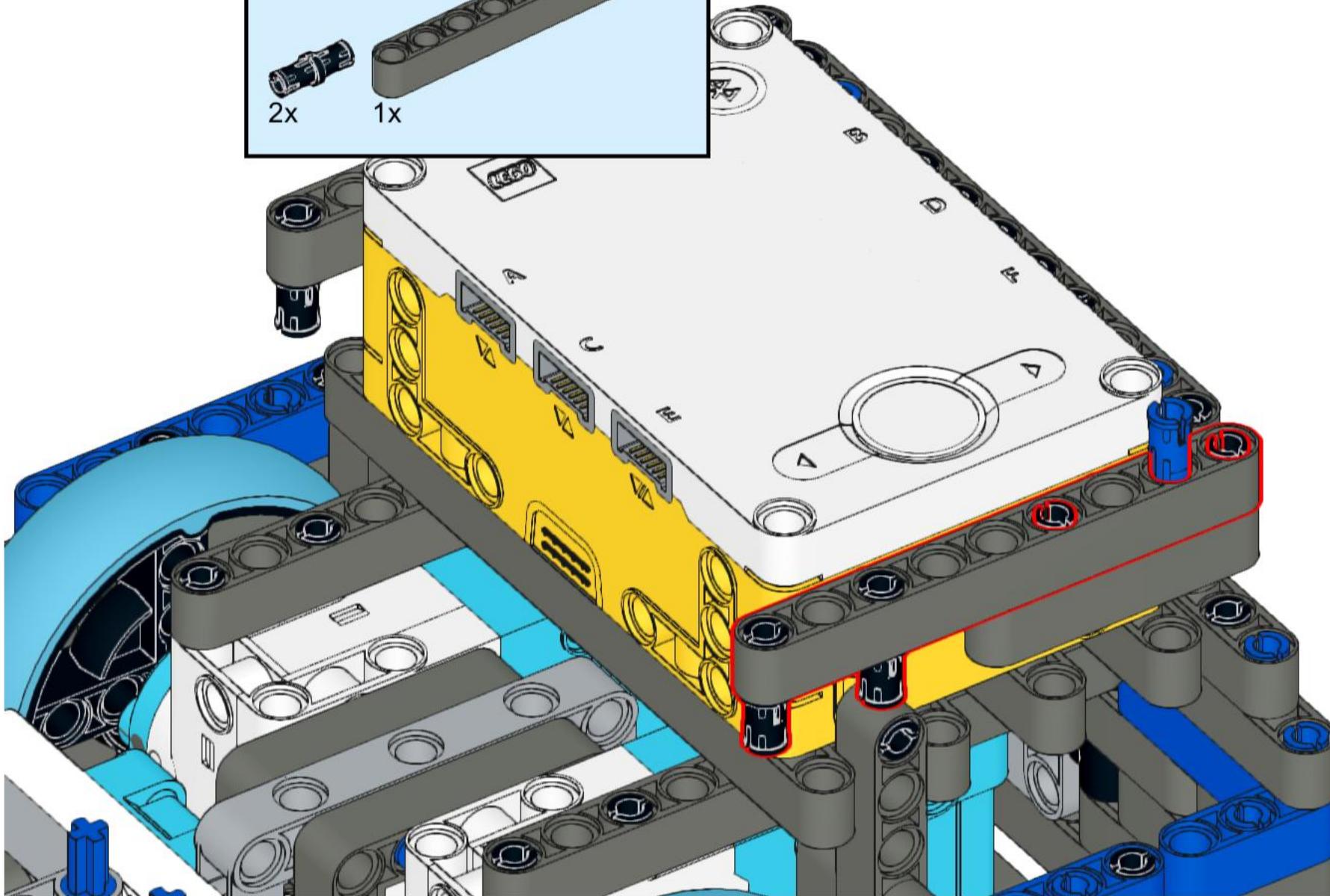
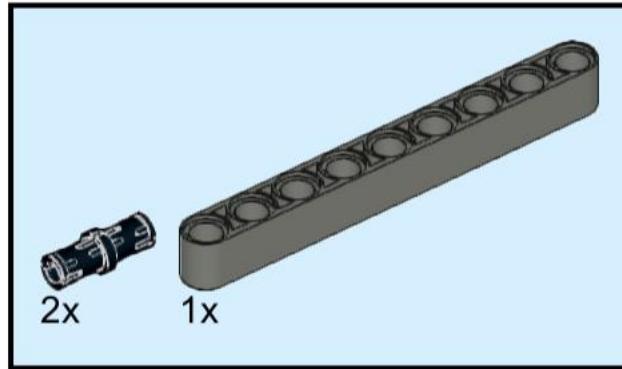
# 109



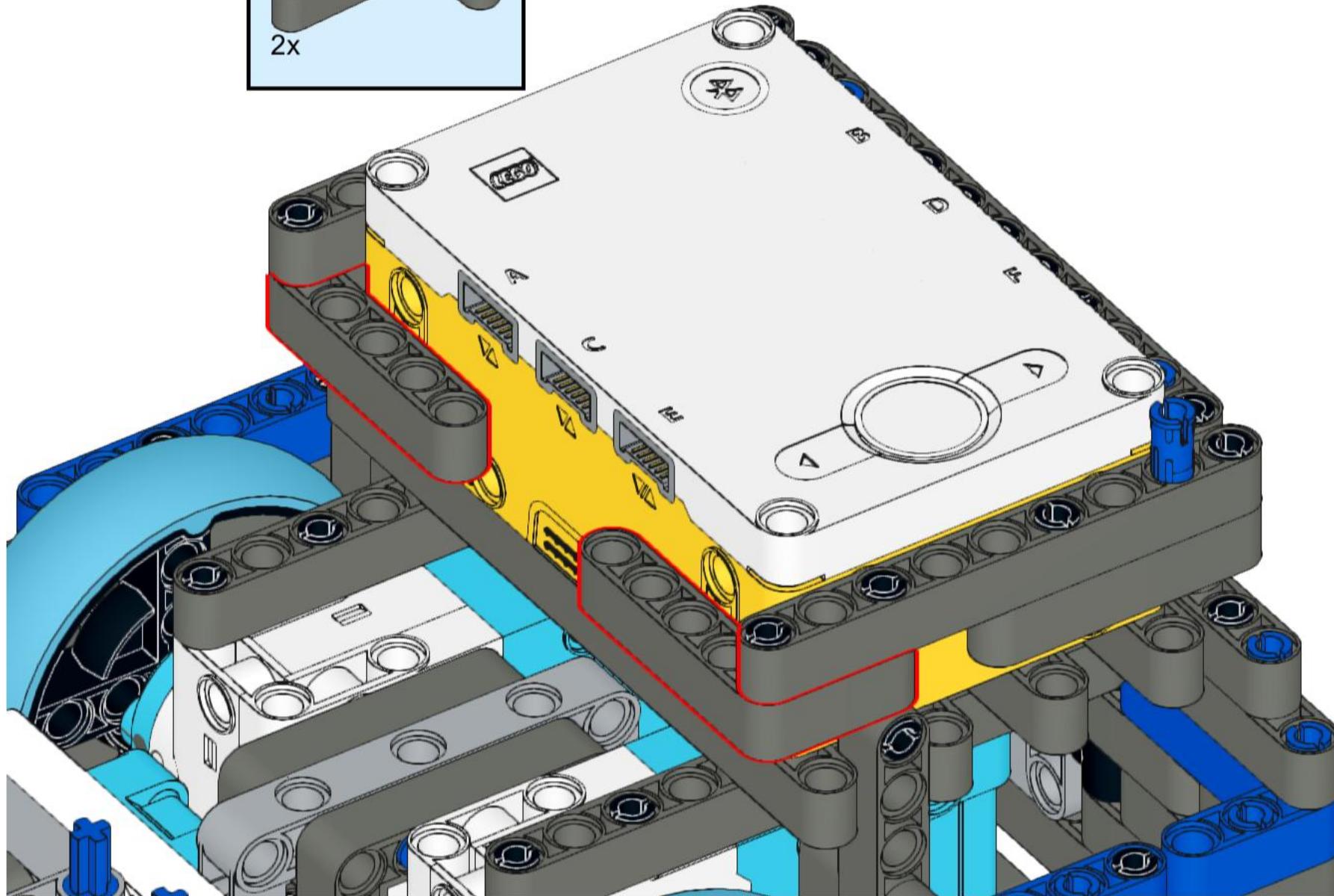
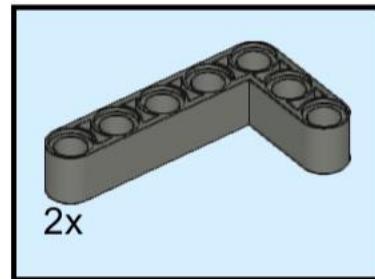
**110**



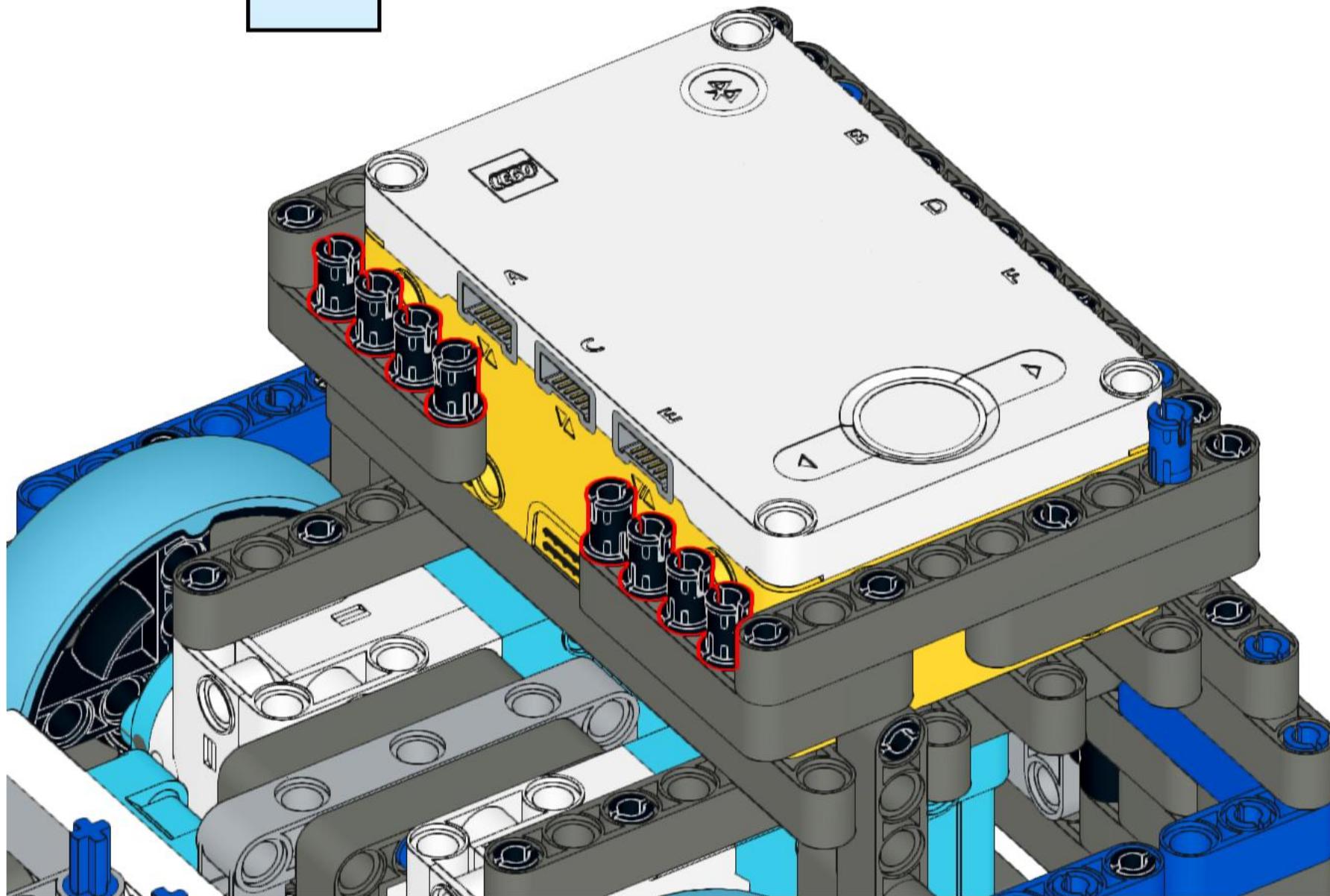
**111**



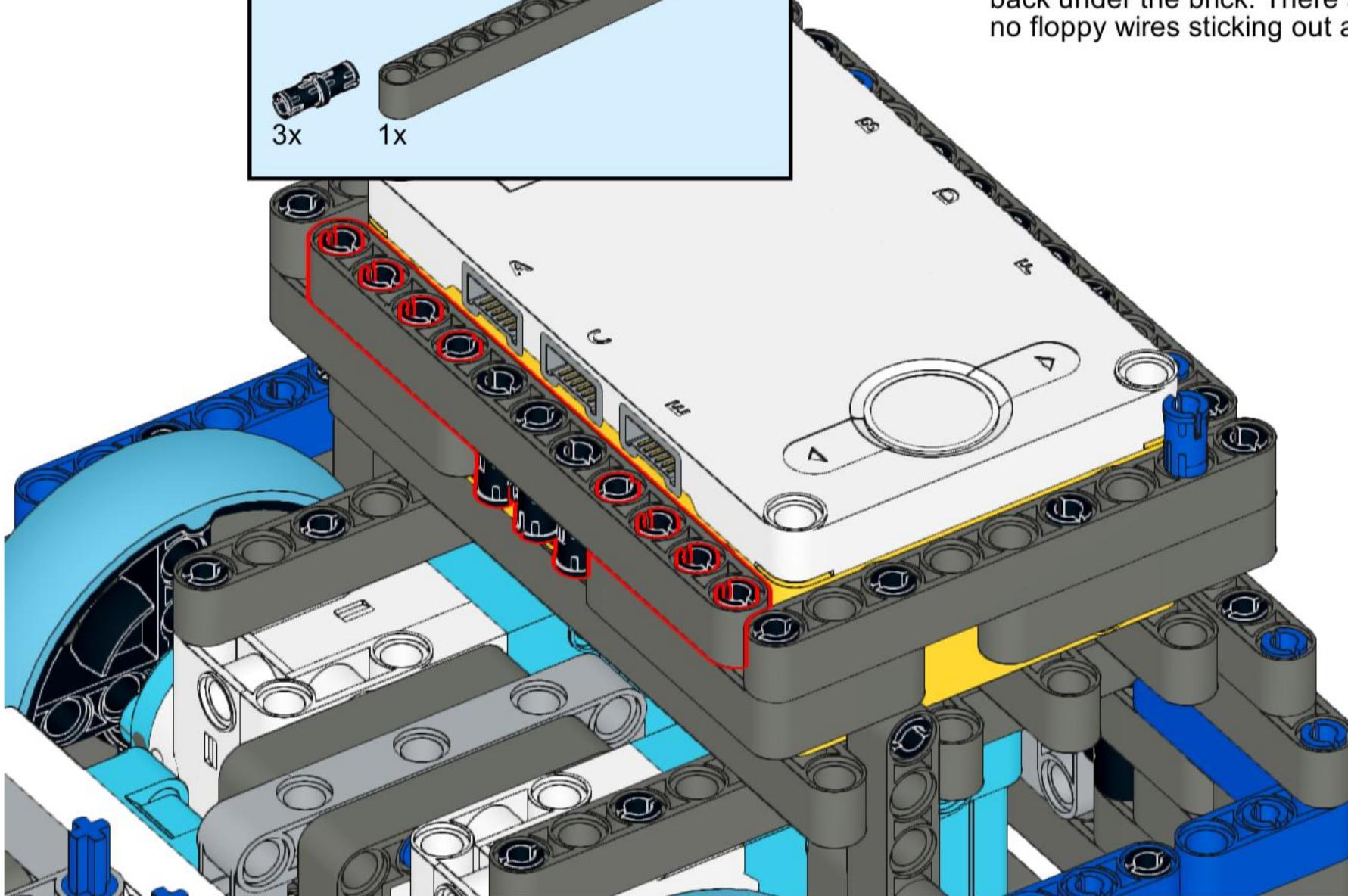
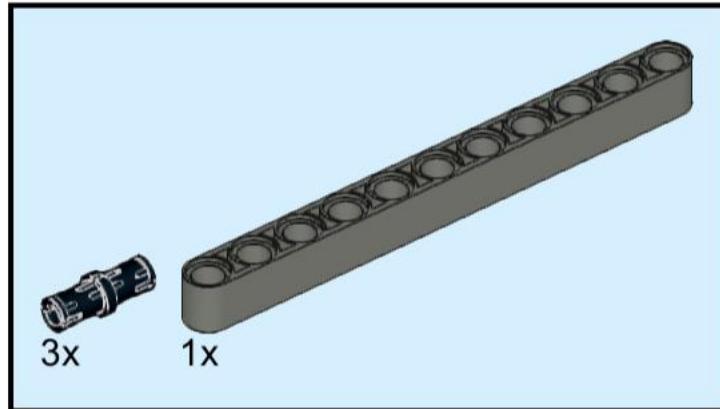
**112**



**113**

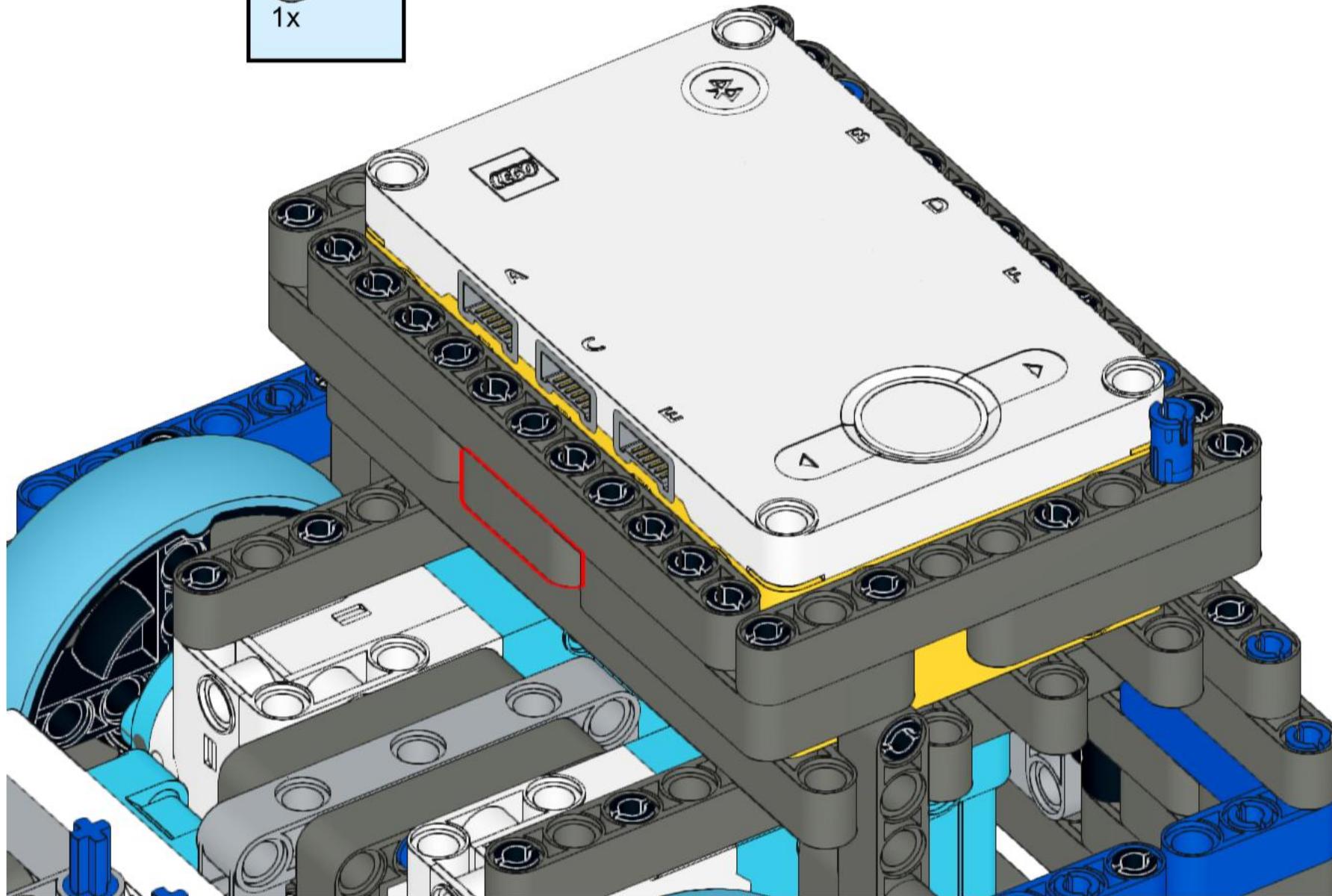
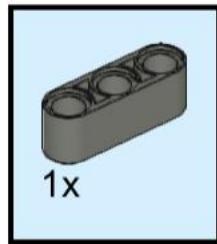


# 114

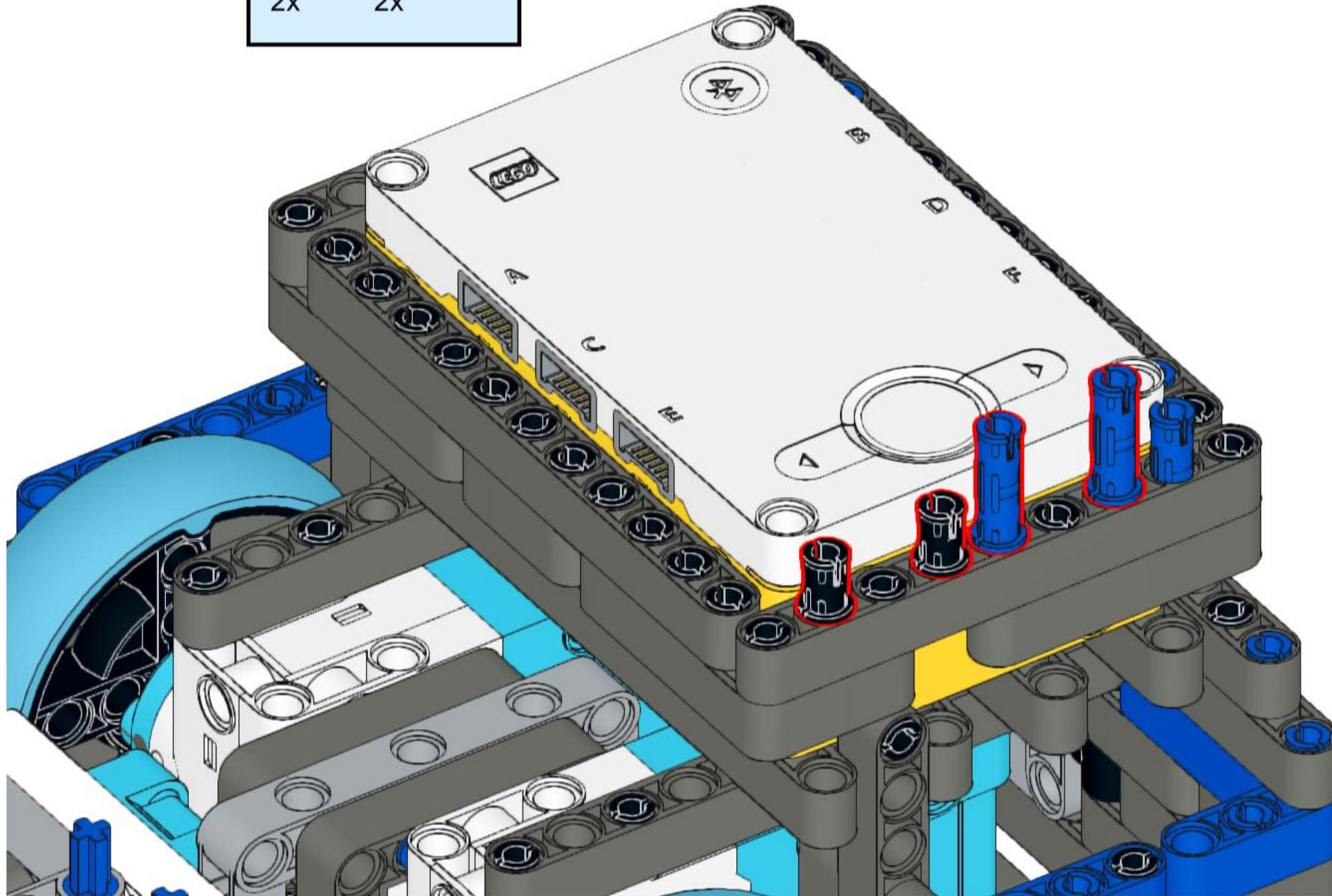
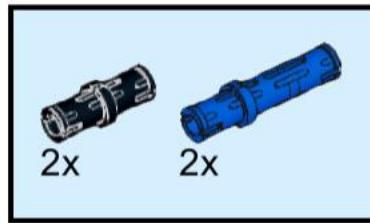


Again, you may need to unplug the wires temporarily to get this beam in place. Once you have it done, carefully get all of the wires tucked back under the brick. There should be no floppy wires sticking out anywhere.

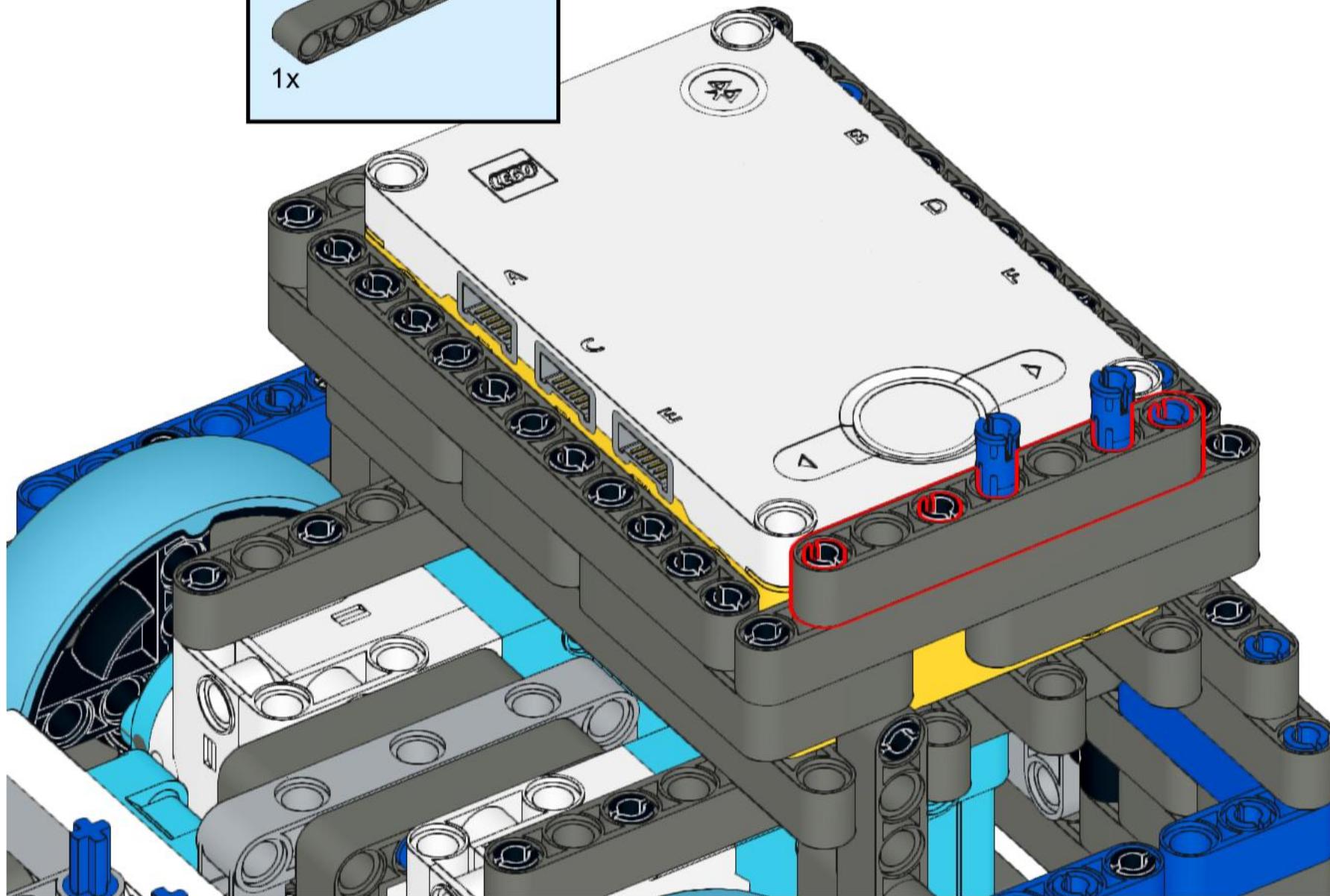
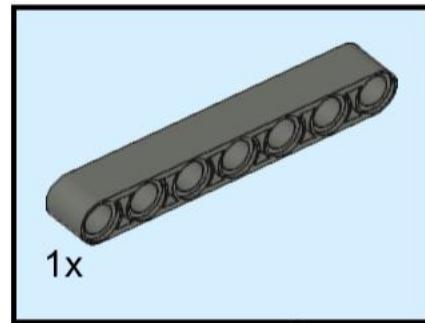
**115**



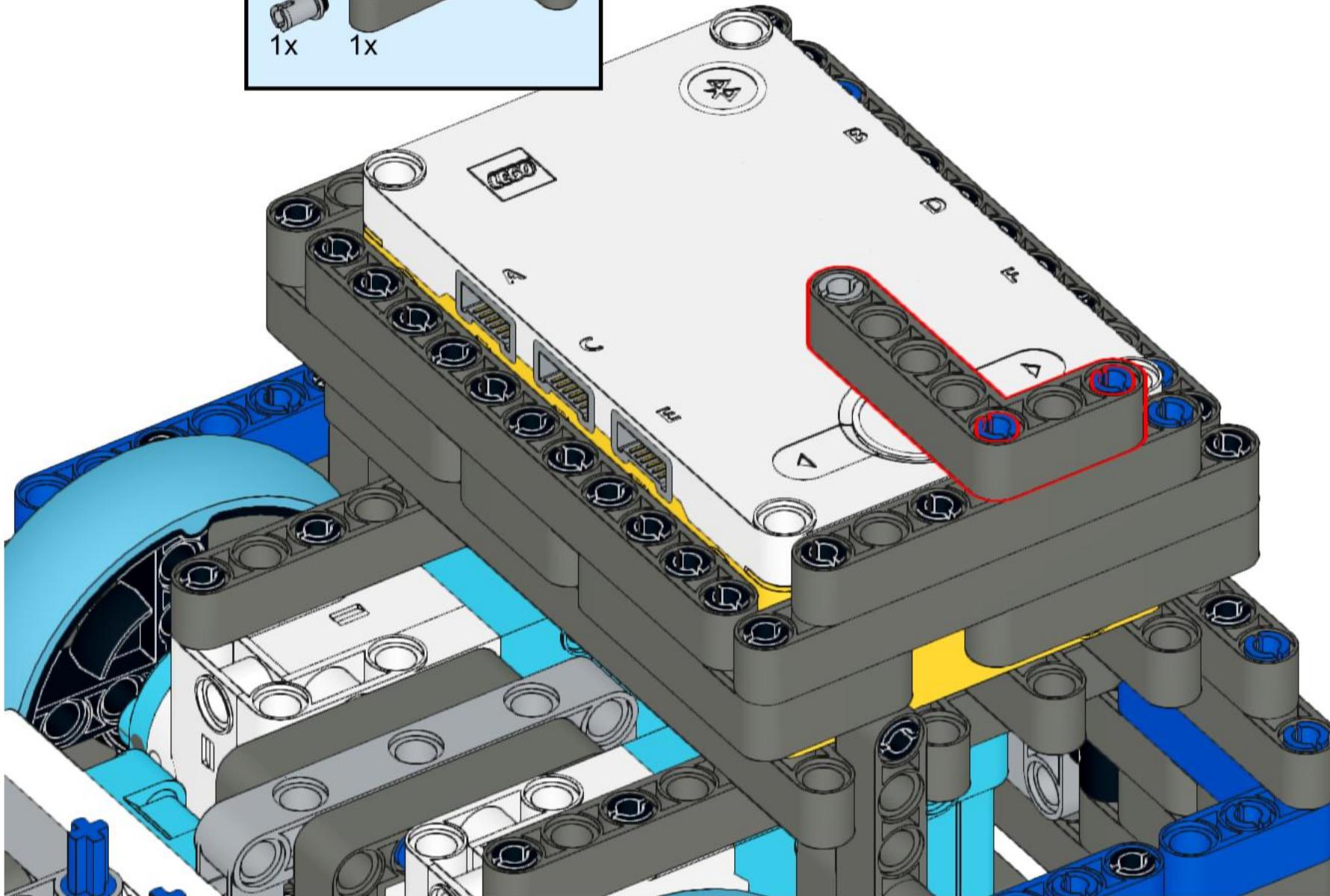
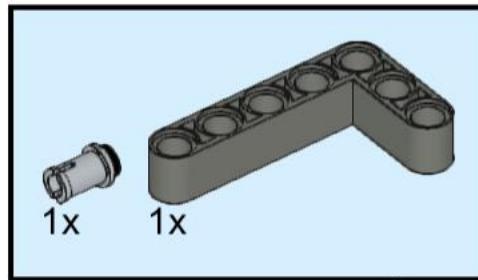
# 116



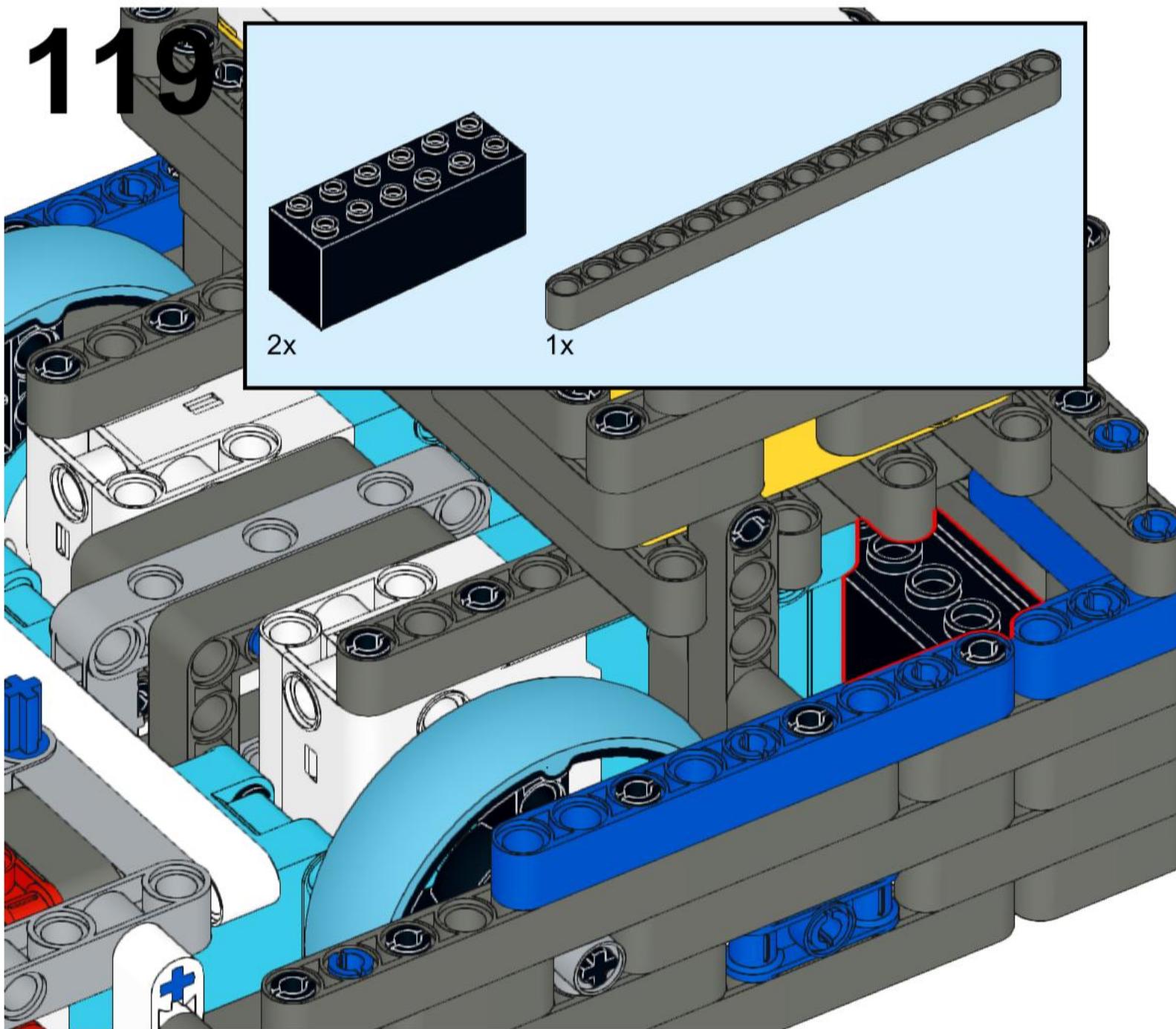
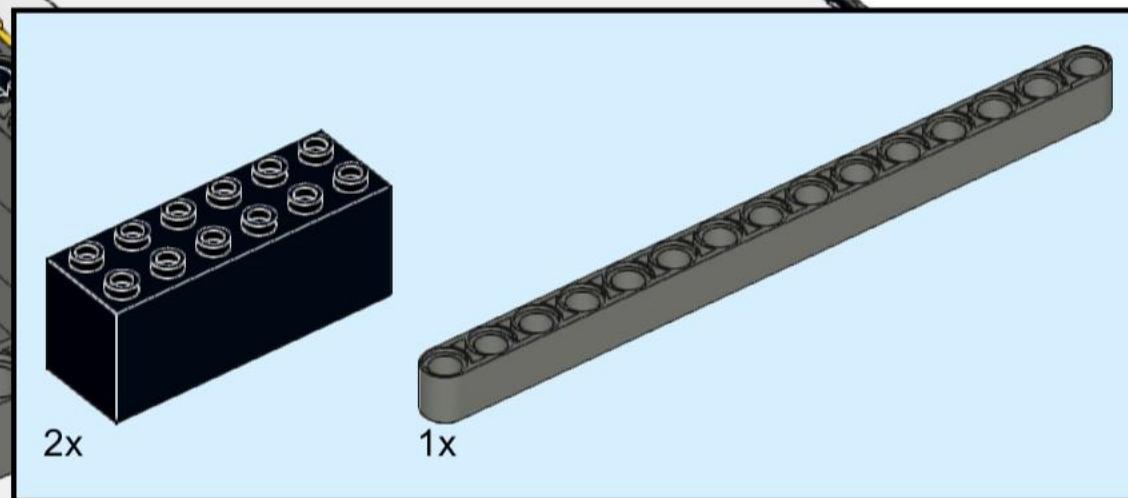
**117**



**118**



**119**





118x  
2780  
Black



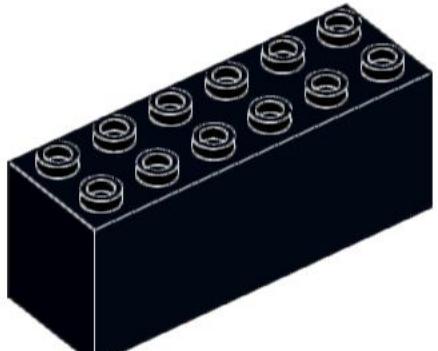
6x  
15100  
Black



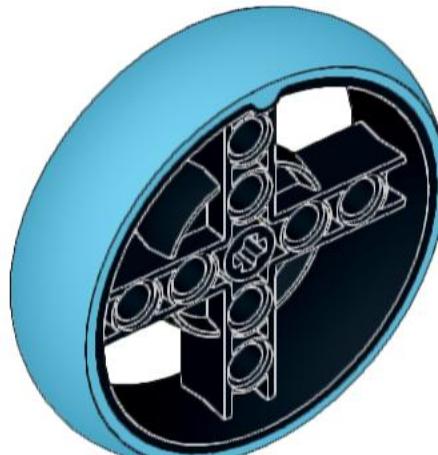
3x  
3705  
Black



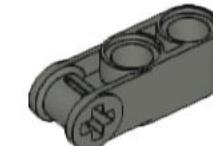
1x  
37308c01  
Black



2x  
73090b  
Black



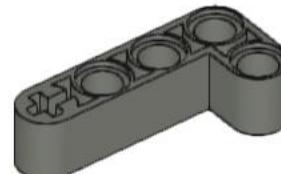
2x  
39367pb01  
Black



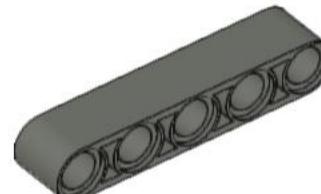
2x  
42003  
Dark Bluish Gray



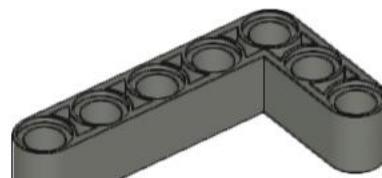
13x  
32523  
Dark Bluish Gray



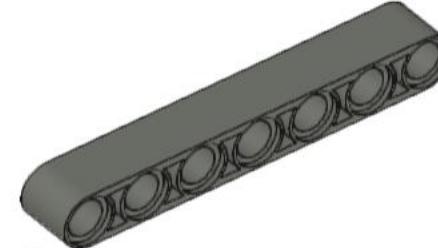
2x  
32140  
Dark Bluish Gray



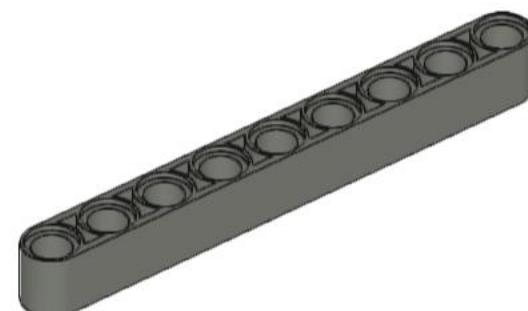
10x  
32316  
Dark Bluish Gray



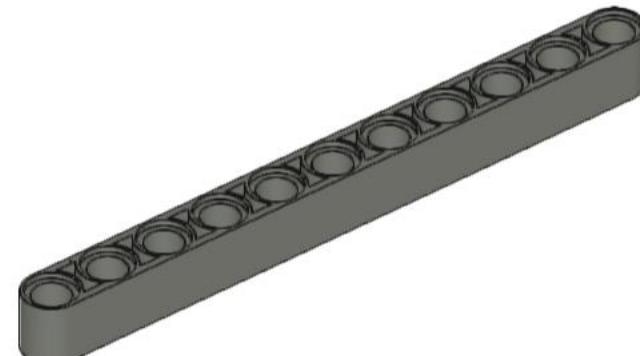
21x  
32526  
Dark Bluish Gray



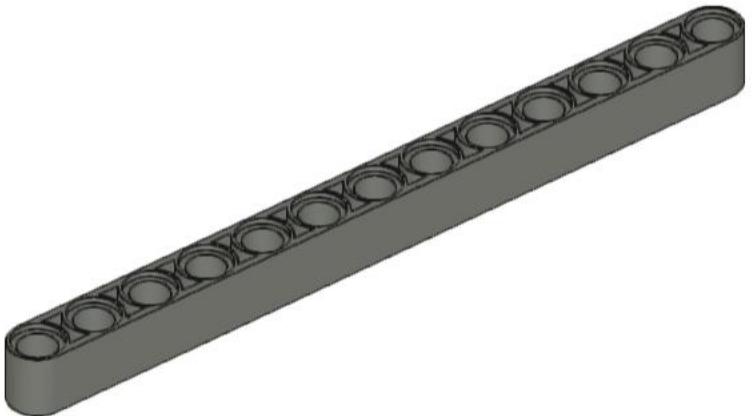
9x  
32524  
Dark Bluish Gray



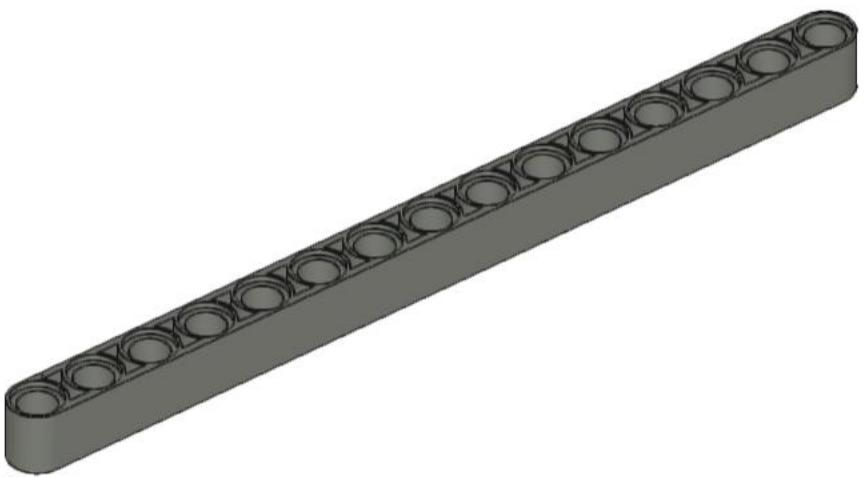
2x  
40490  
Dark Bluish Gray



8x  
32525  
Dark Bluish Gray



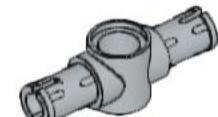
6x  
41239  
Dark Bluish Gray



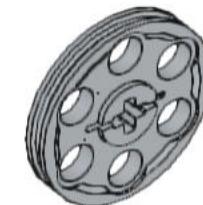
3x  
32278  
Dark Bluish Gray



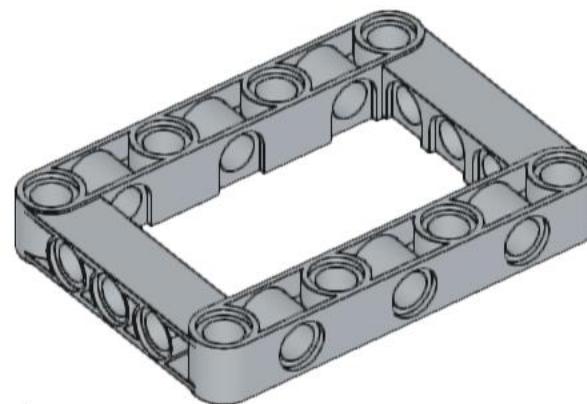
1x  
4274  
Light Bluish Gray



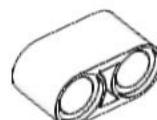
2x  
87082  
Light Bluish Gray



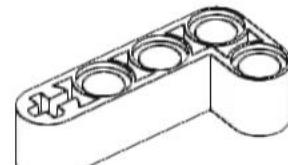
2x  
4185  
Light Bluish Gray



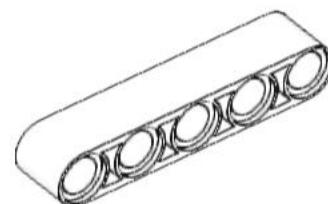
4x  
64179  
Light Bluish Gray



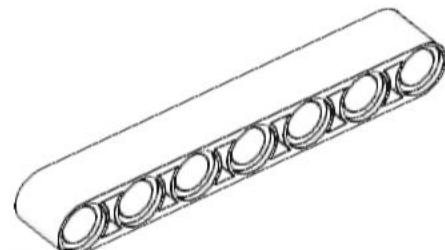
2x  
43857  
White



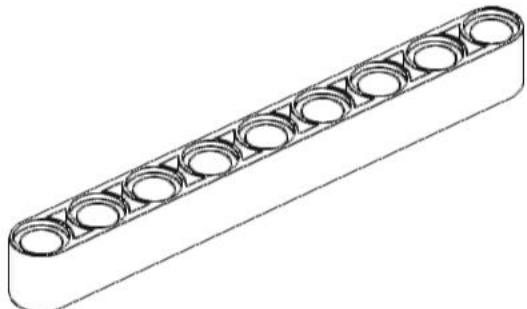
4x  
32140  
White



2x  
32316  
White



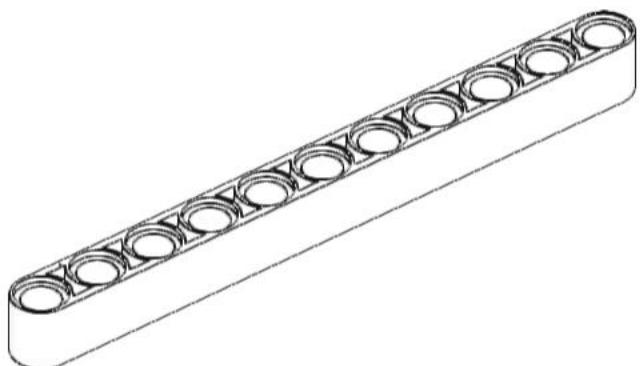
1x  
32524  
White



1x  
40490  
White



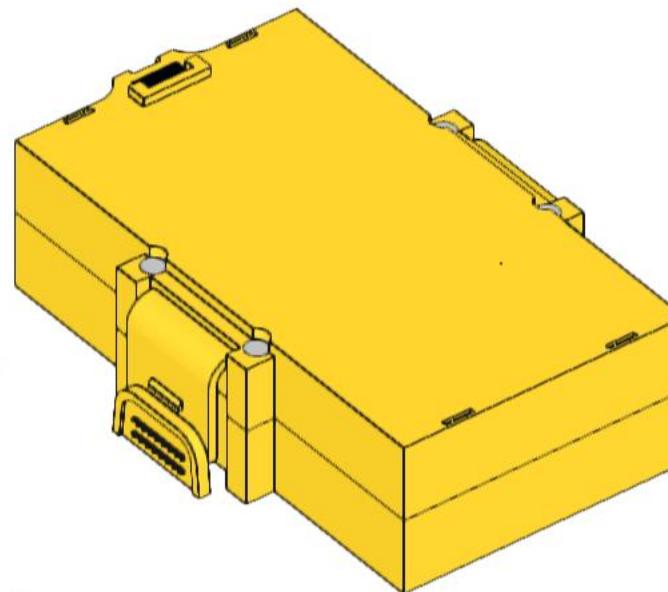
4x  
32184  
Red



1x  
32525  
White



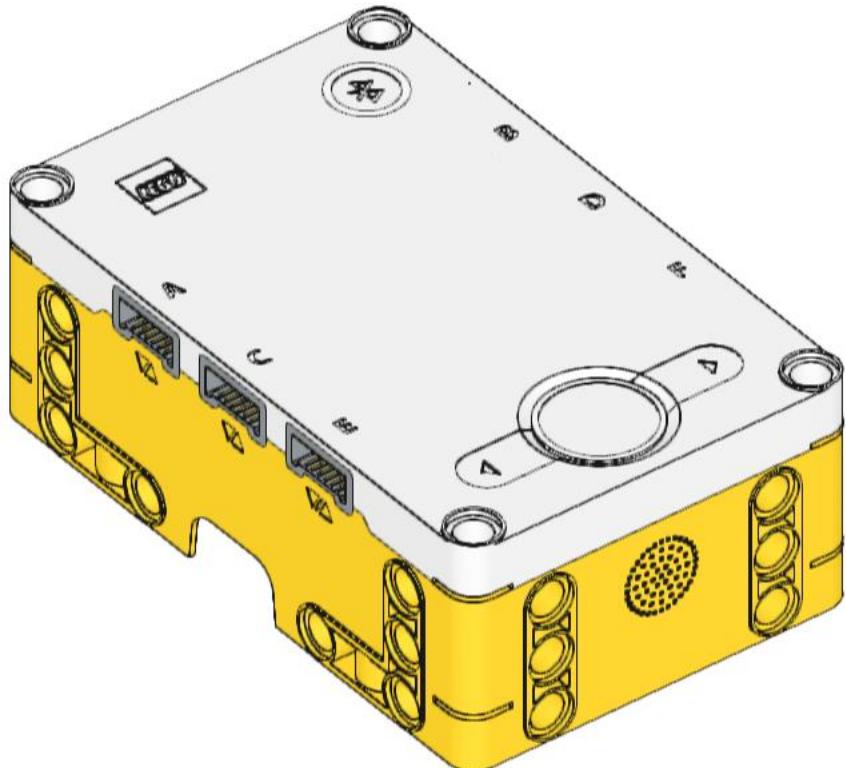
2x  
4265c  
Yellow



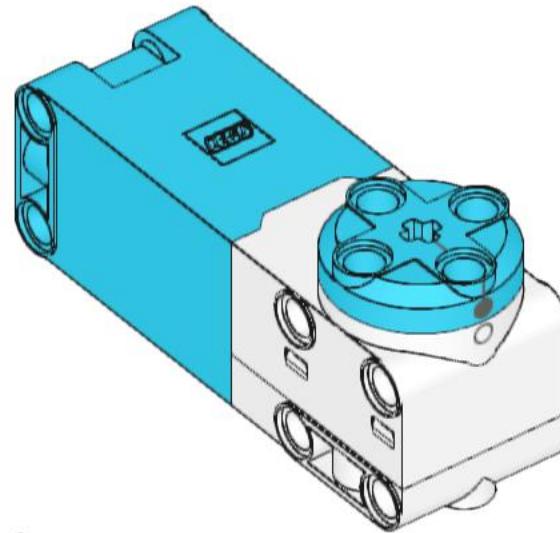
1x  
55422c01  
Yellow



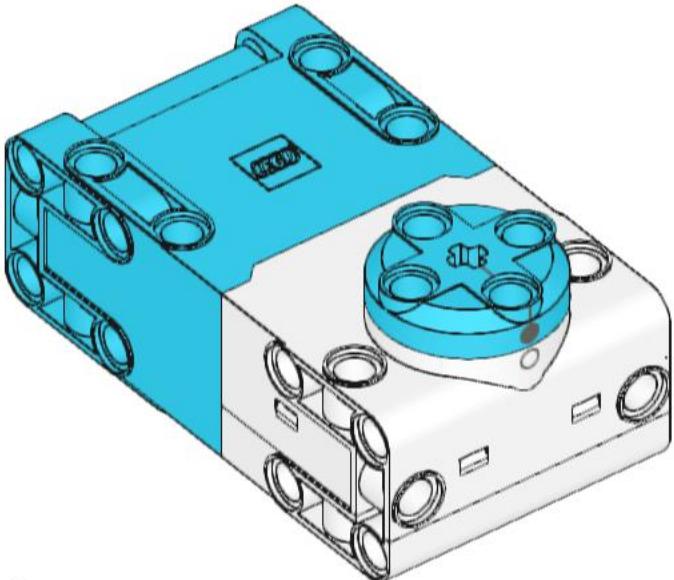
1x  
3713  
Red



1x  
bb1142c01  
Yellow



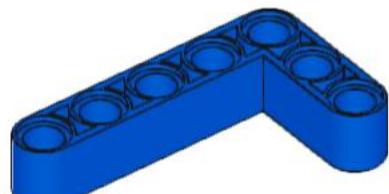
2x  
54696c01  
Medium Azure



2x  
54675c01  
Medium Azure



2x  
32184  
Blue



2x  
32526  
Blue



14x  
43093  
Blue



86x  
6558  
Blue



2x  
40490  
Blue