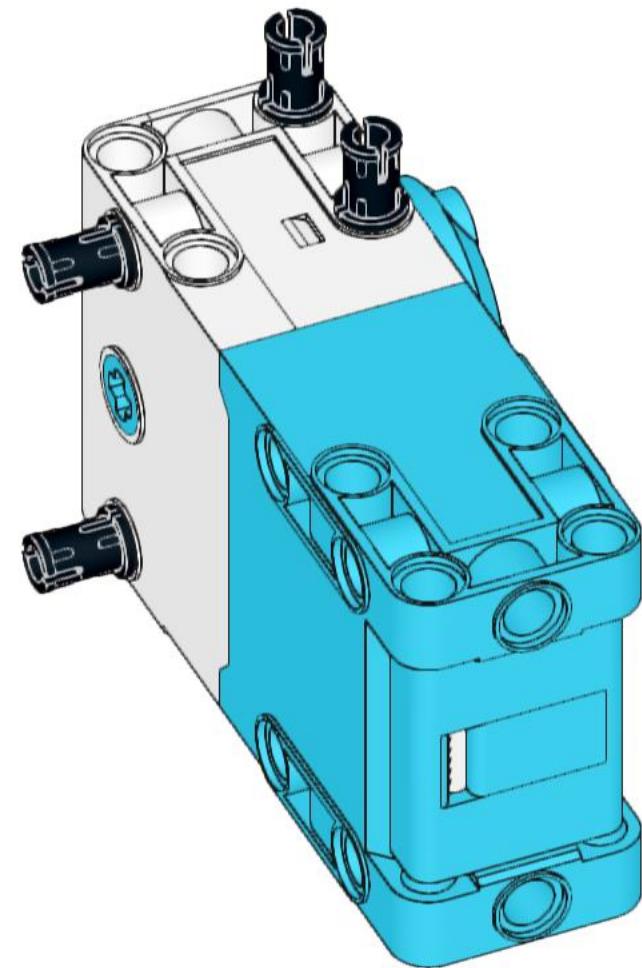
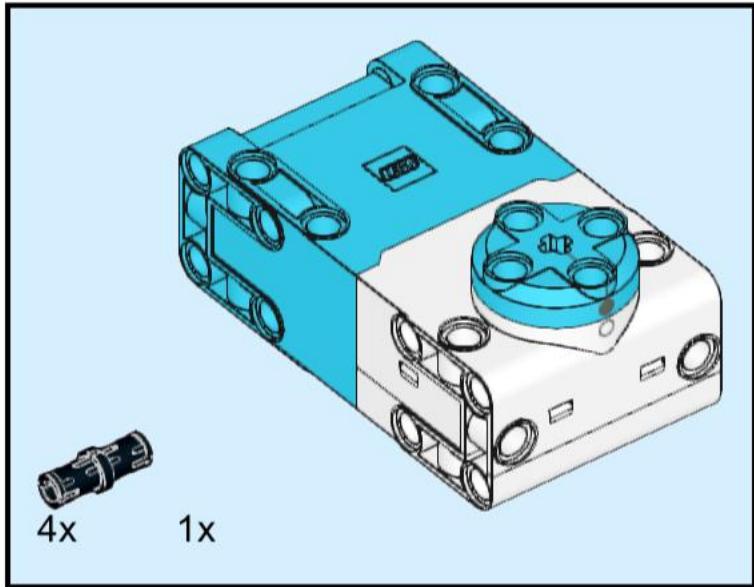
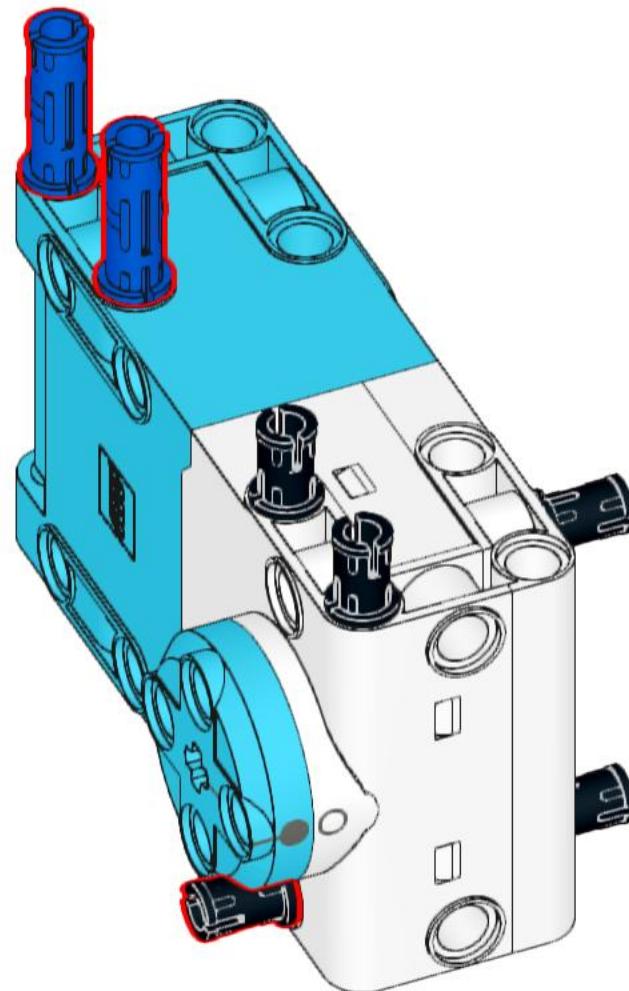
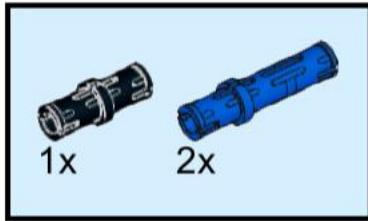


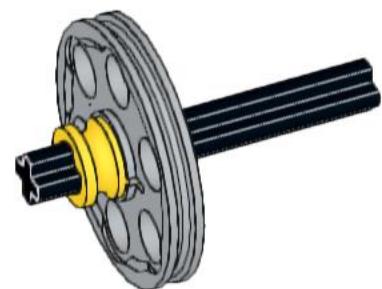
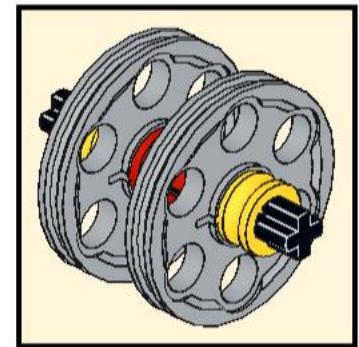
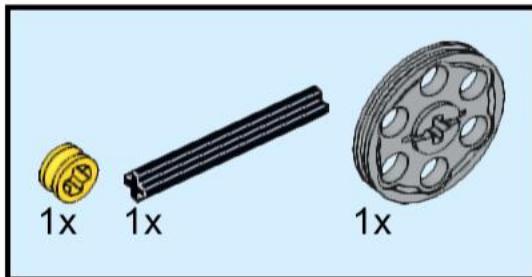
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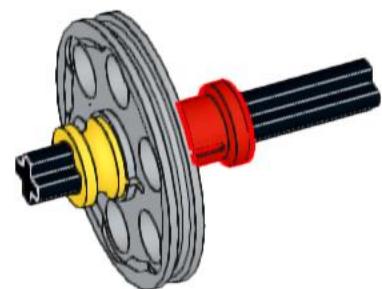
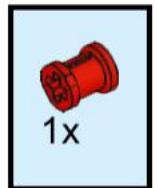
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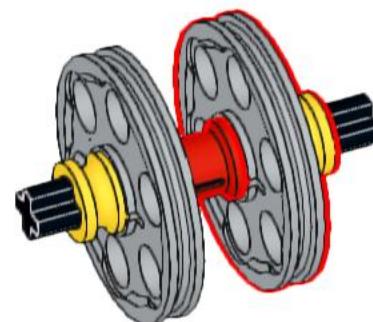
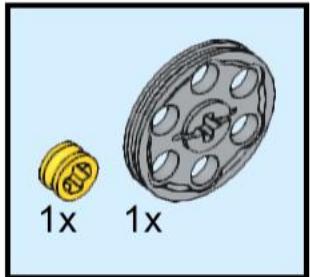
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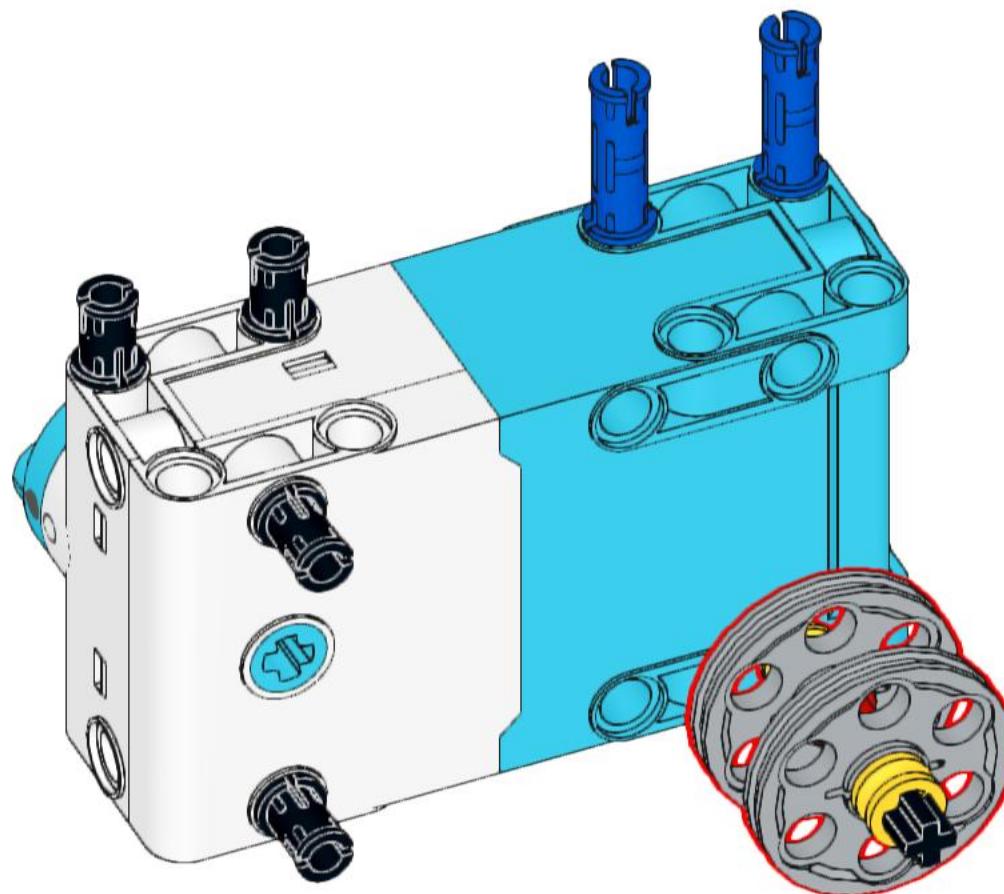
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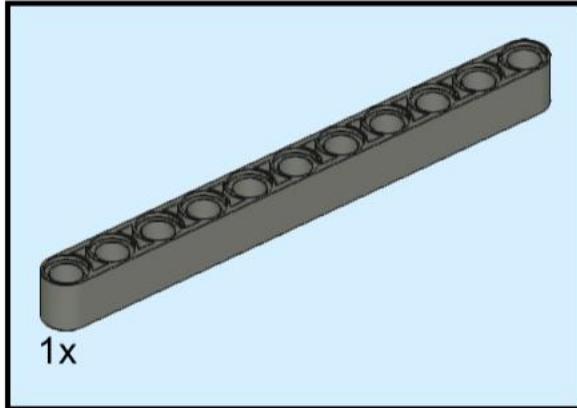
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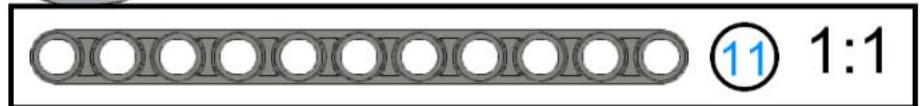
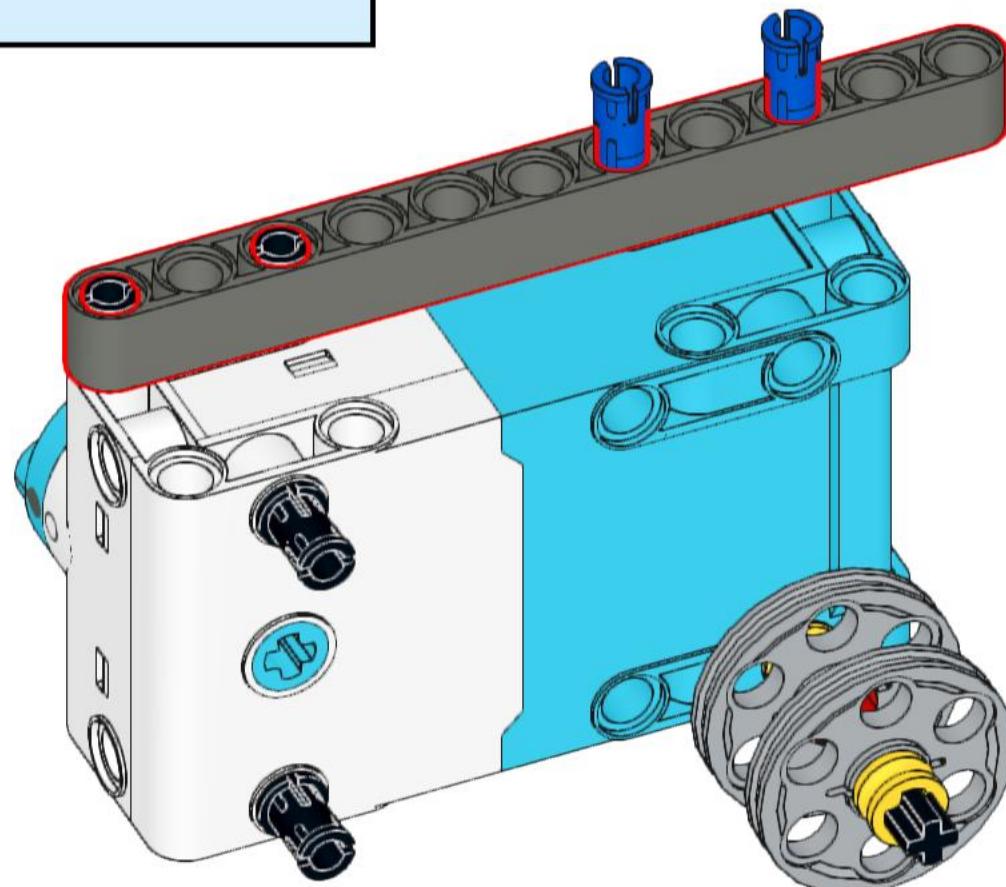
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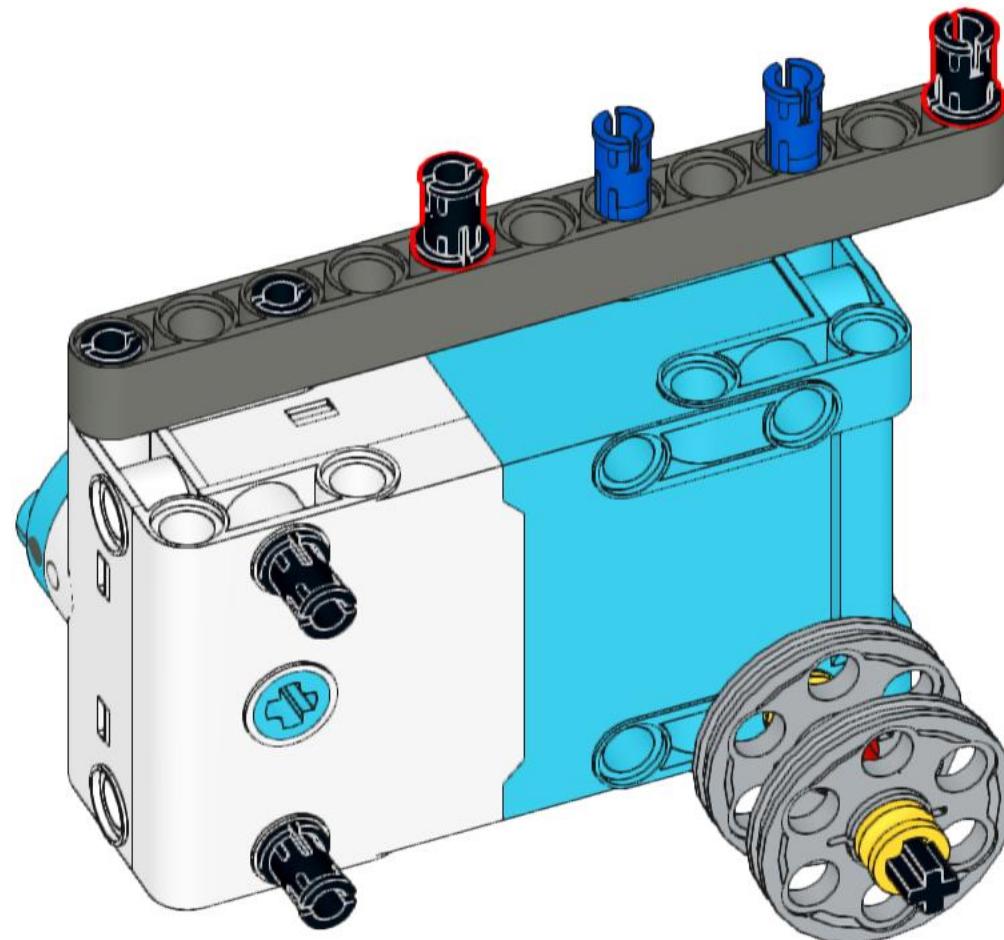
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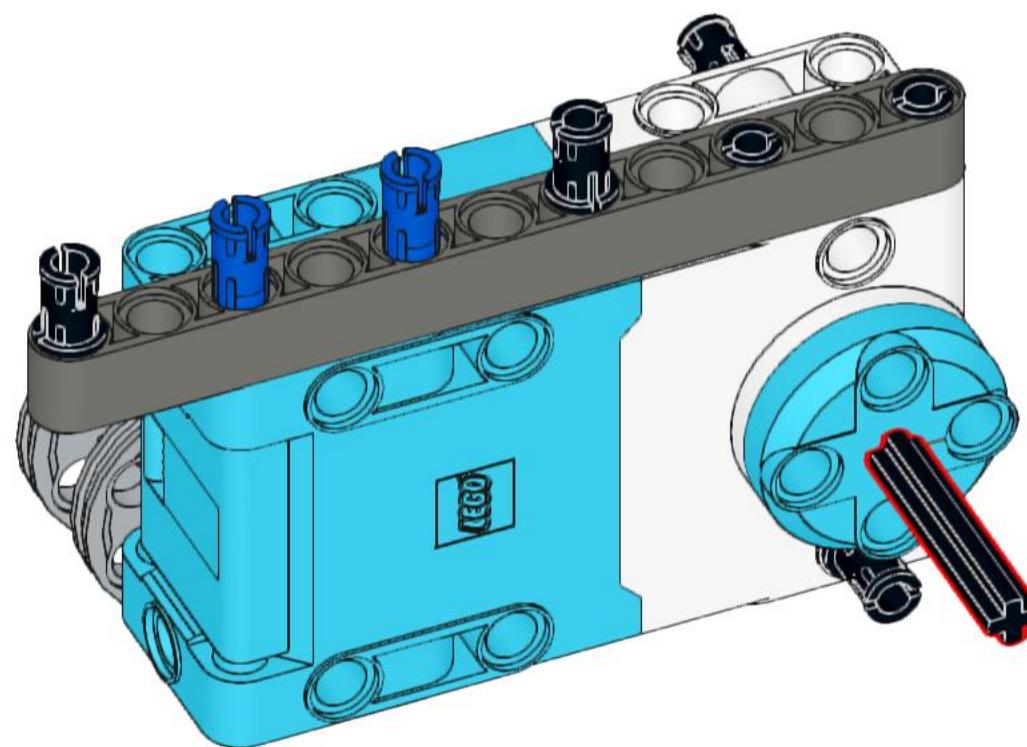
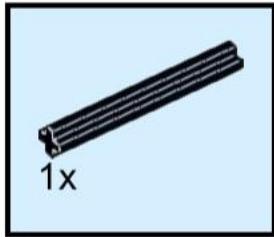
Remember to save the four colored beams until near the end. I'll remind you when to use them



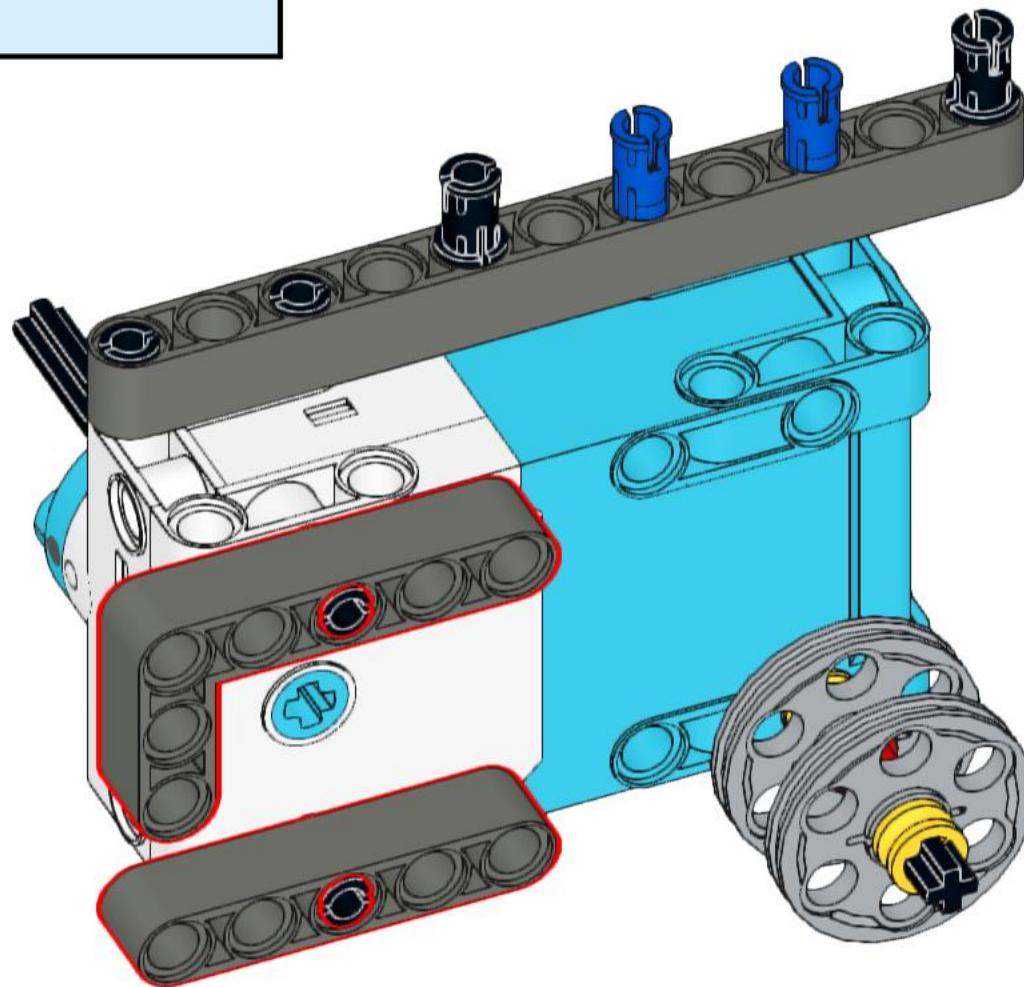
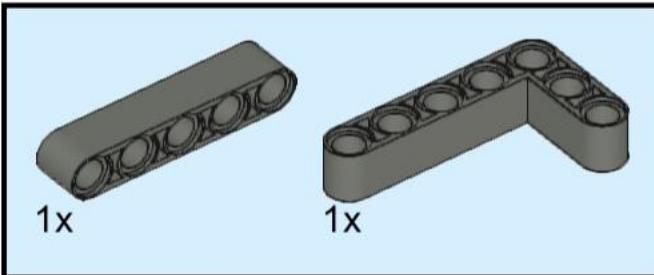
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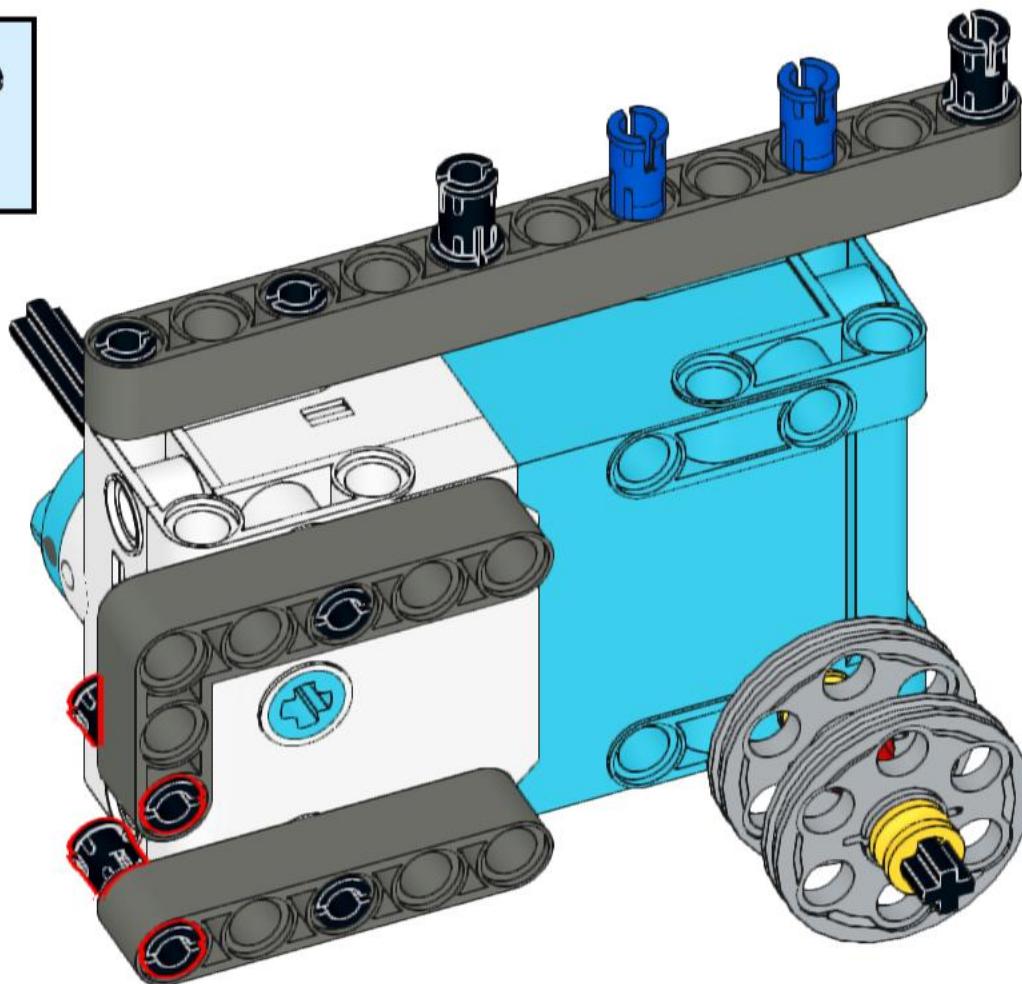
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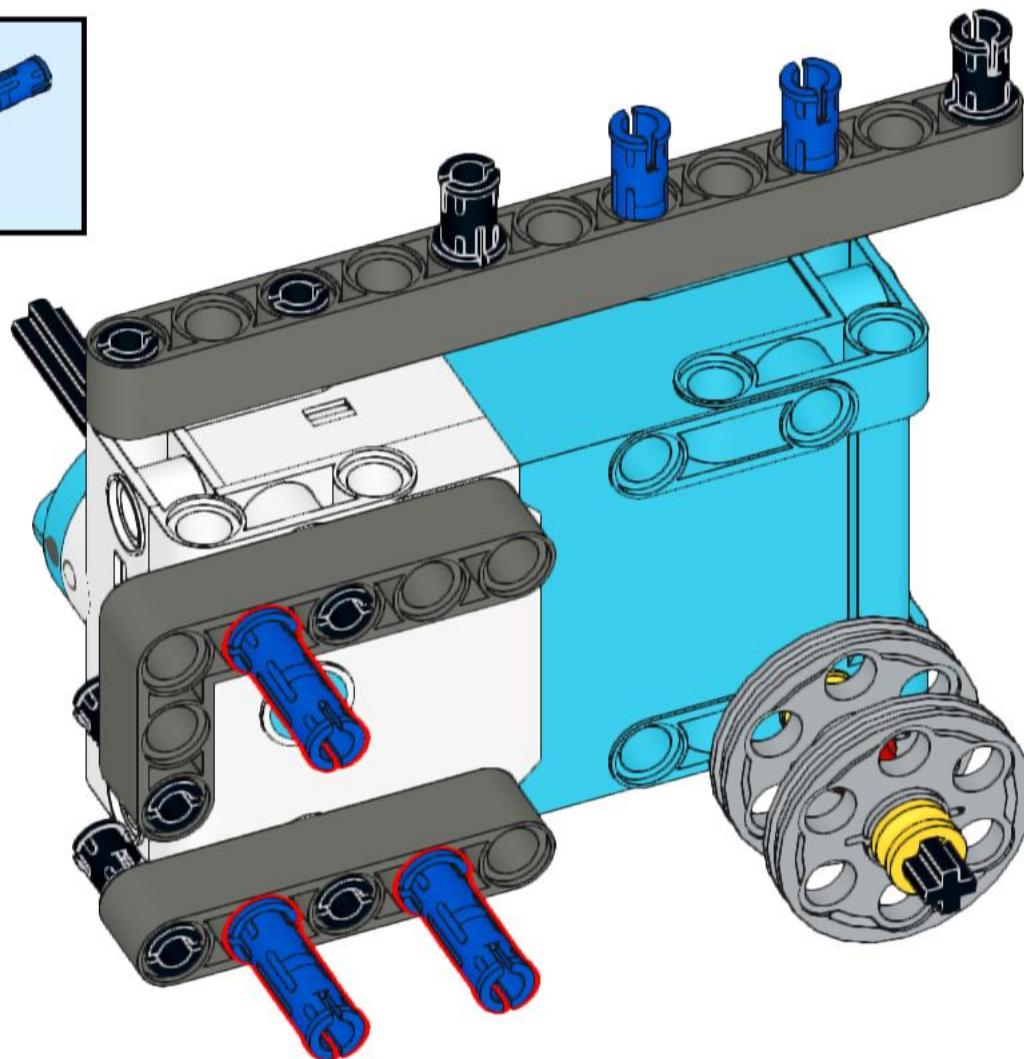
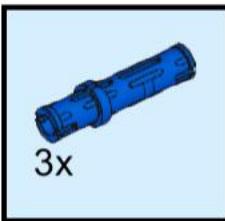
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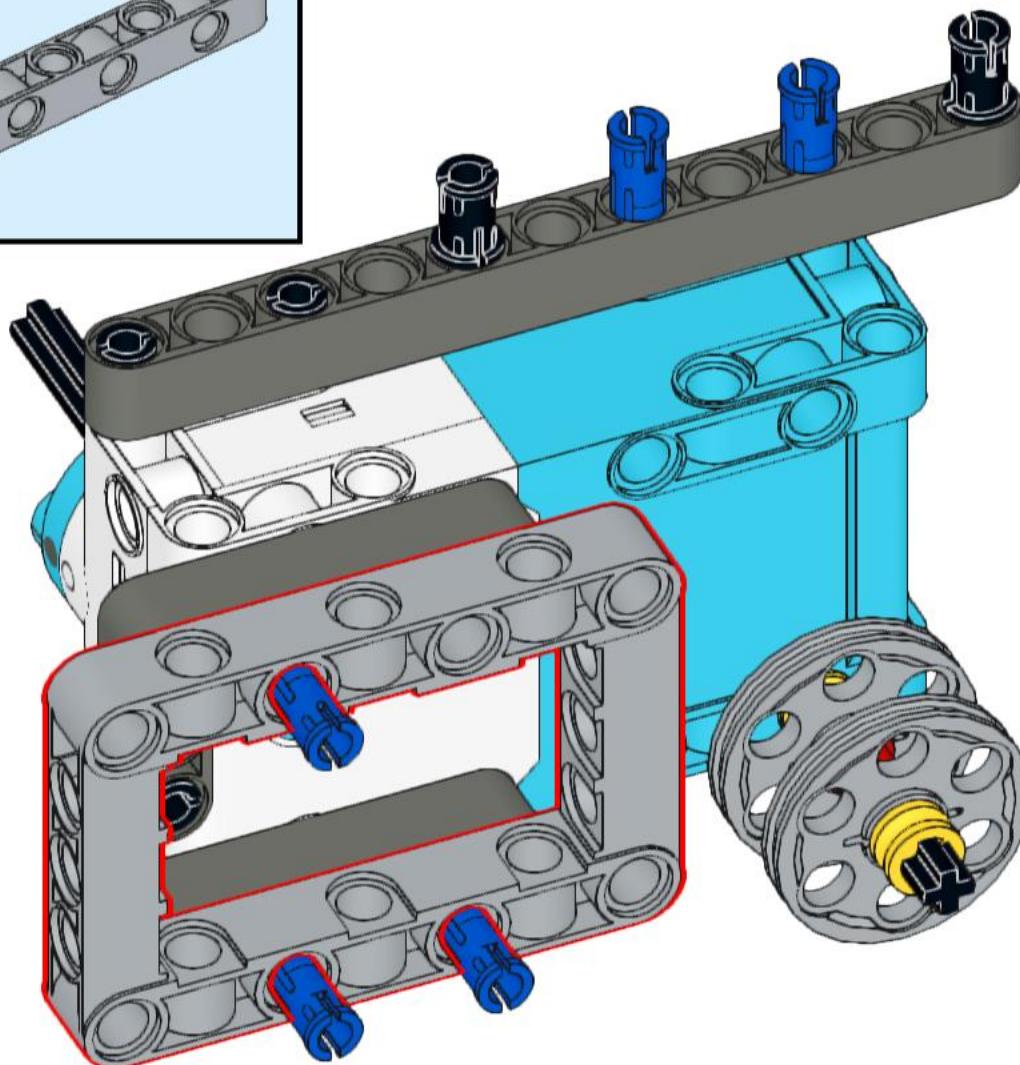
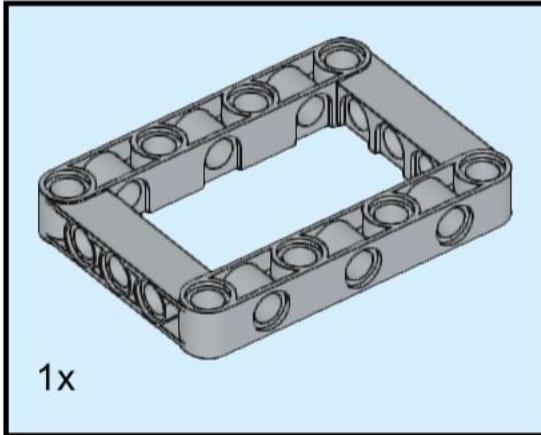
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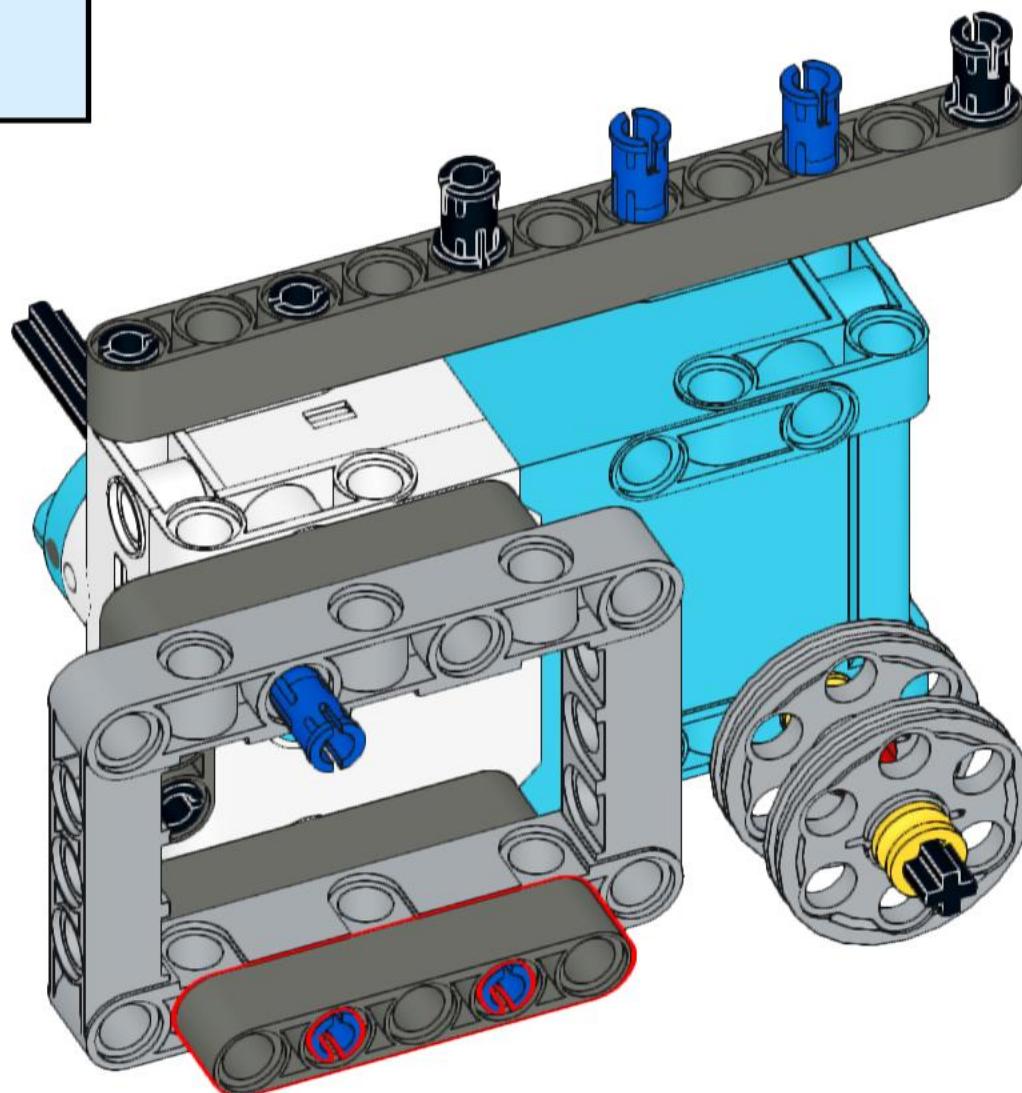
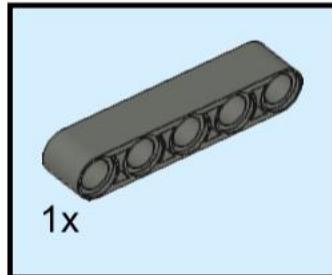
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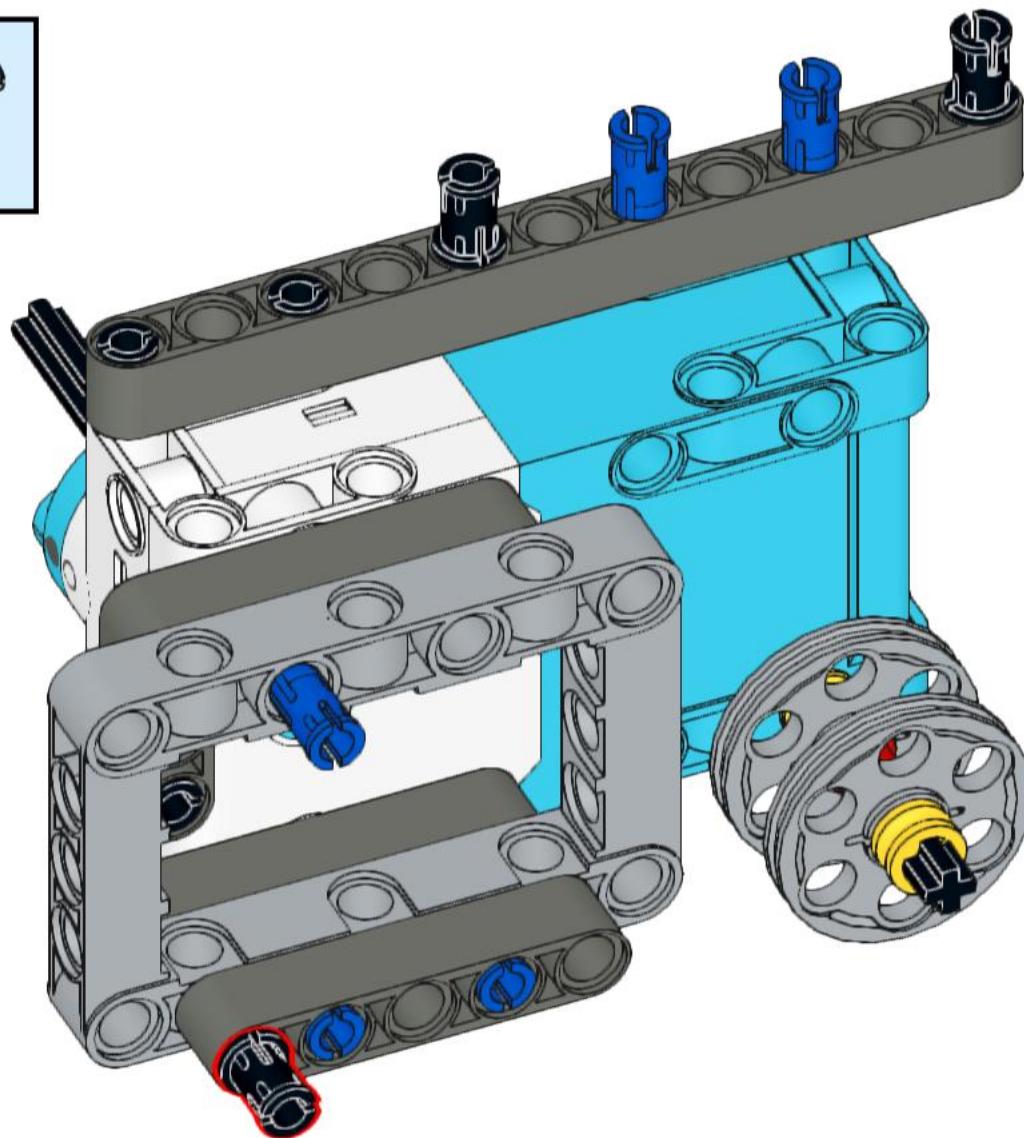
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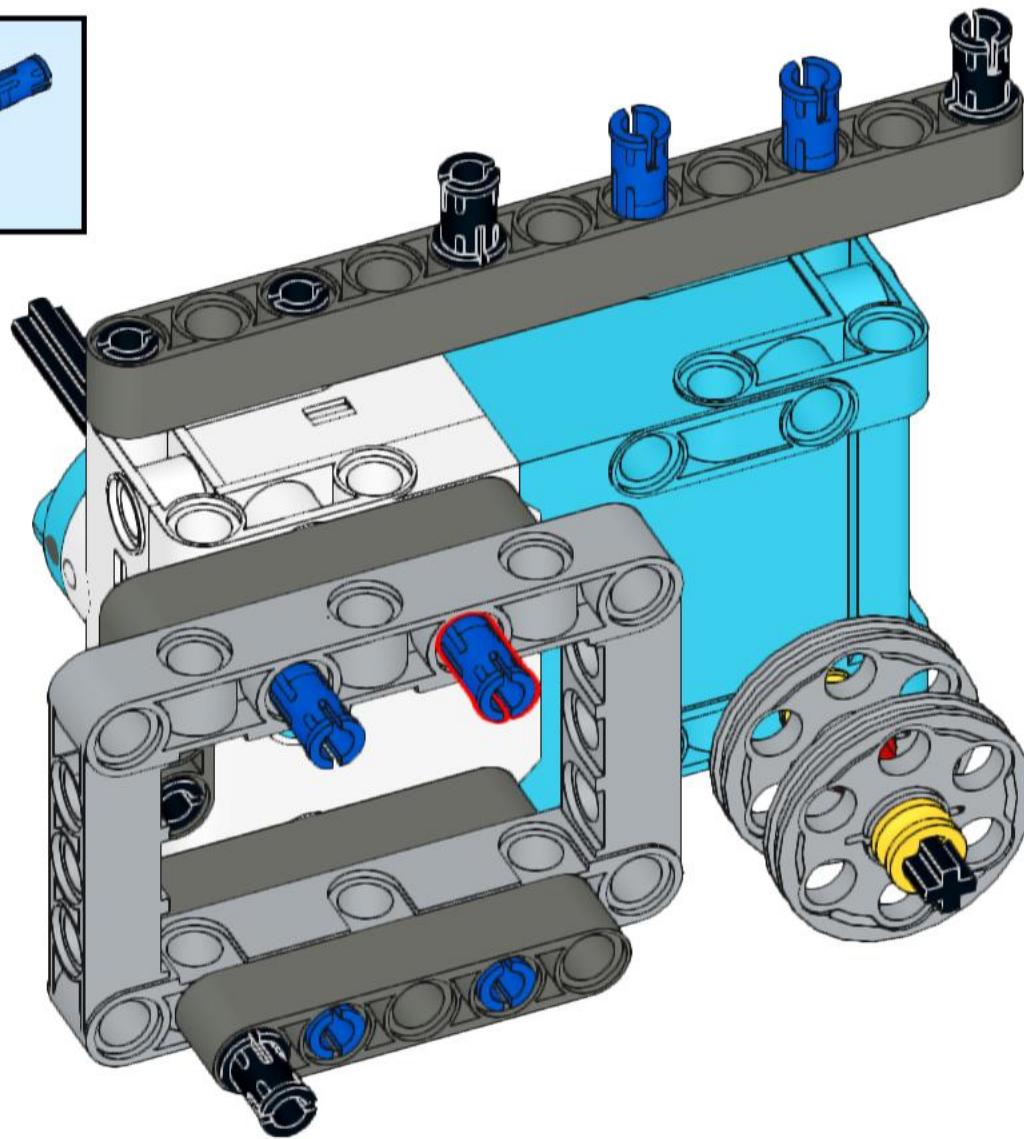
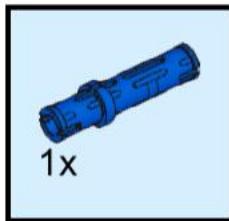
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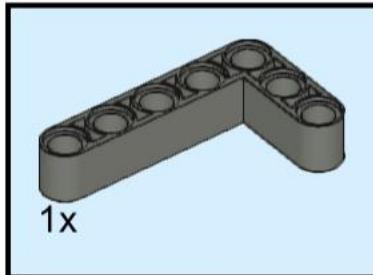
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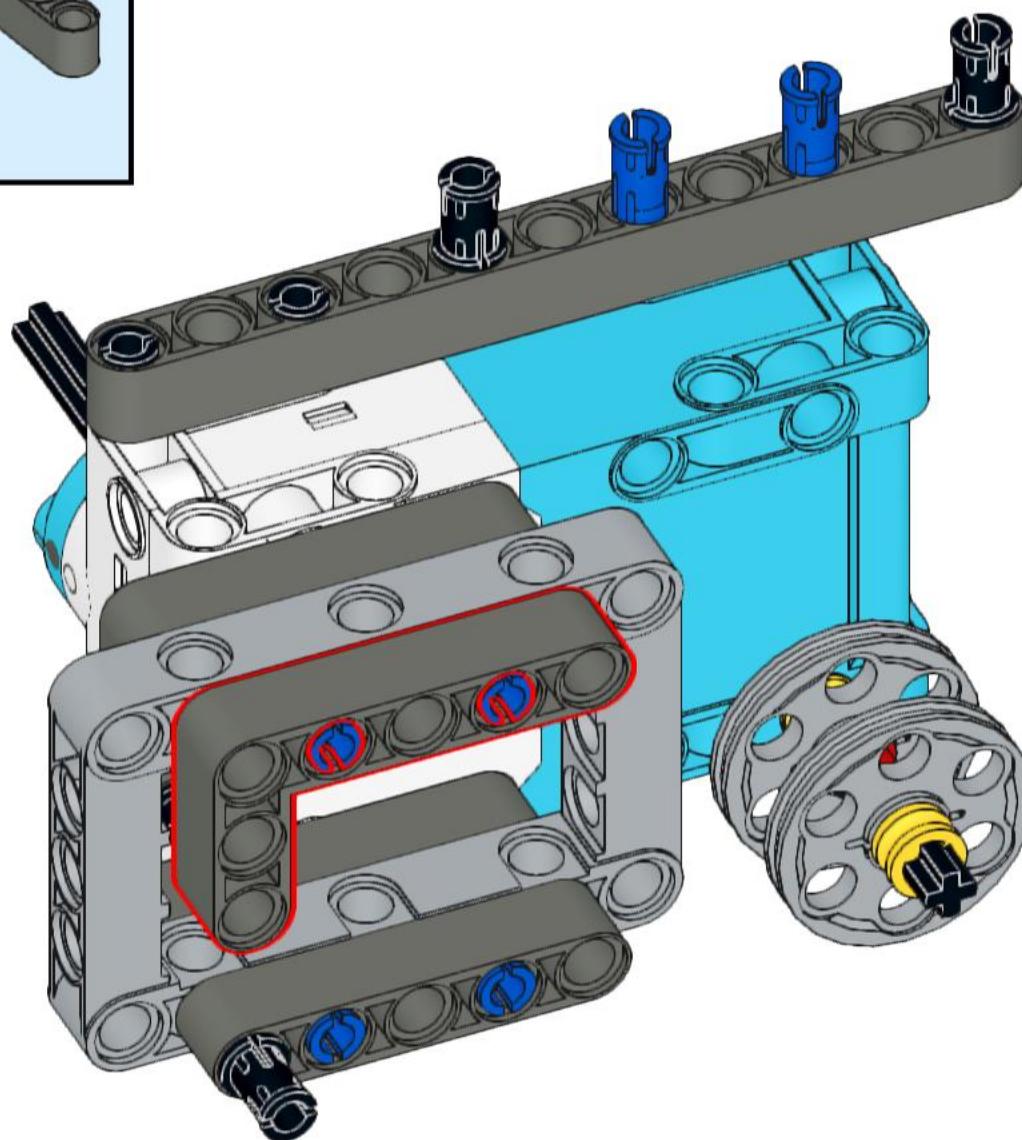
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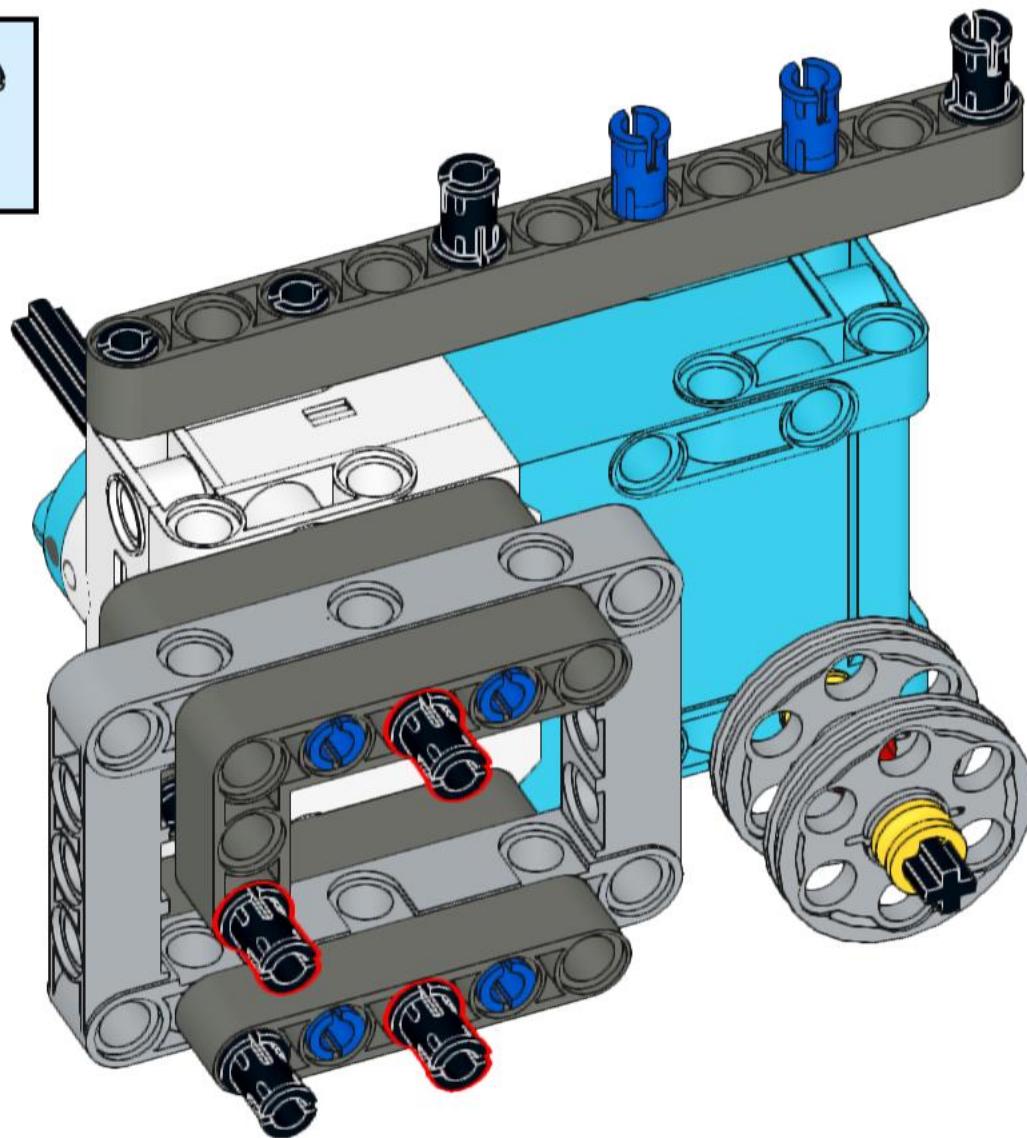
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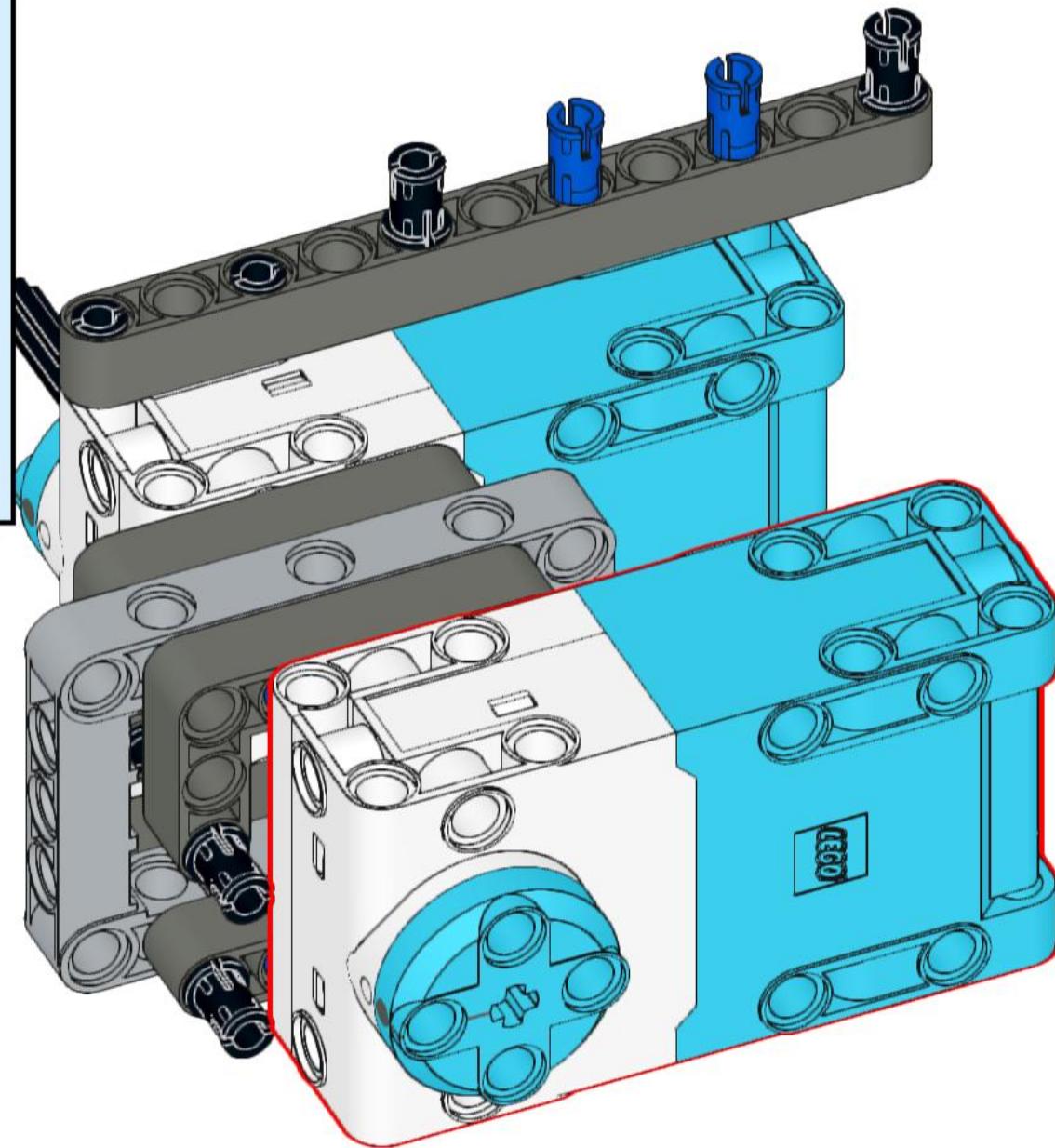
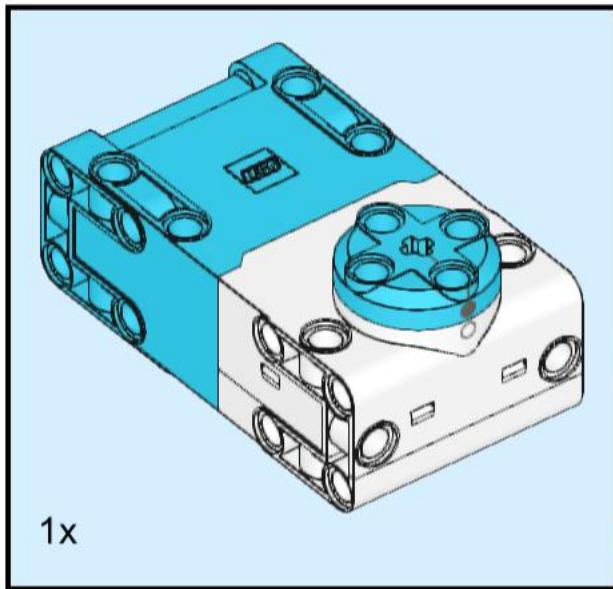
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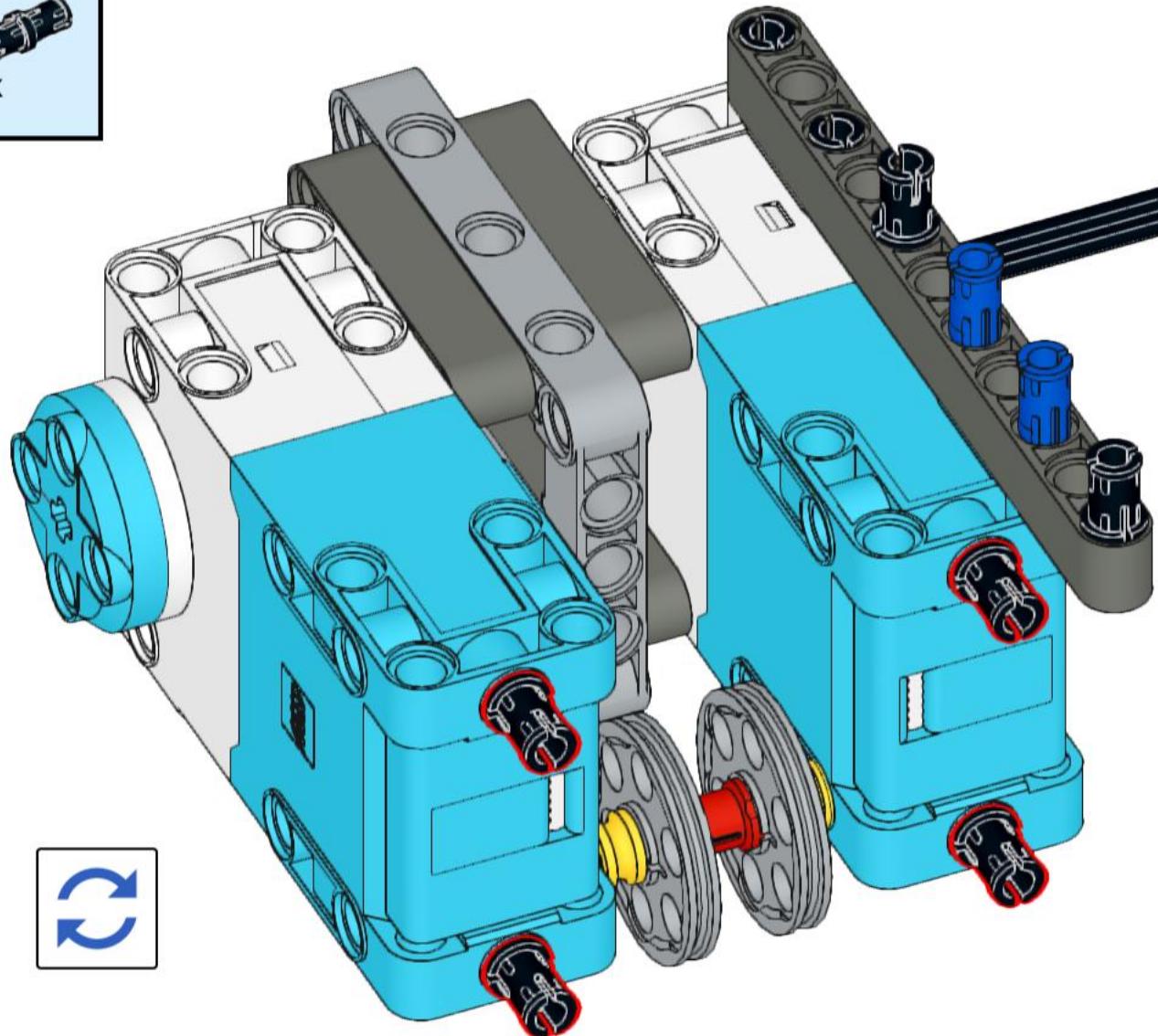
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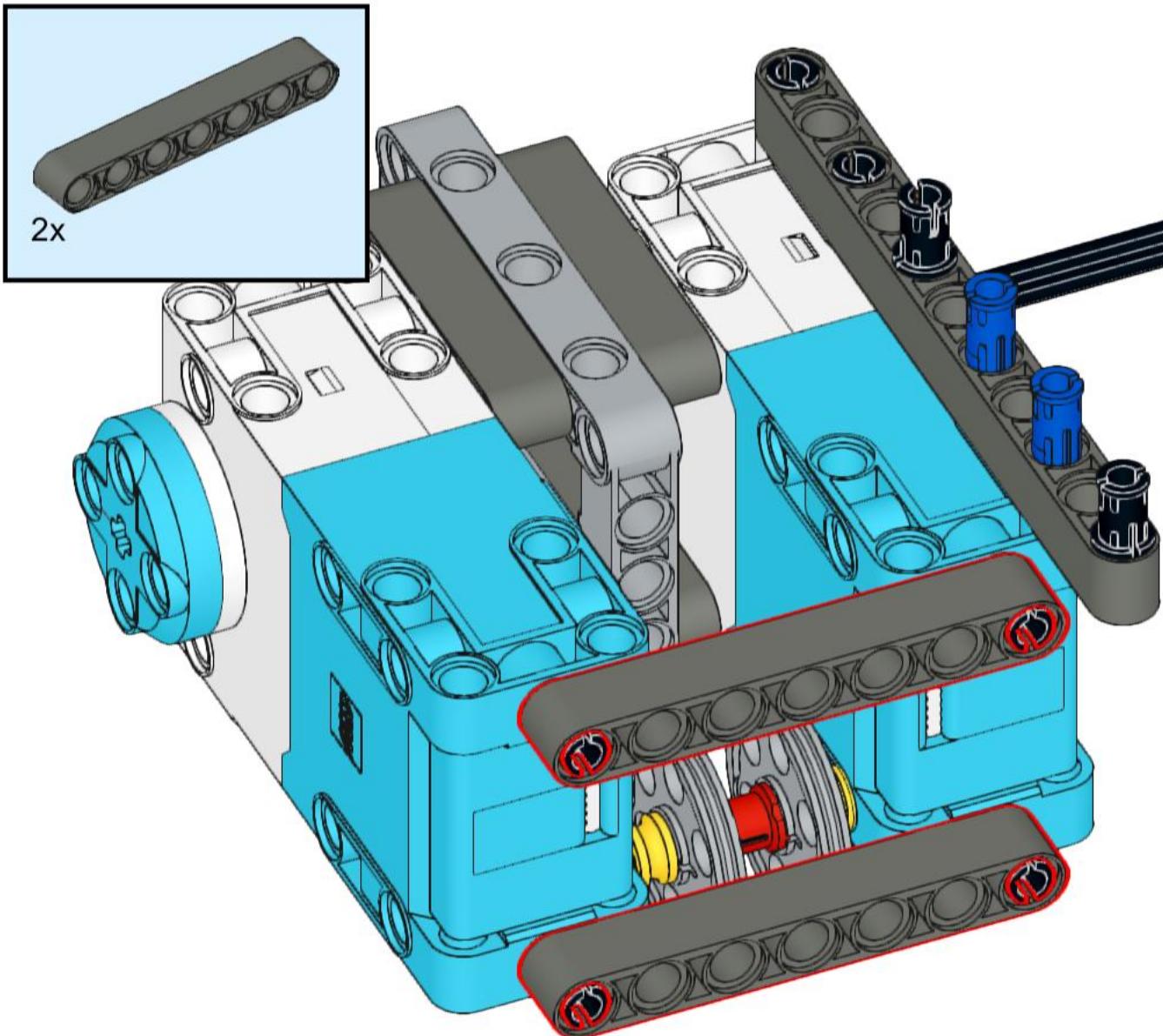
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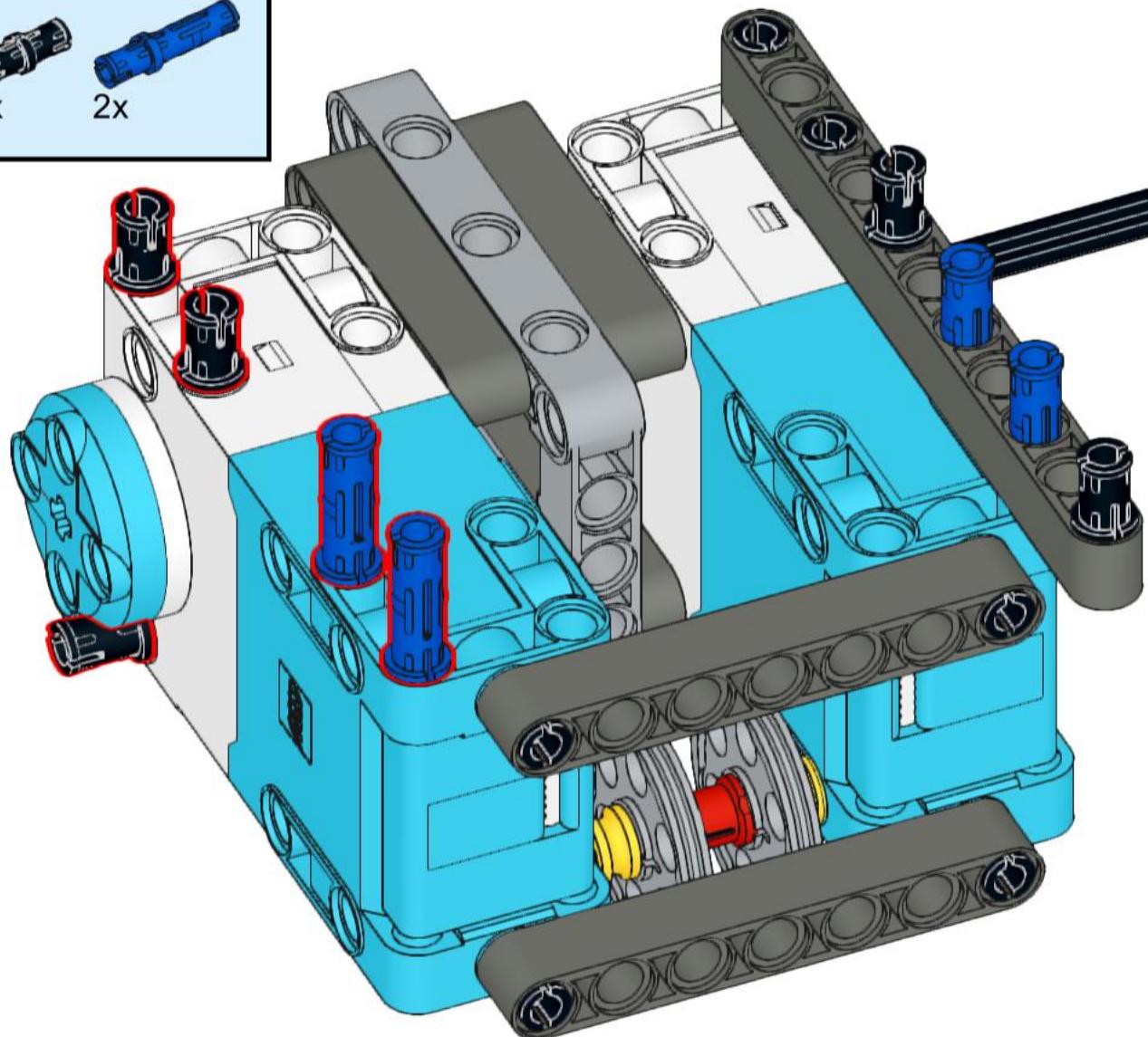
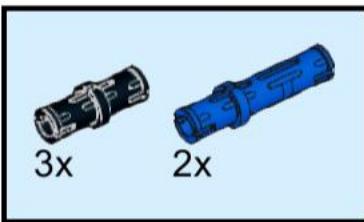
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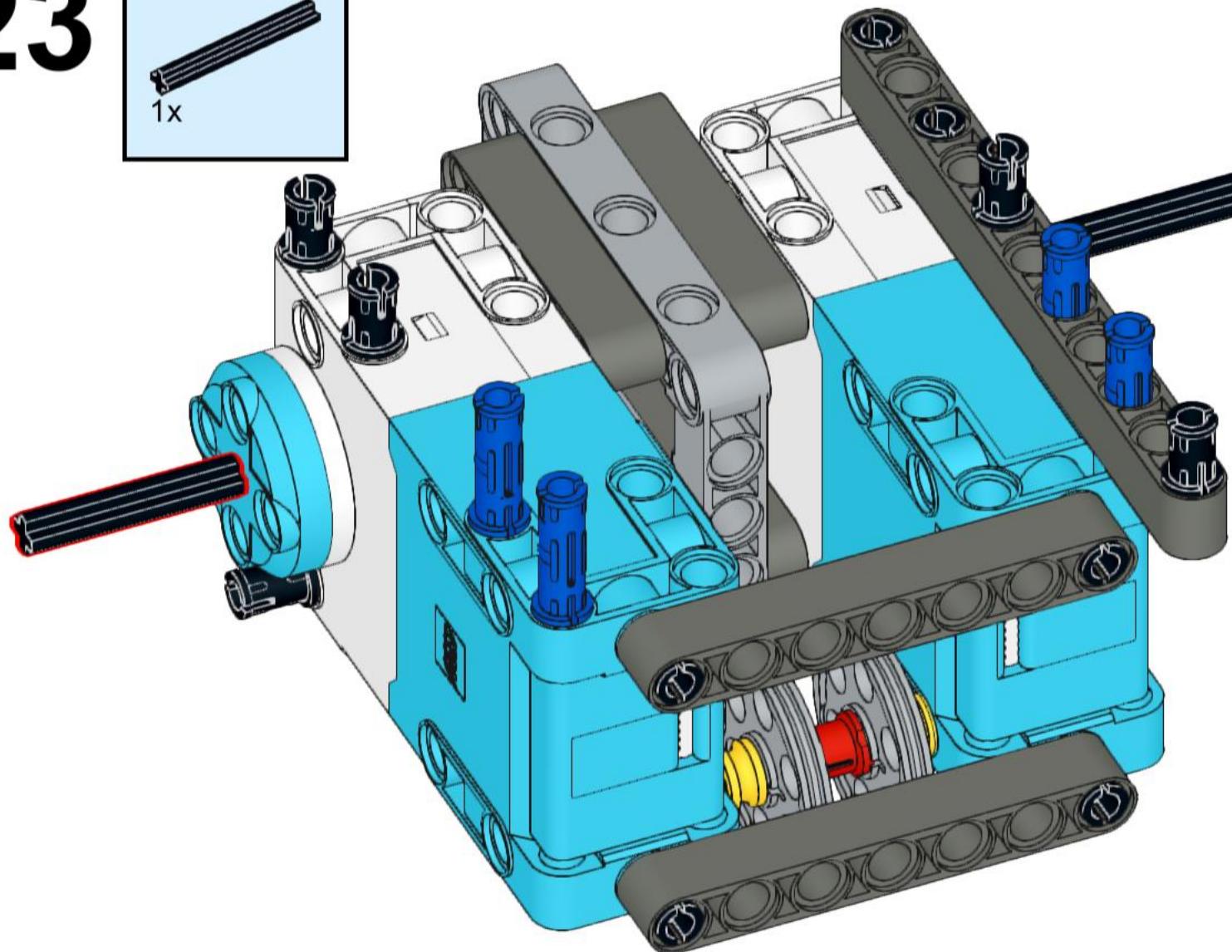
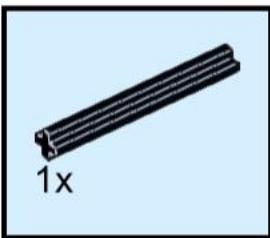
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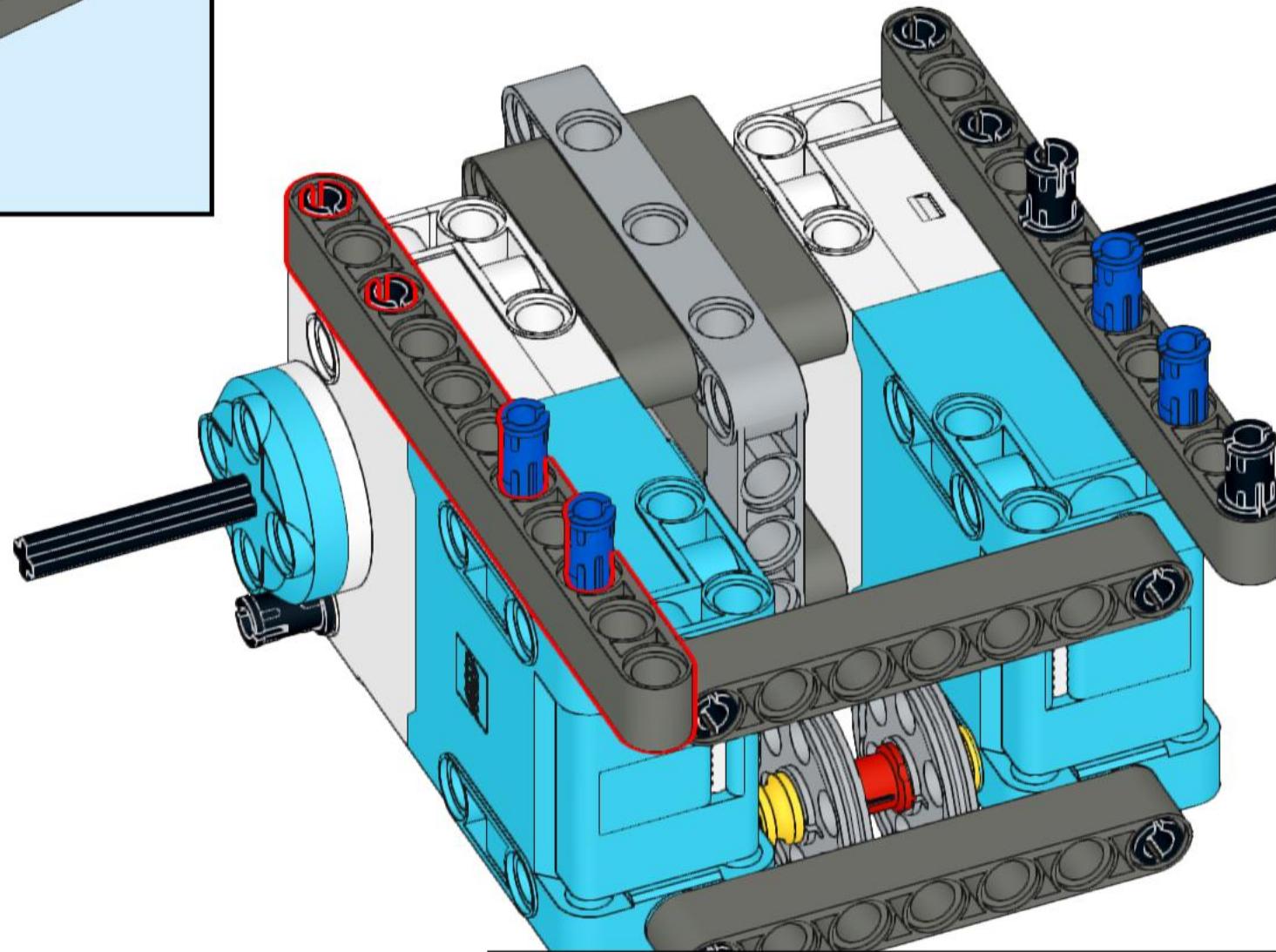
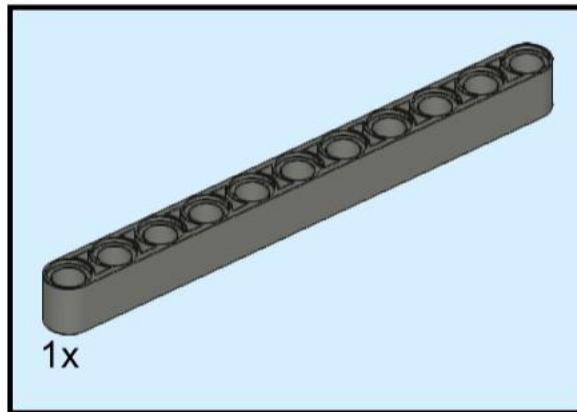
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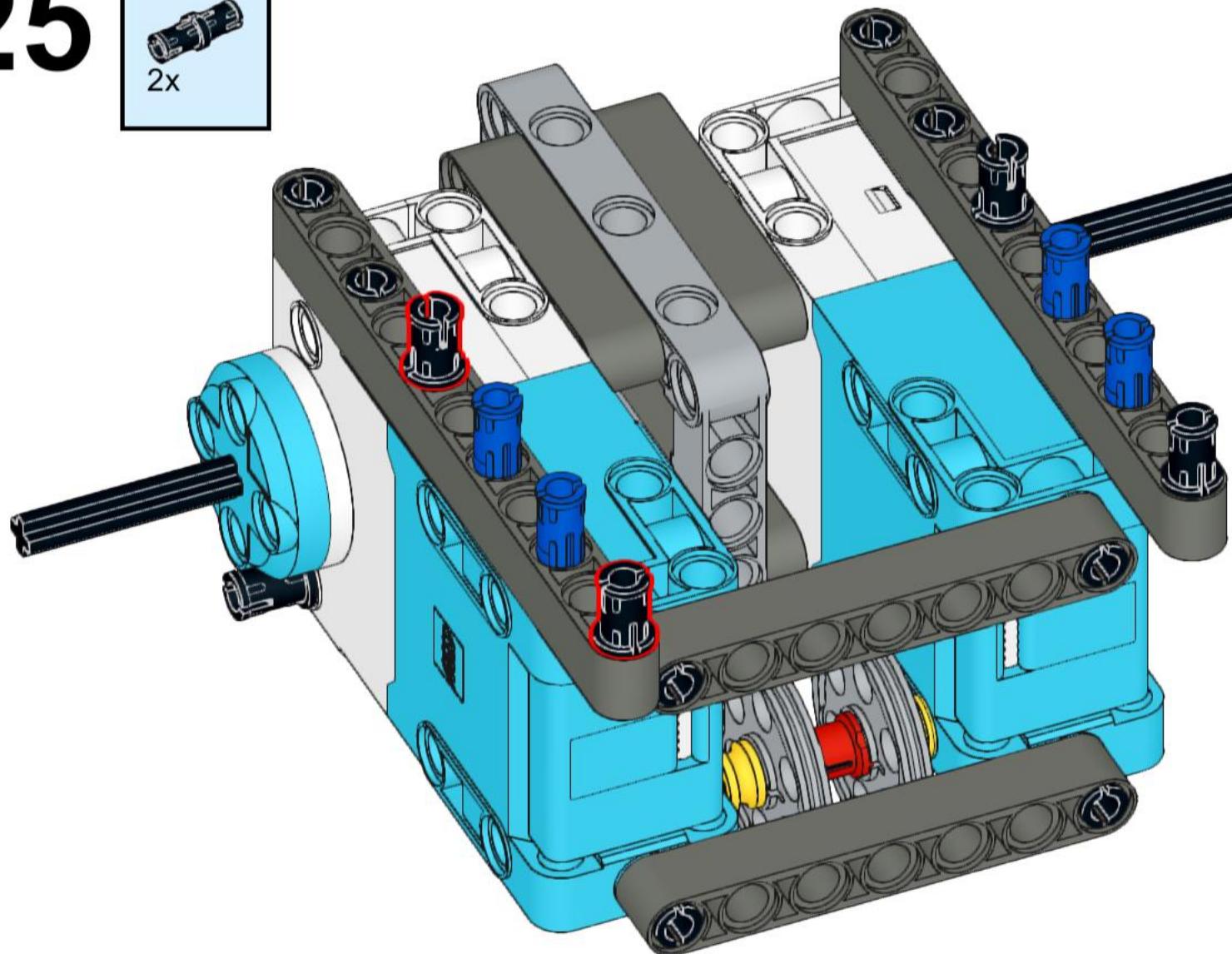


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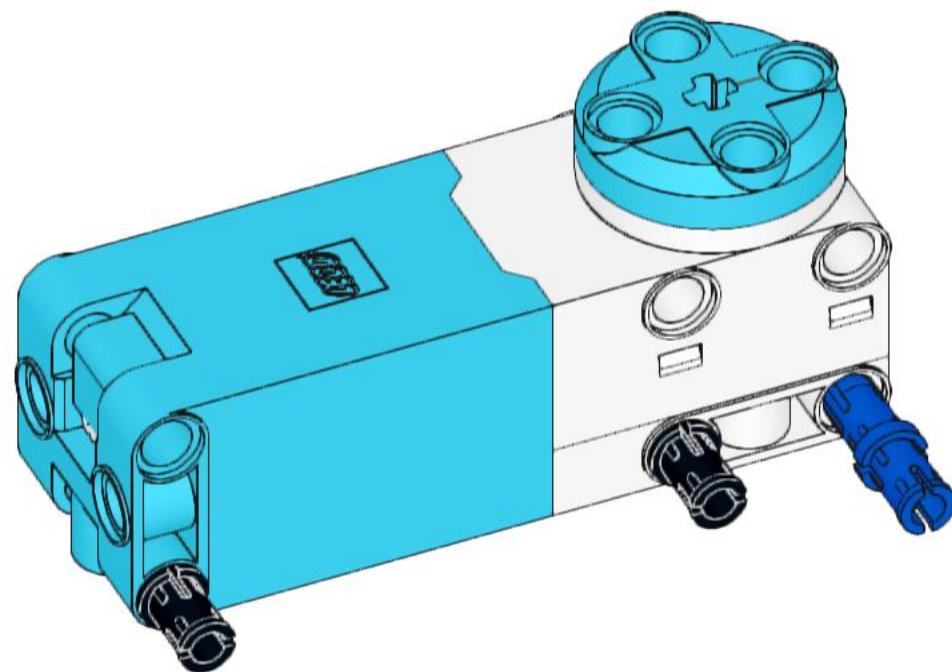
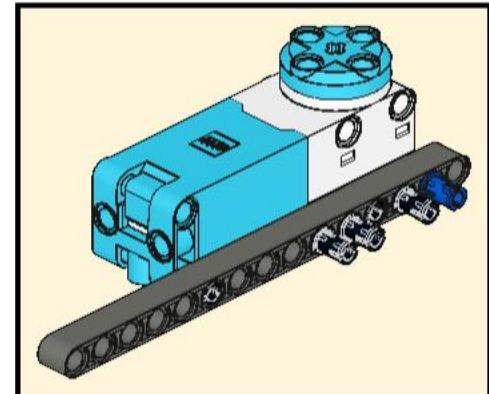
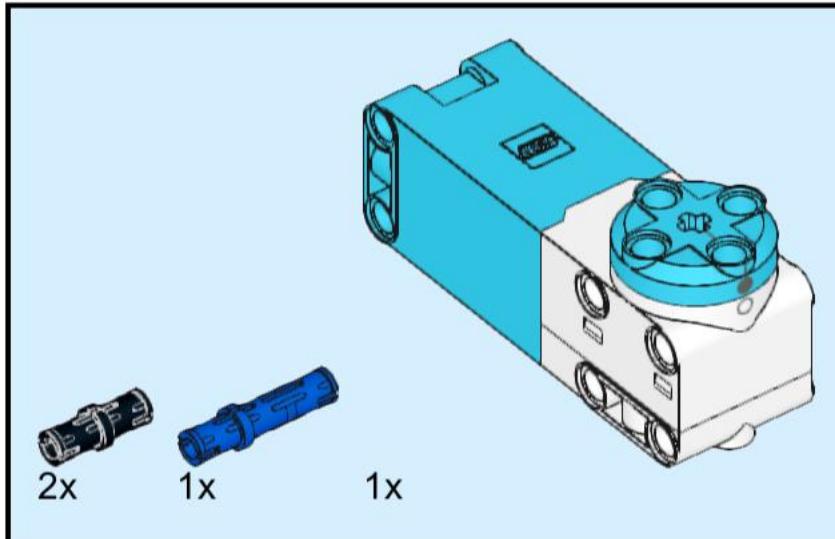


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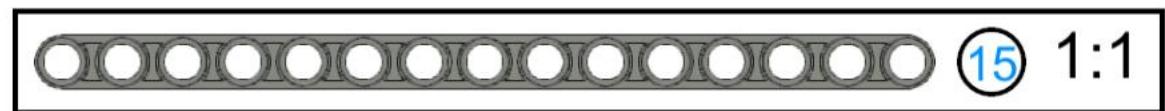
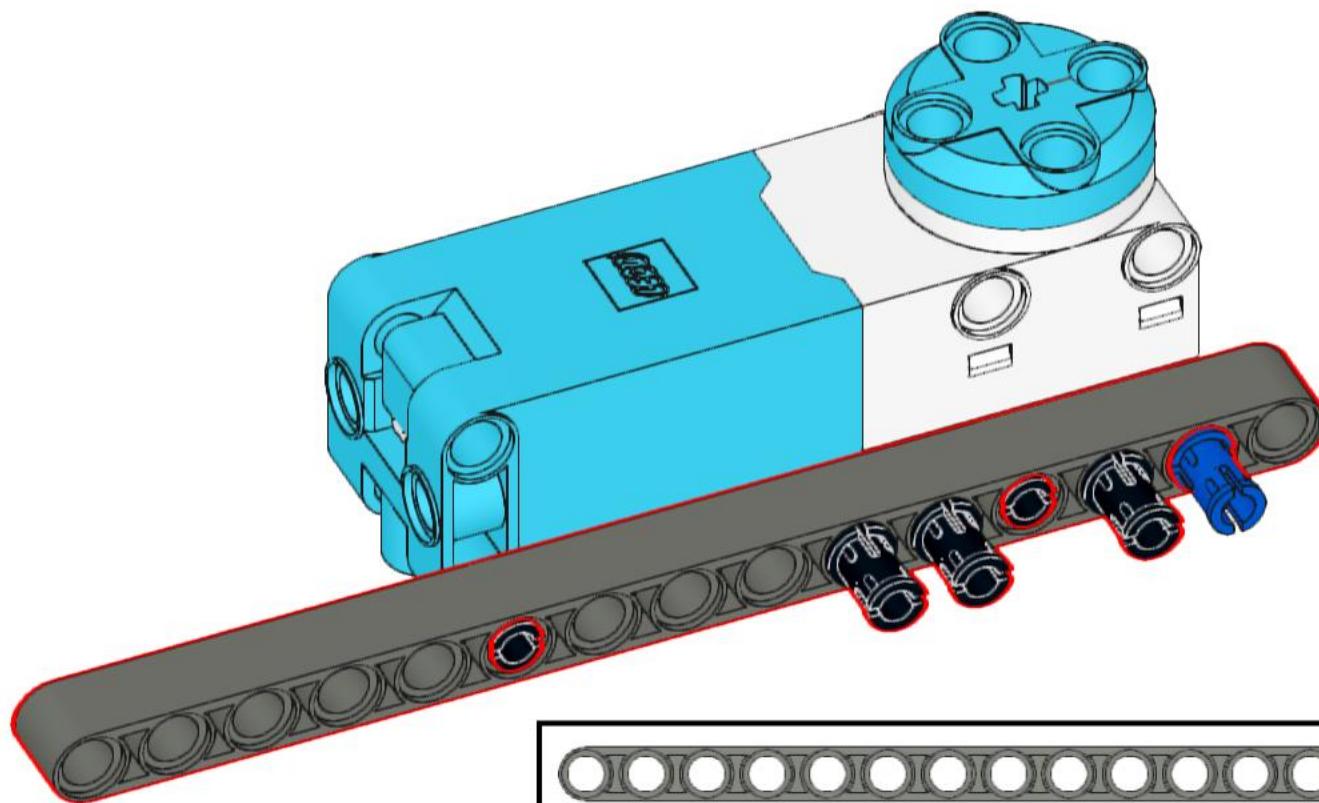
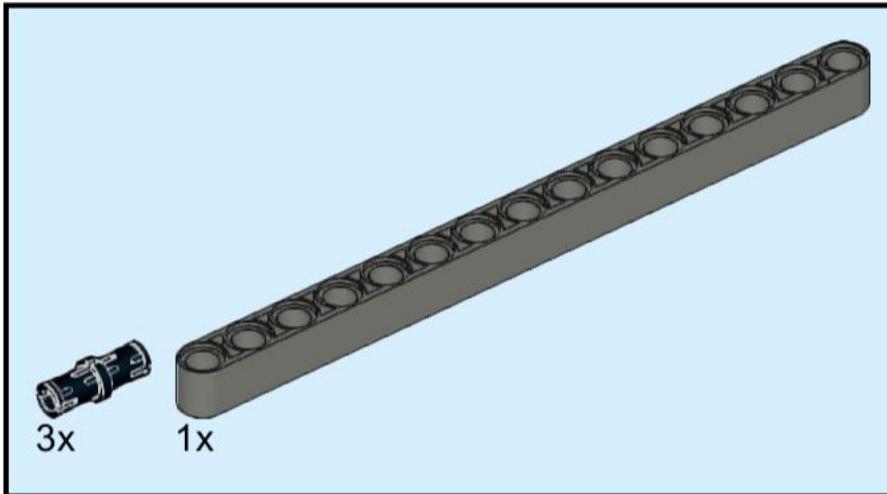
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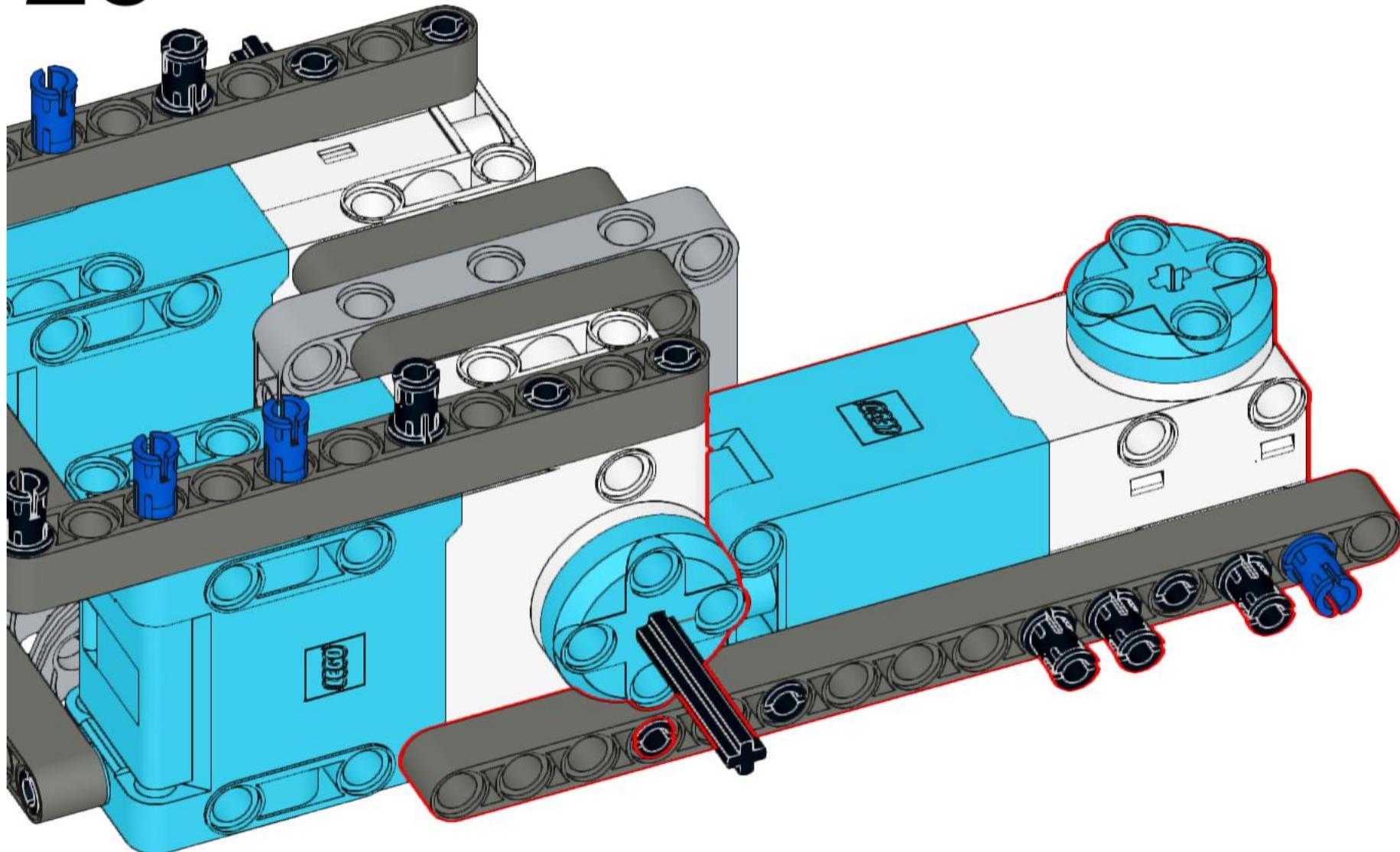


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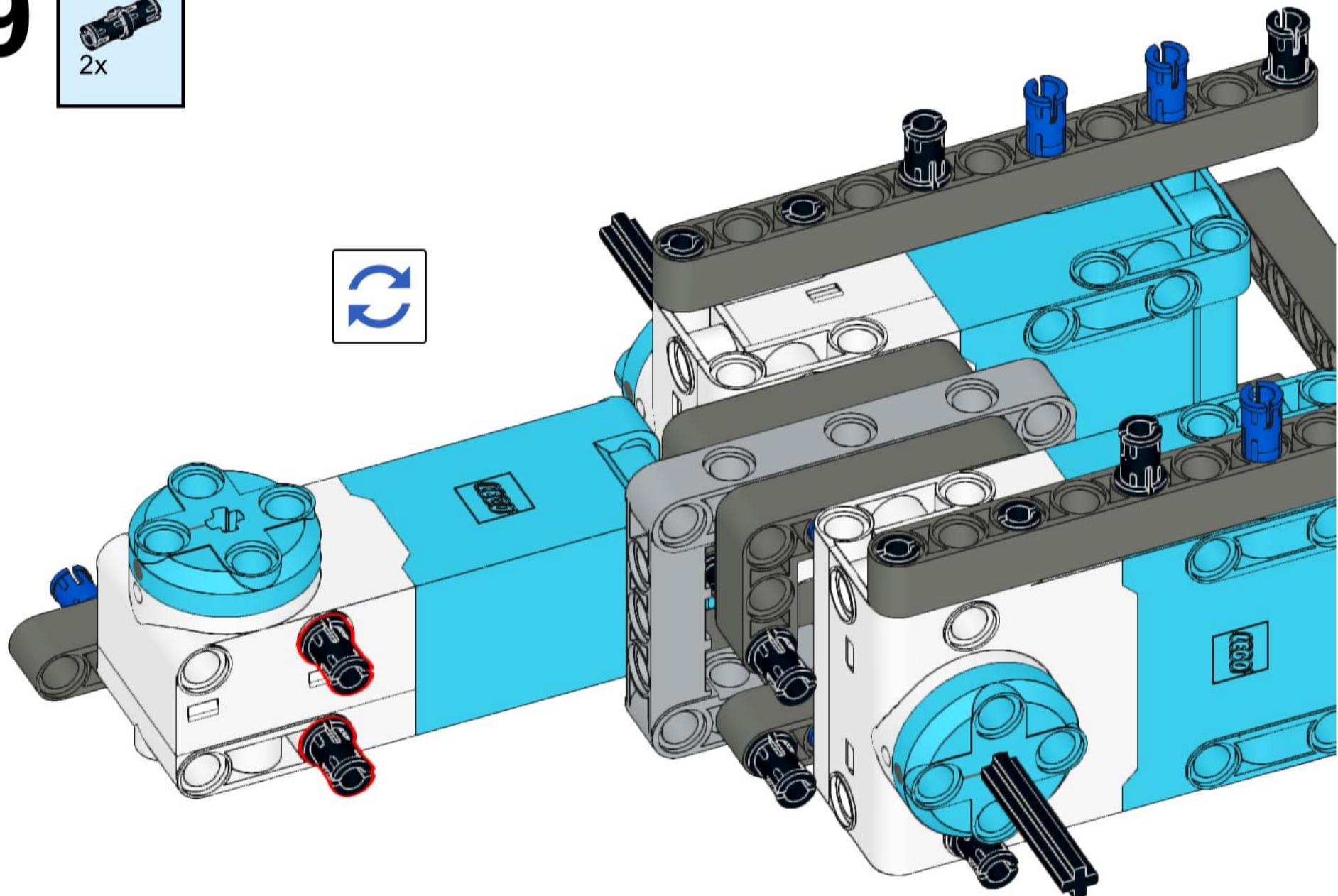


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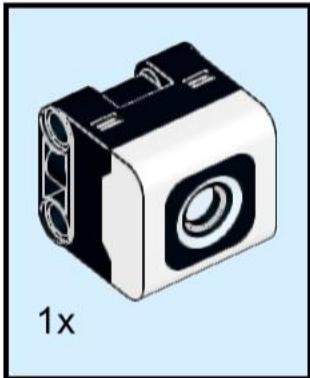
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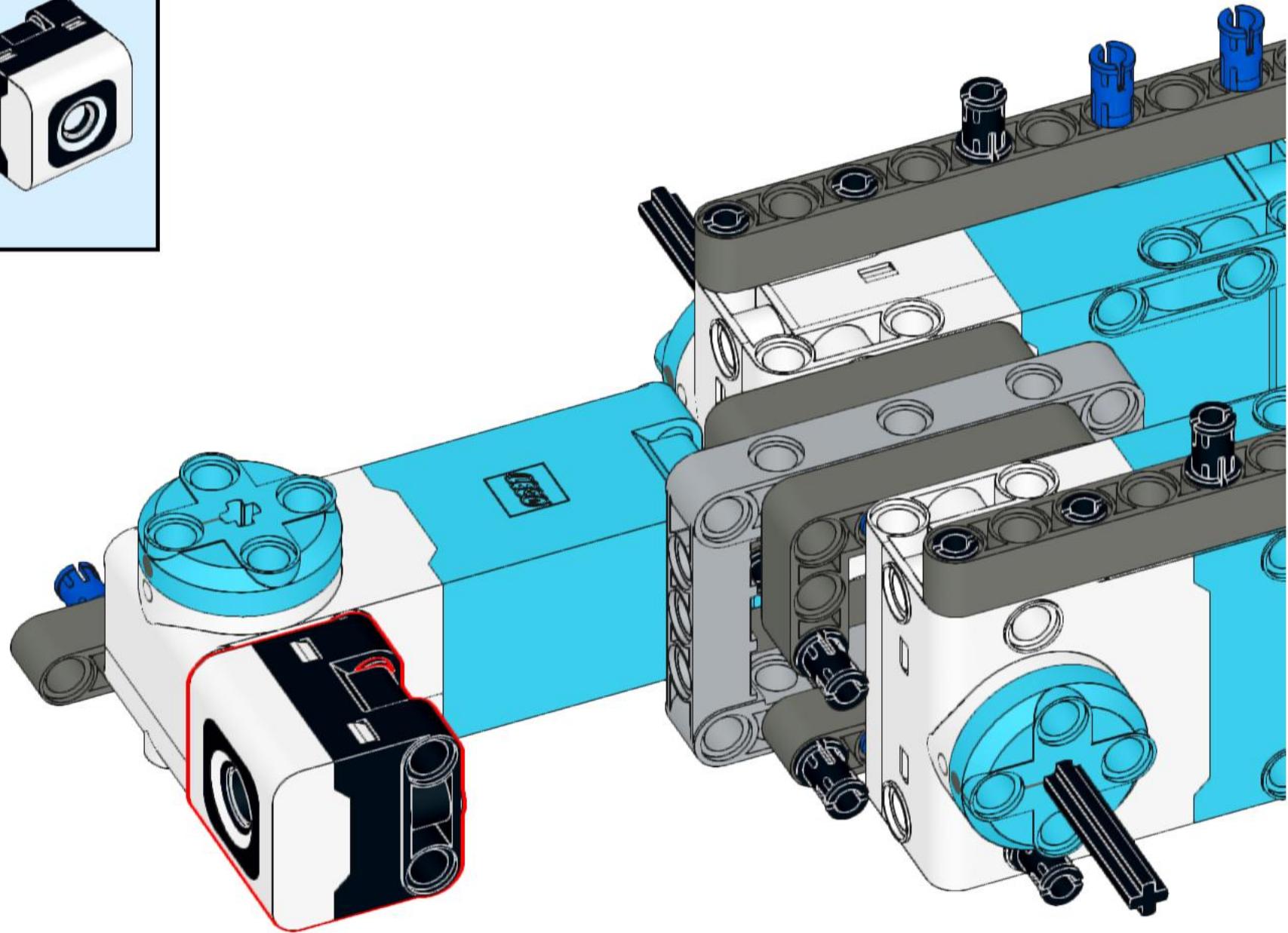
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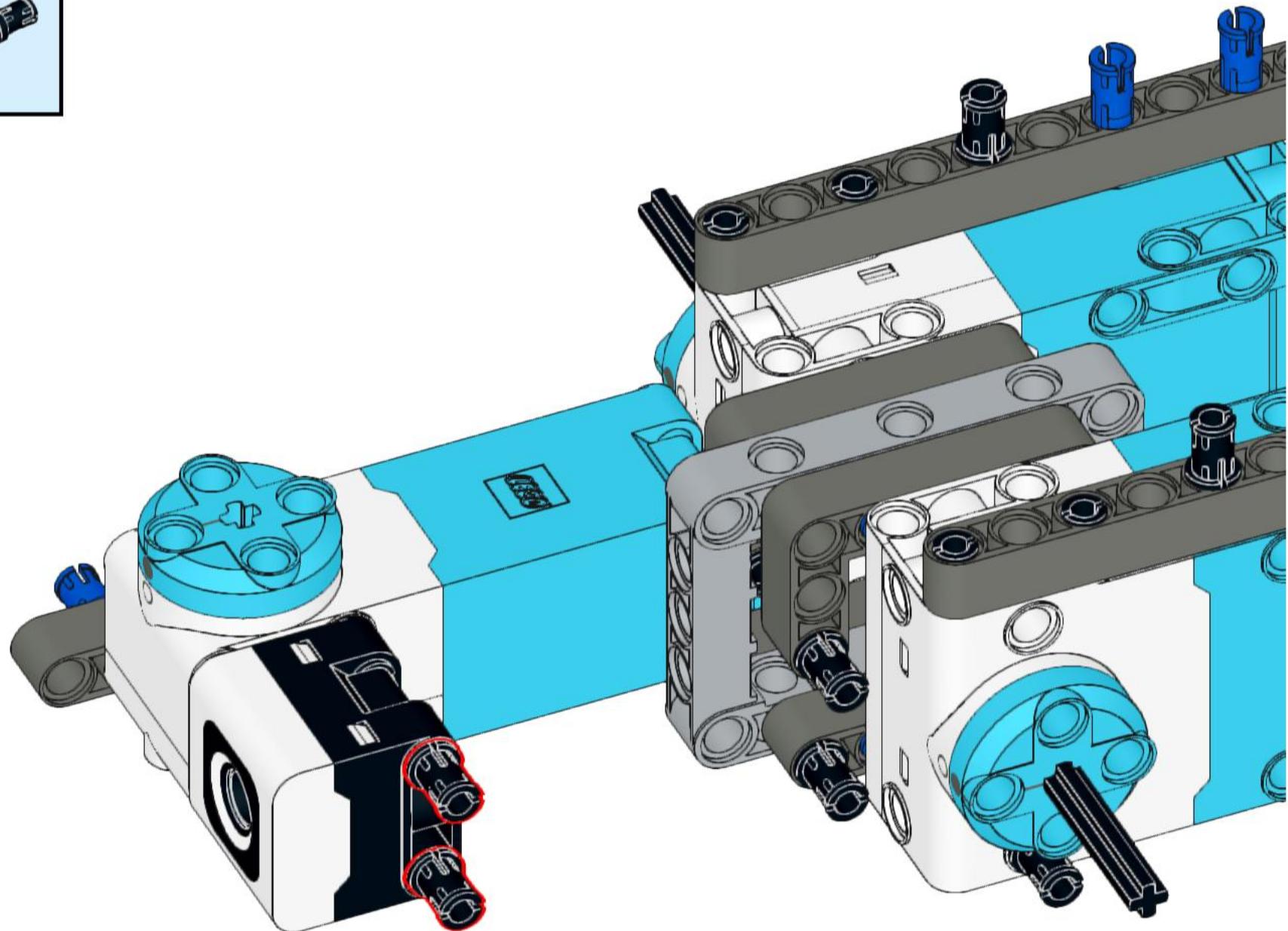
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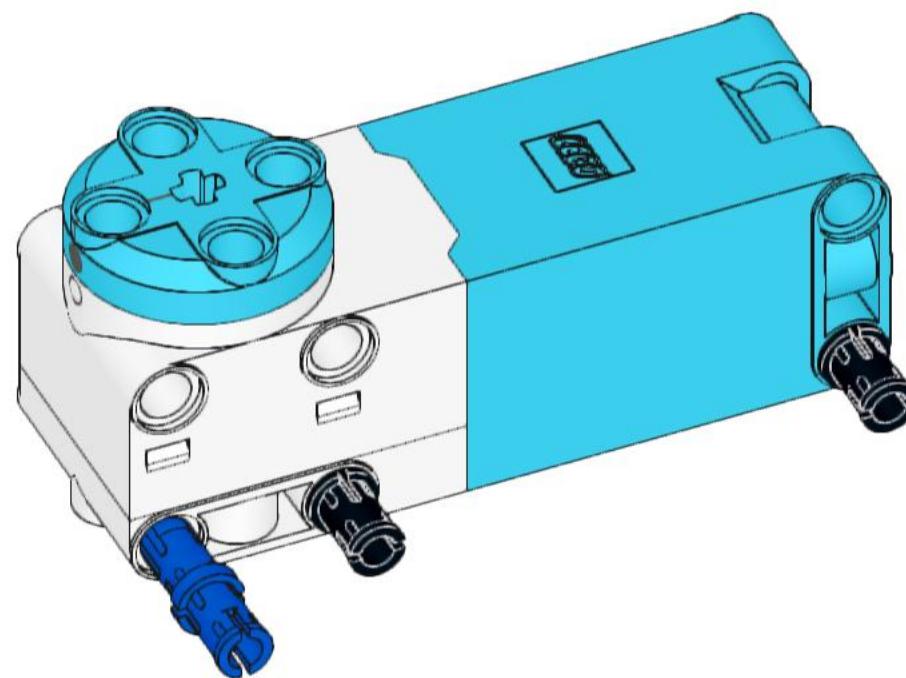
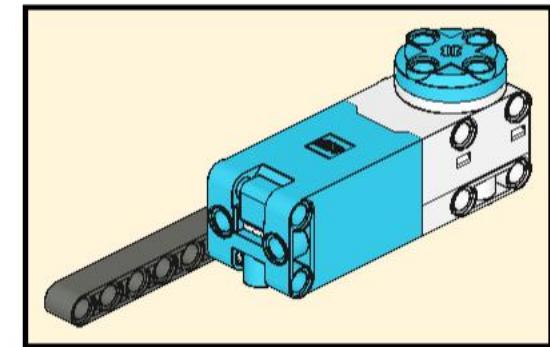
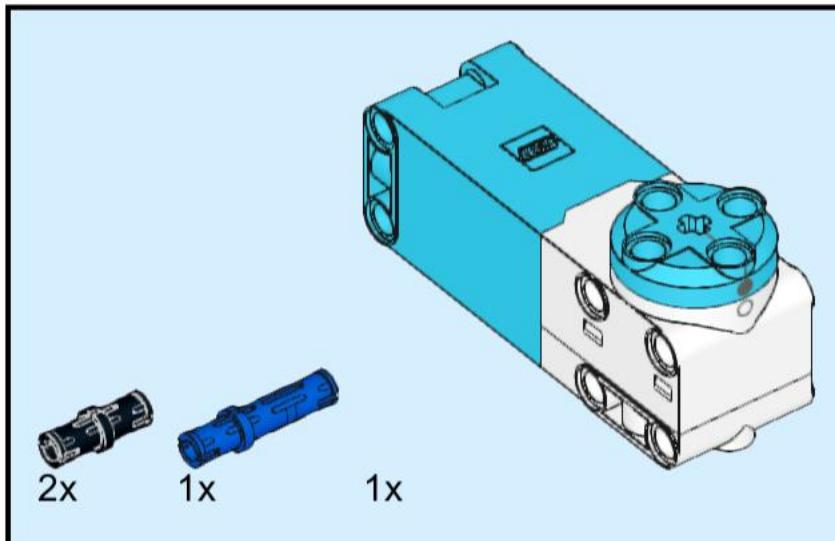
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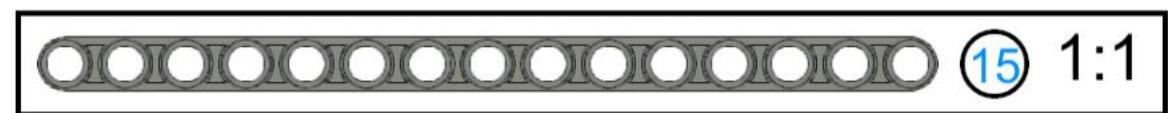
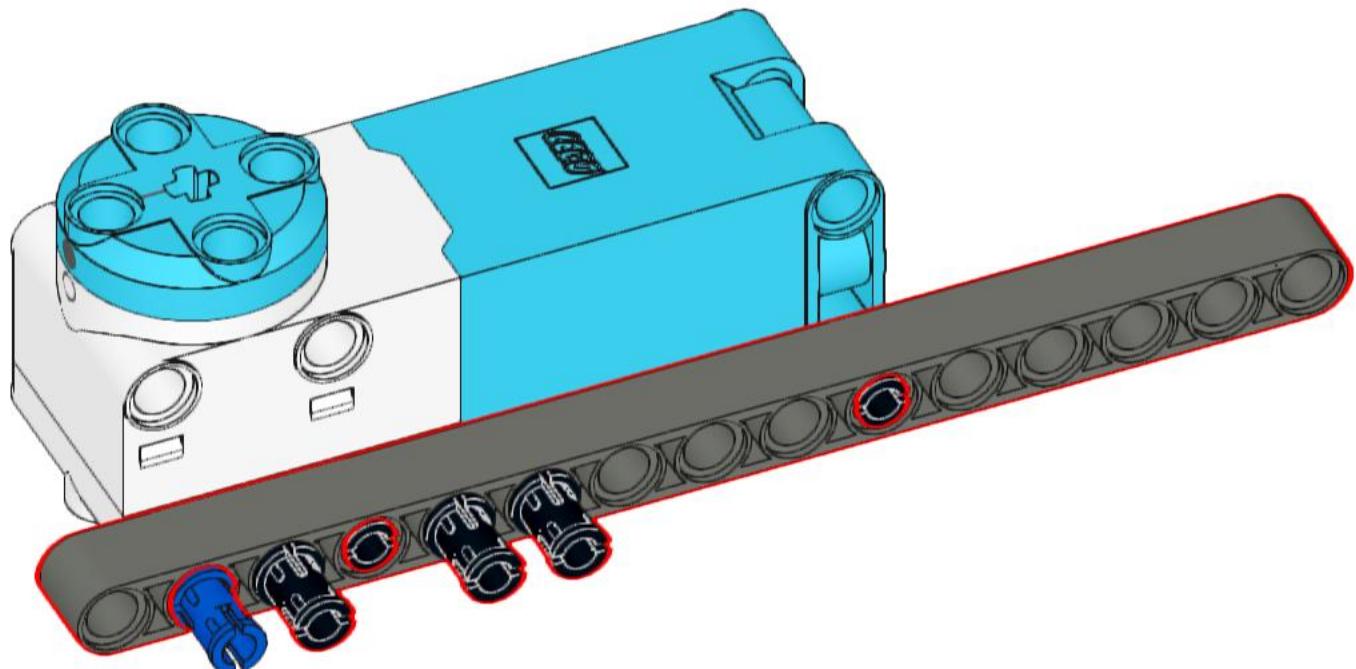
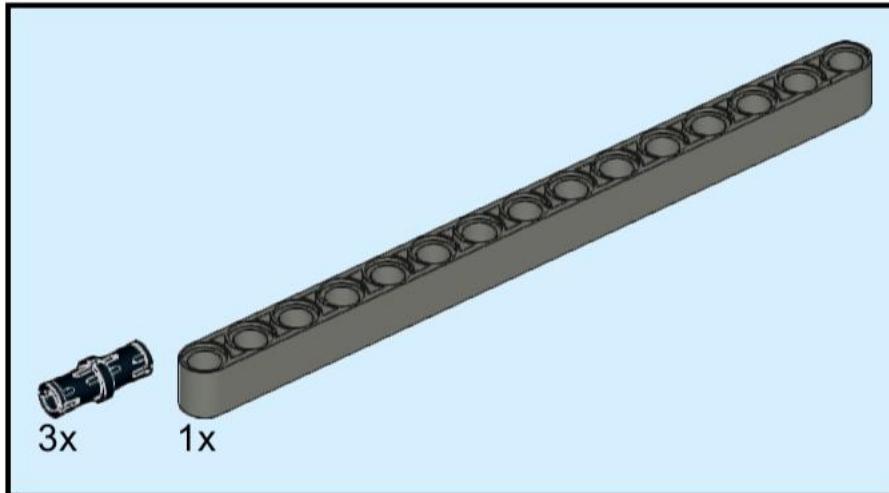
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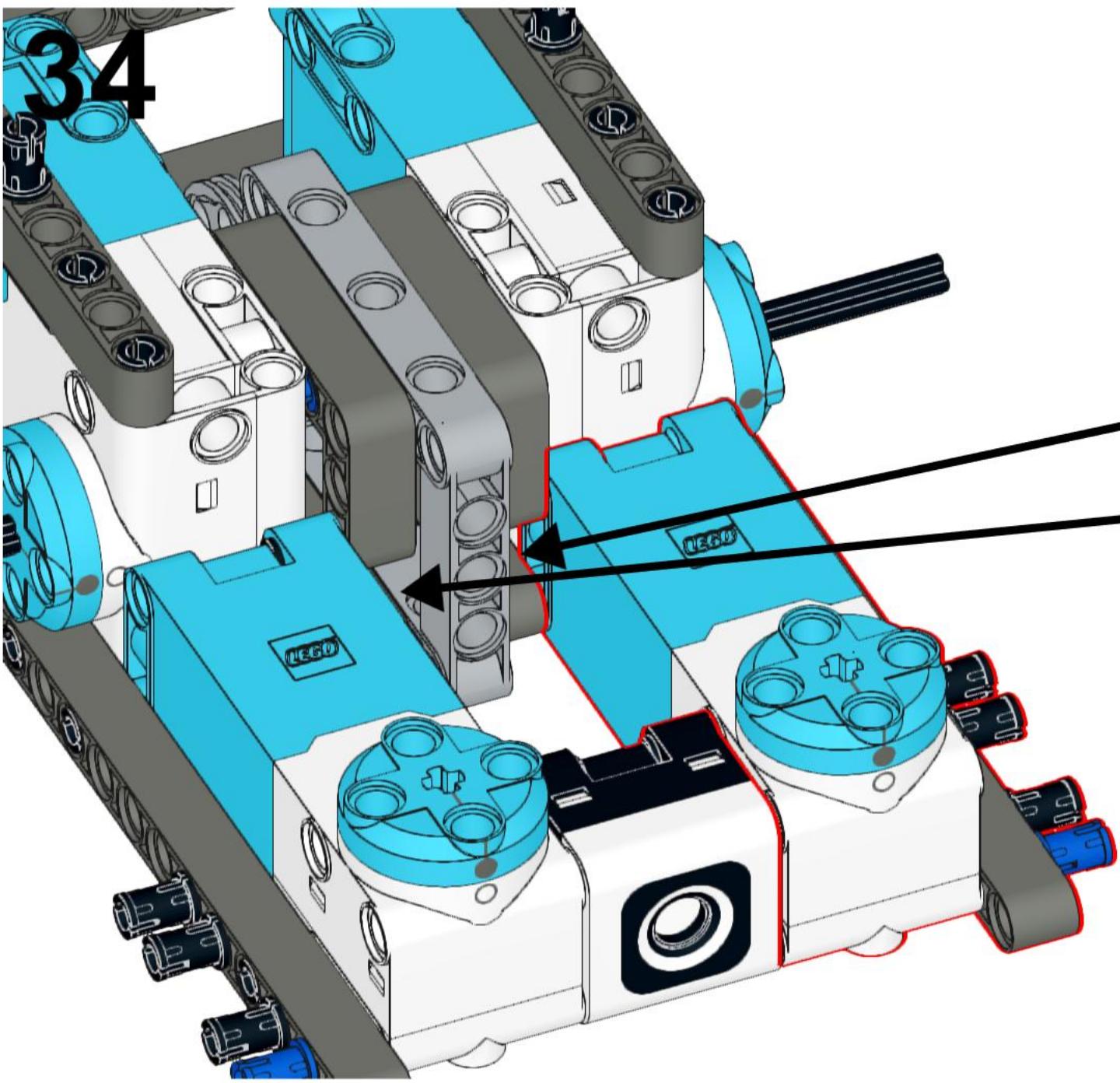


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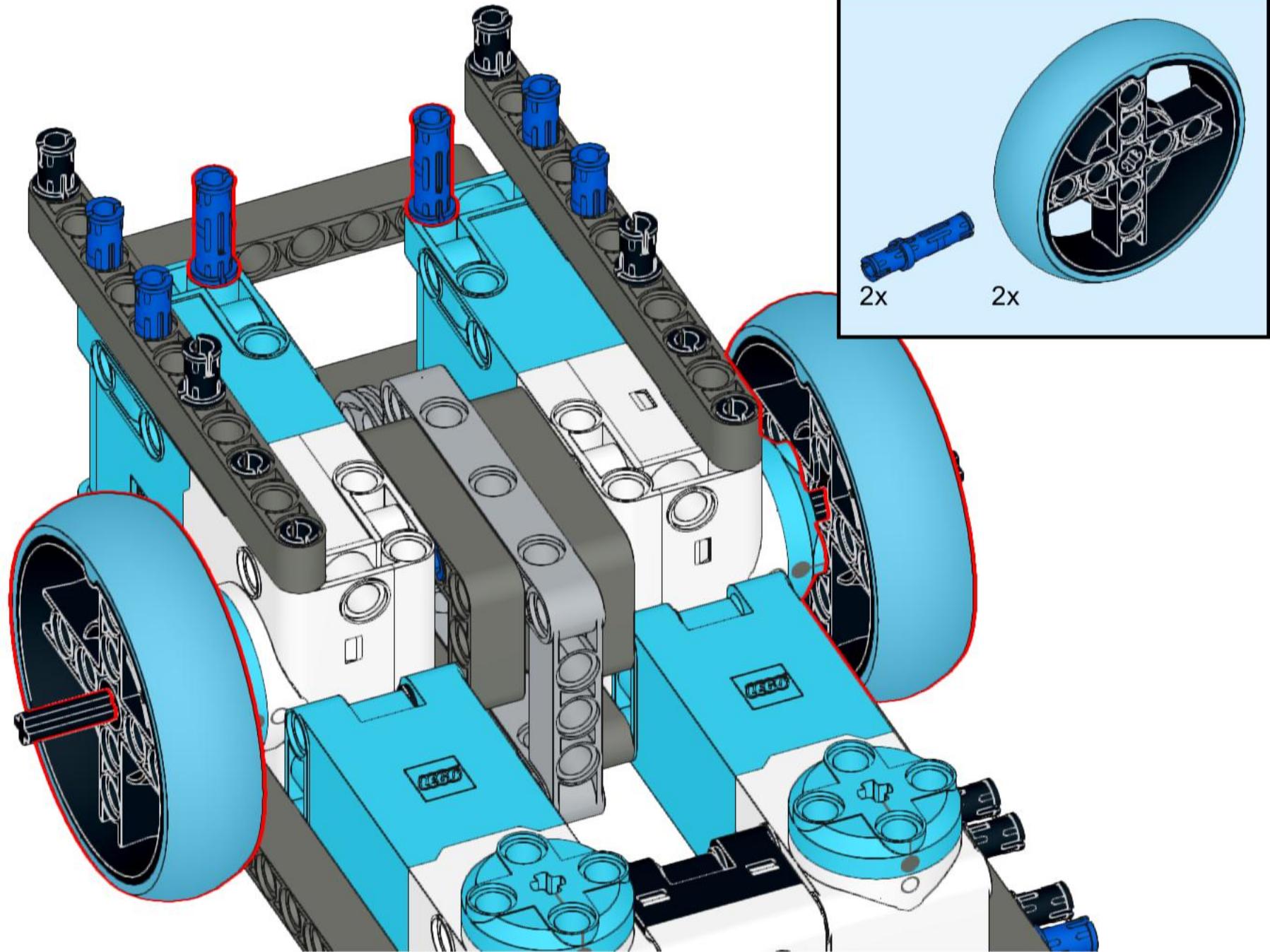
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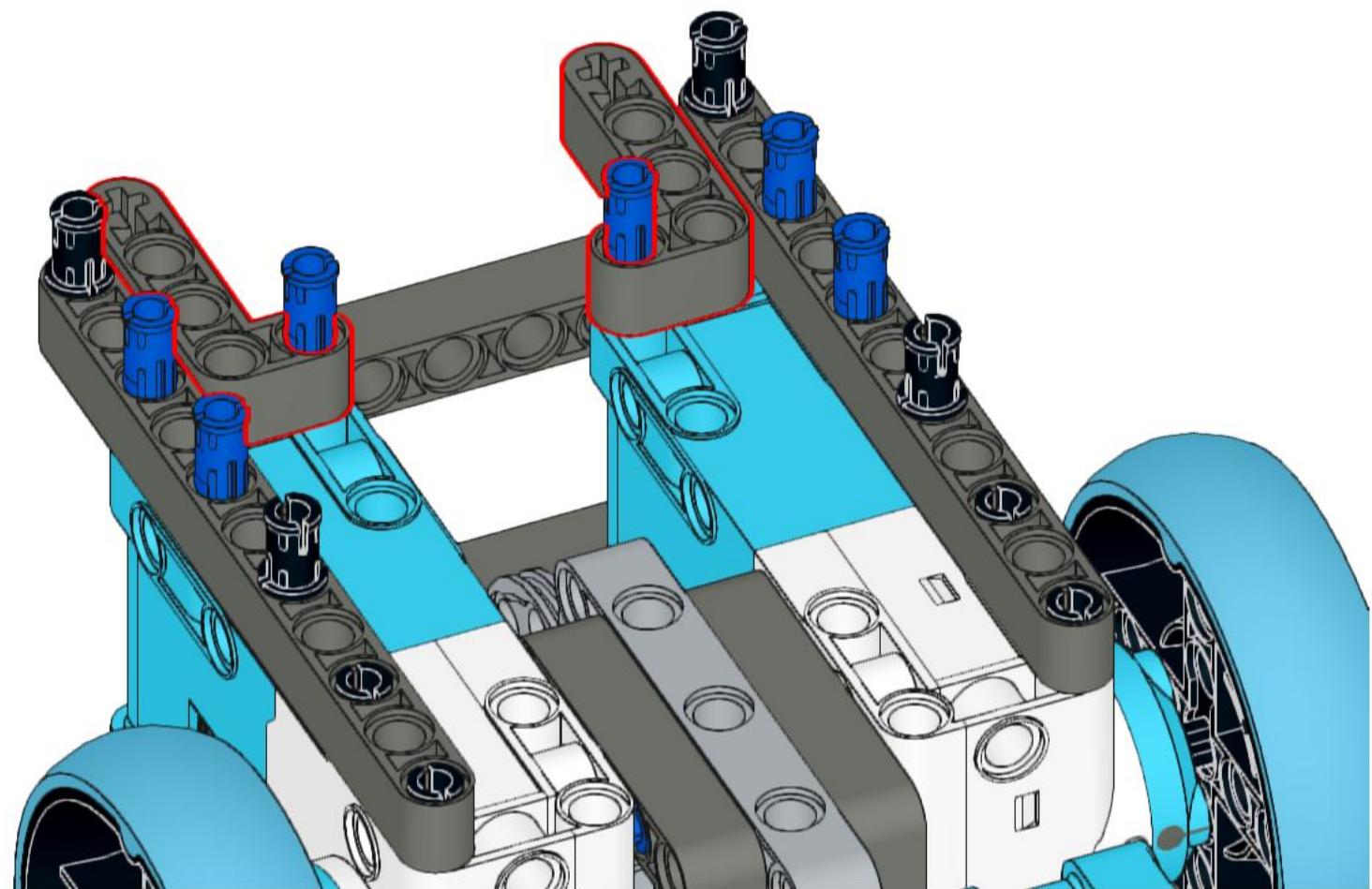
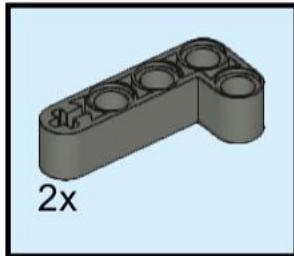


Tuck all three wires in through gaps here. Wires should go all the way through the back of the robot. May have to disassemble slightly to get them in.

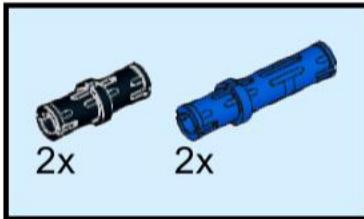
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36

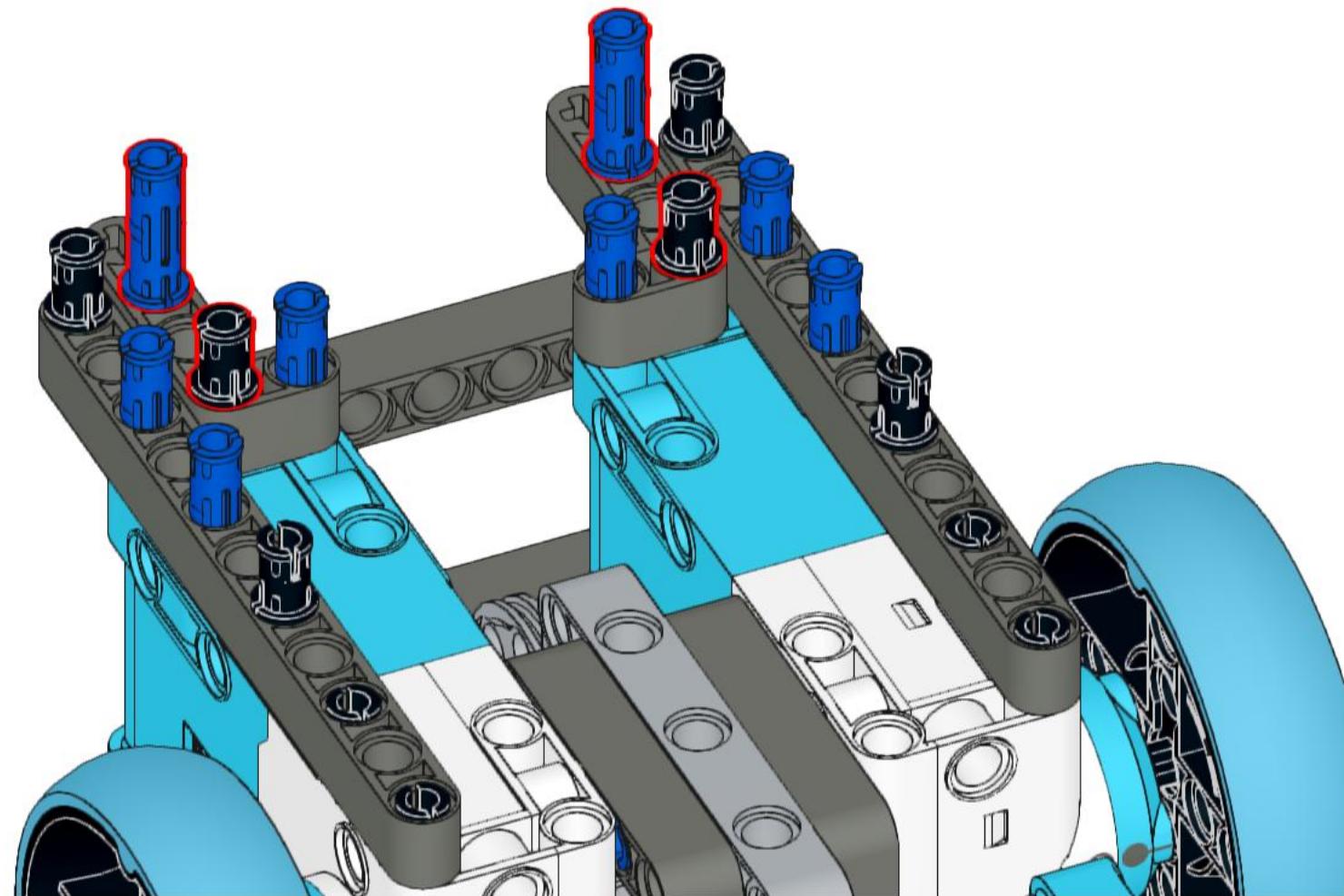


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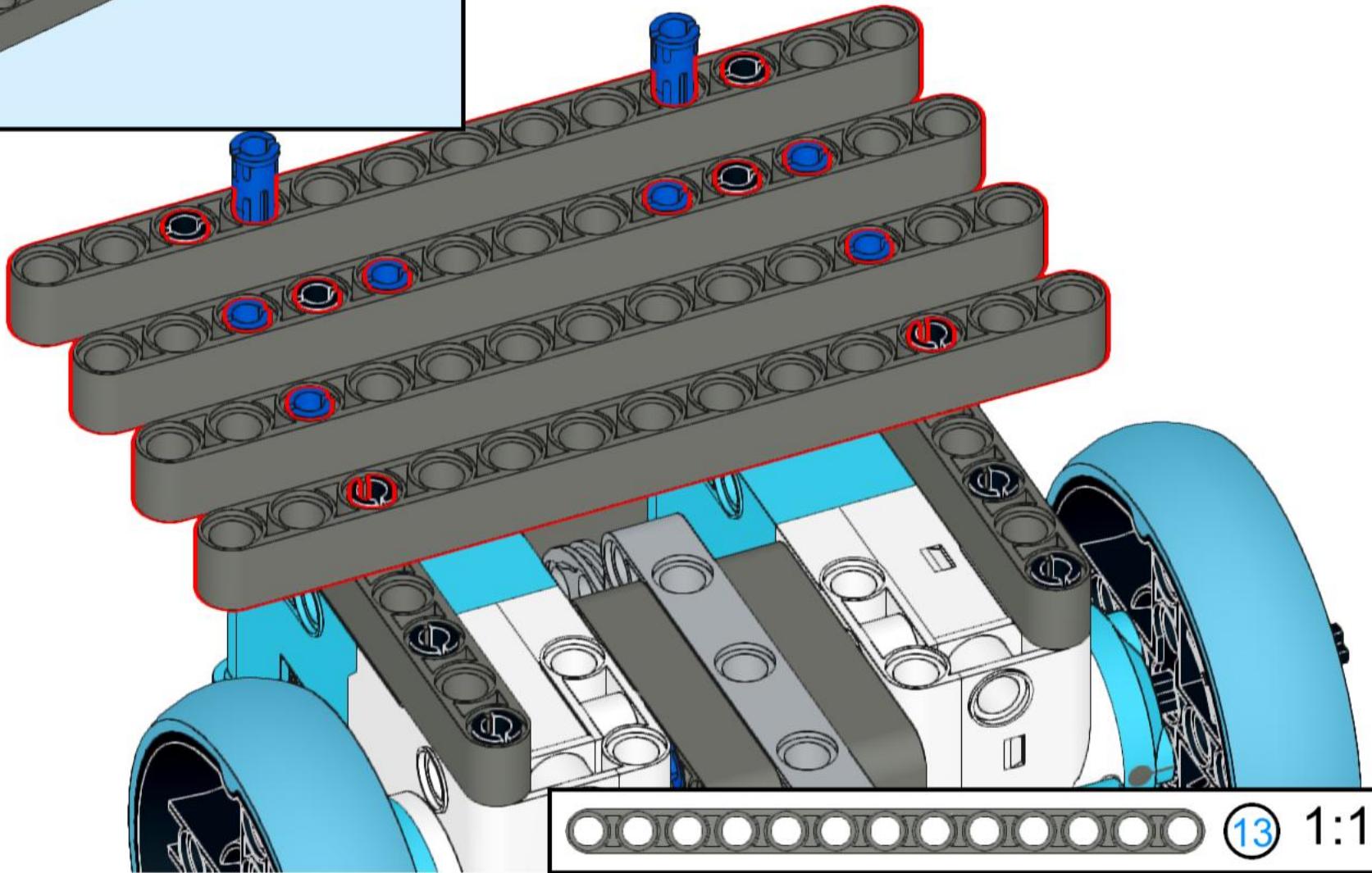
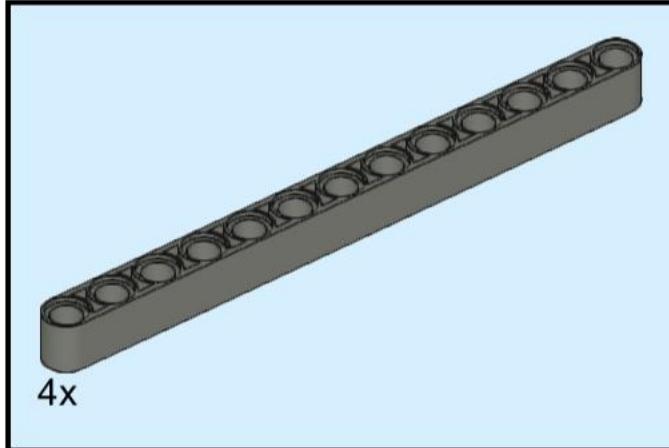


2x

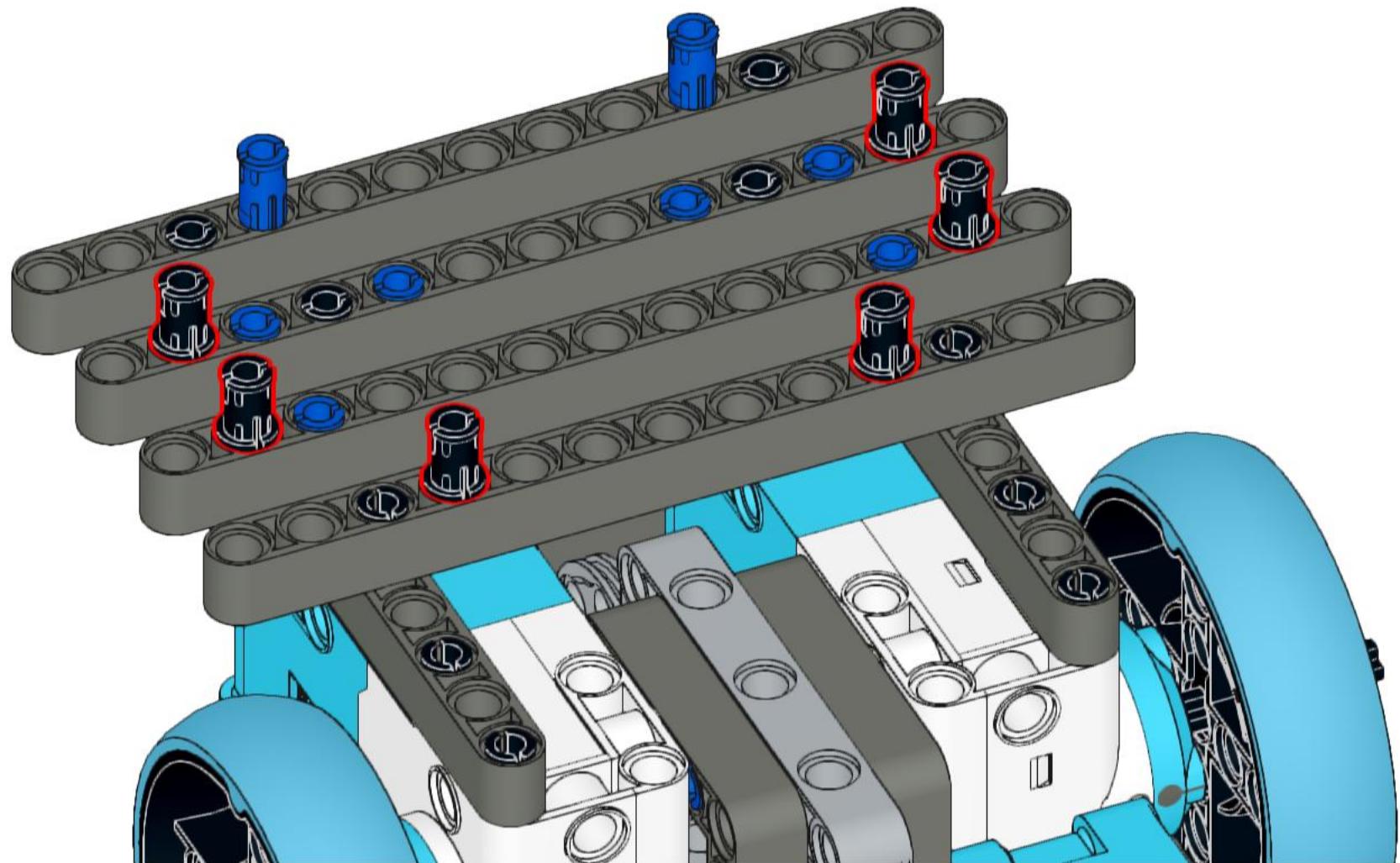
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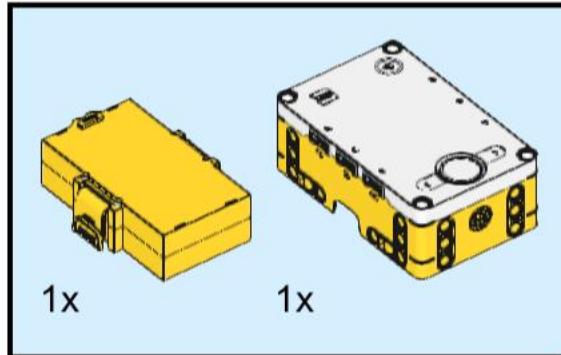
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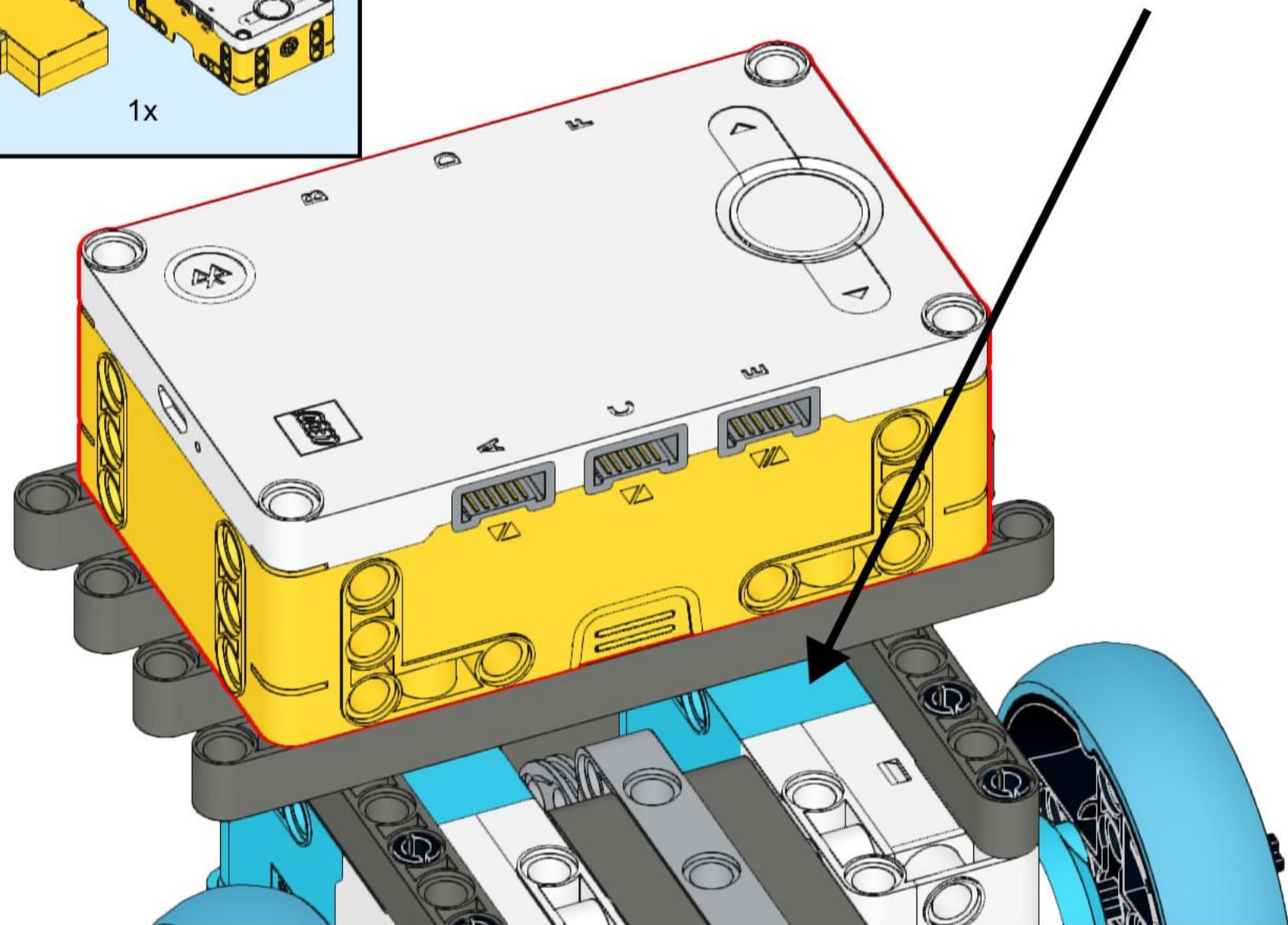
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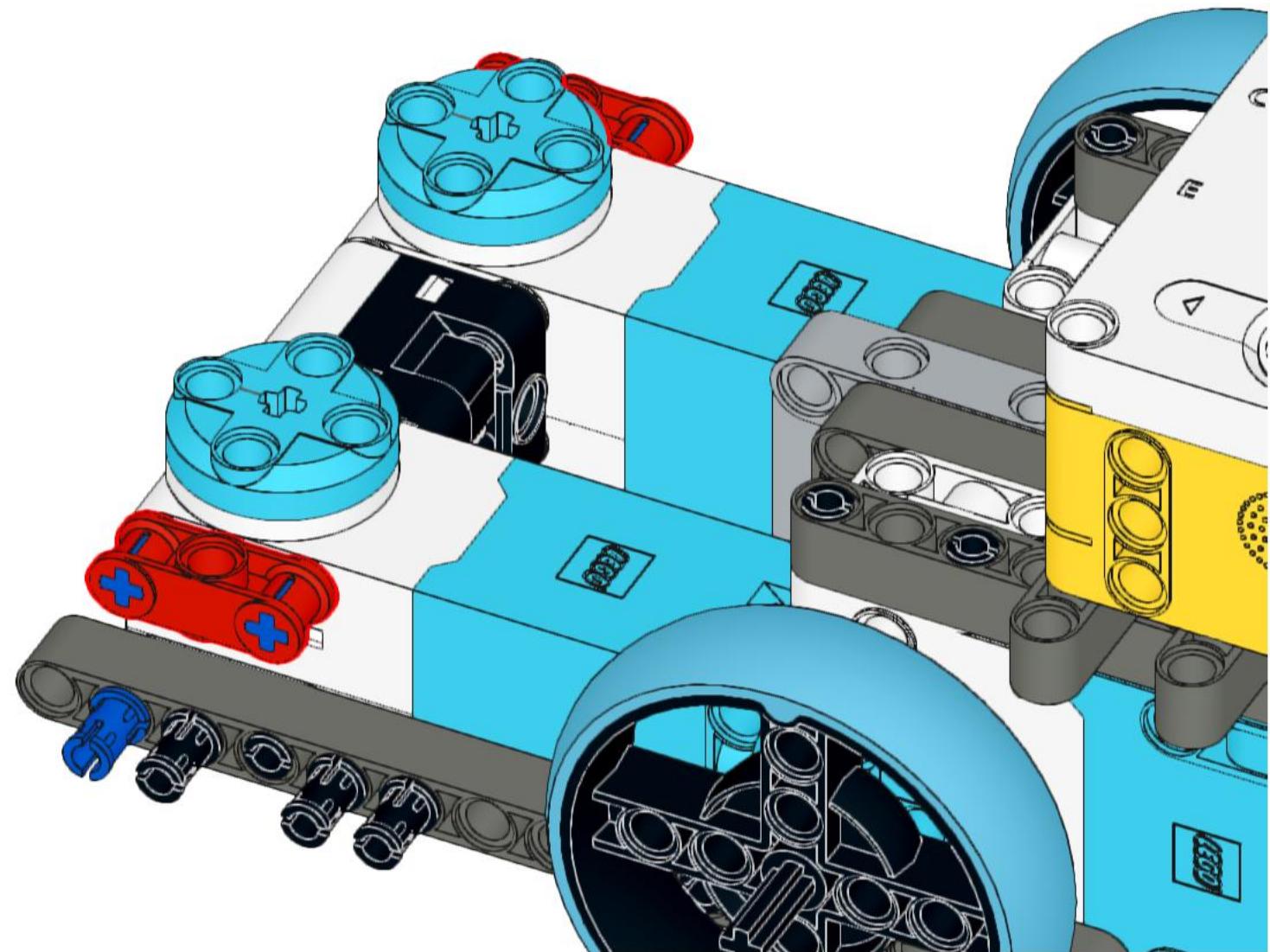
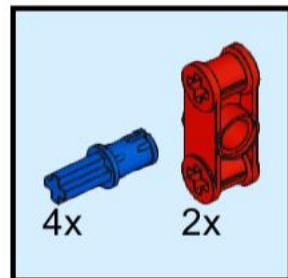
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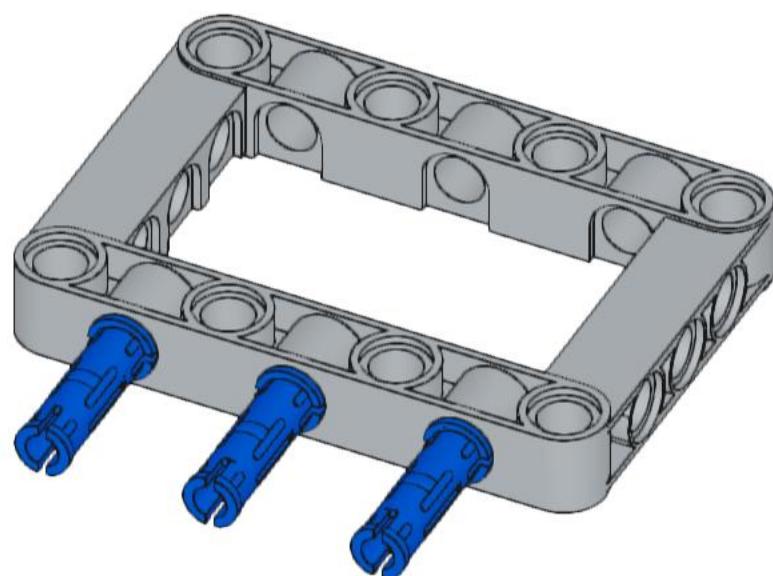
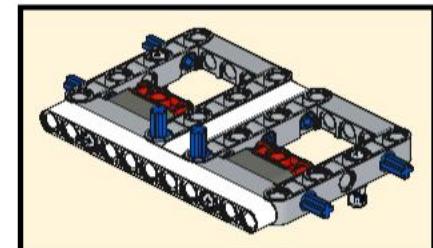
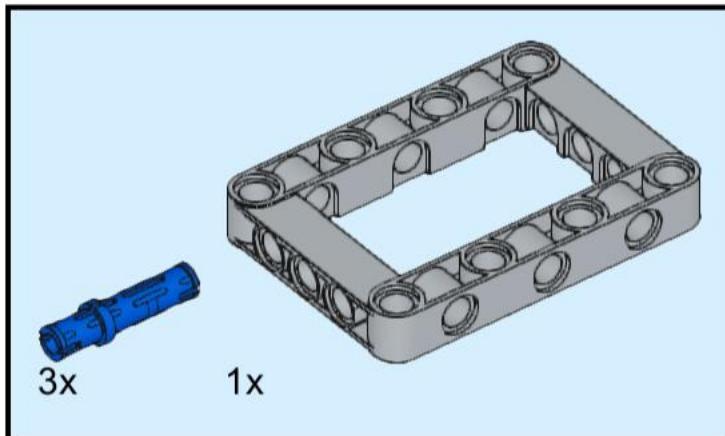
Drive motor wires will pass under the hub and out the front in this area



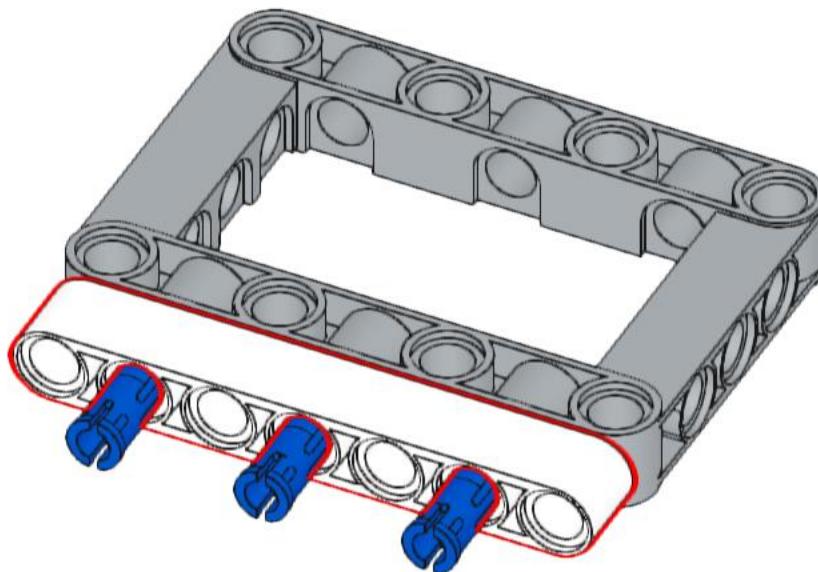
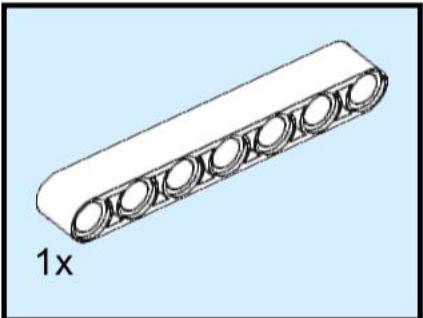
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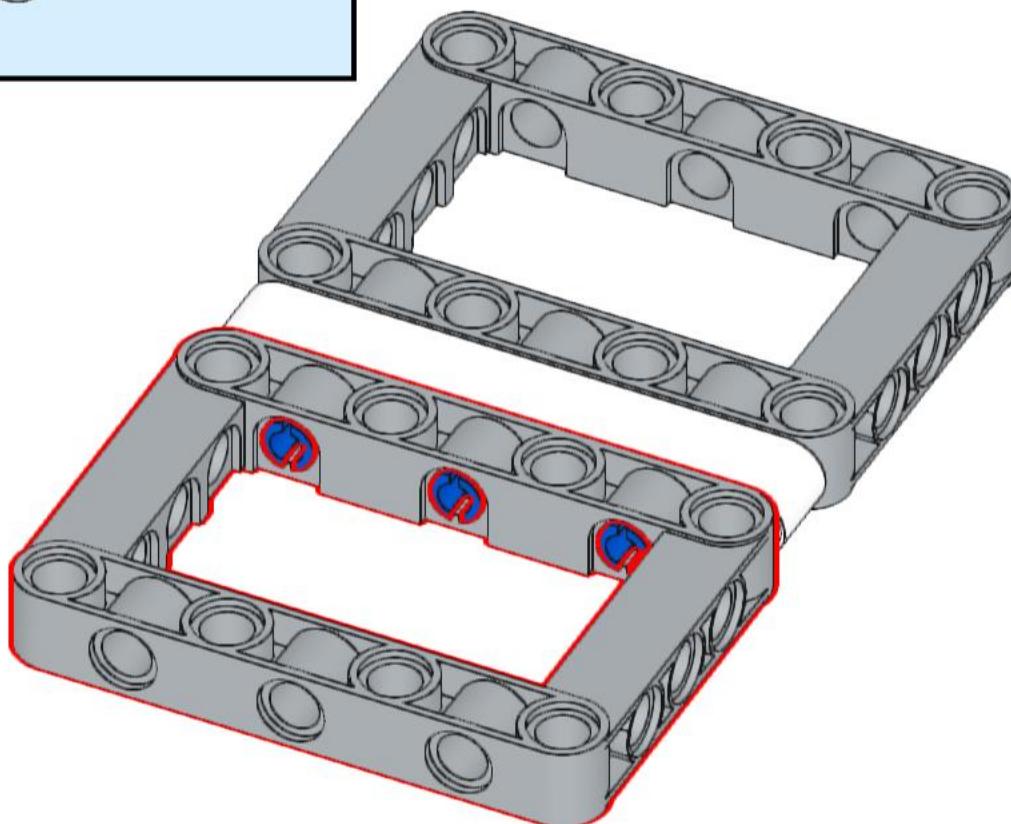
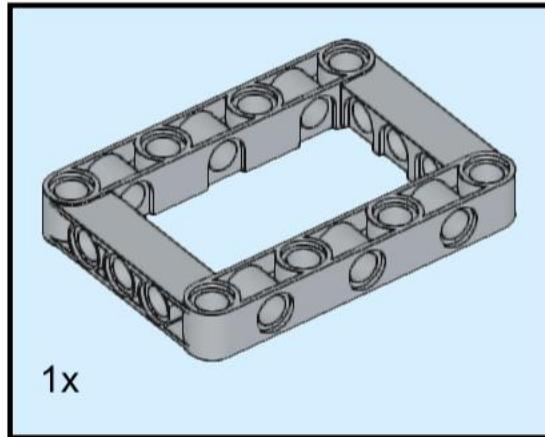
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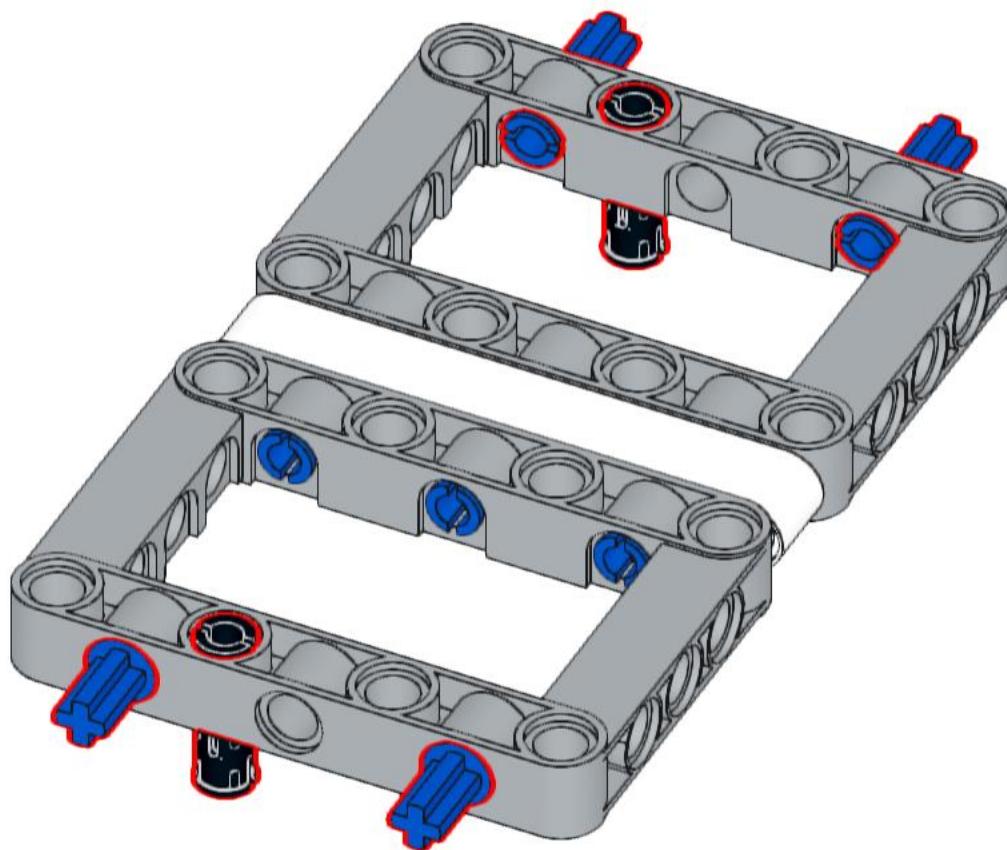
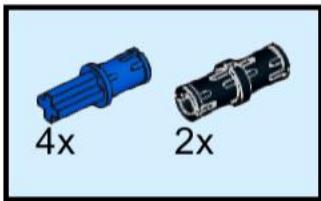
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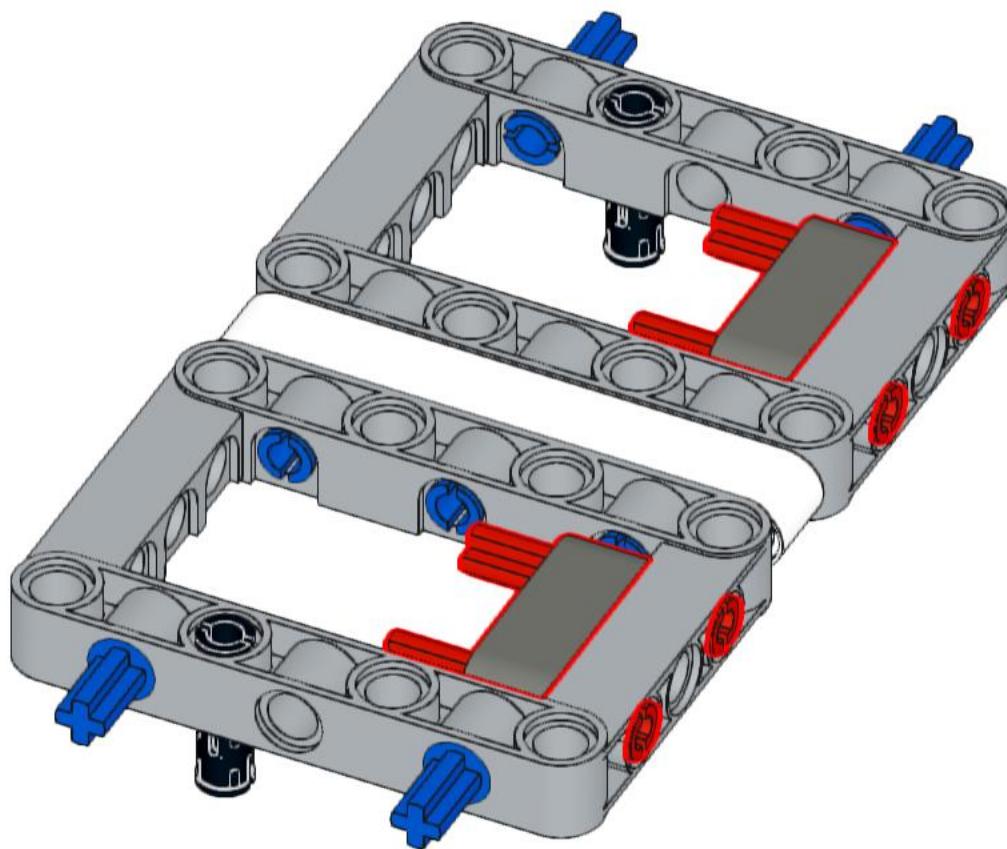
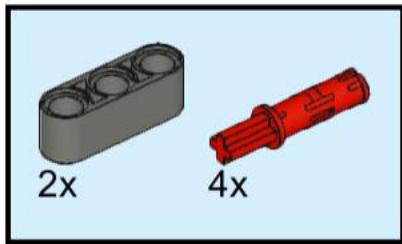
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45



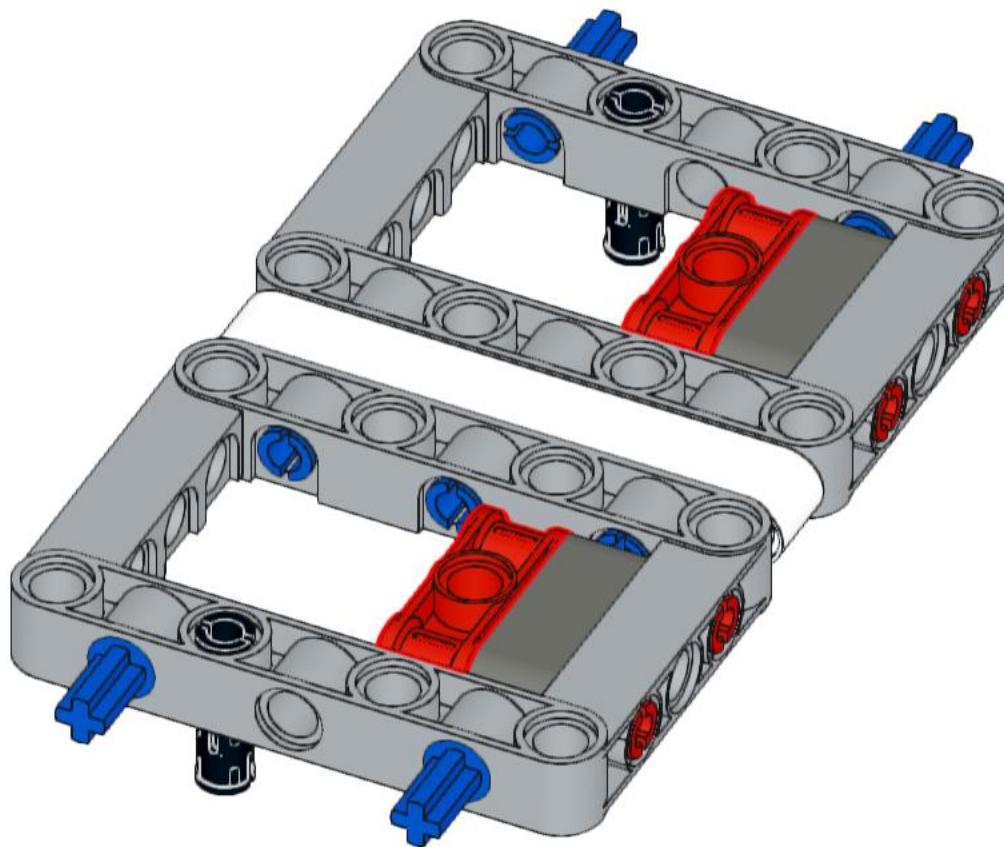
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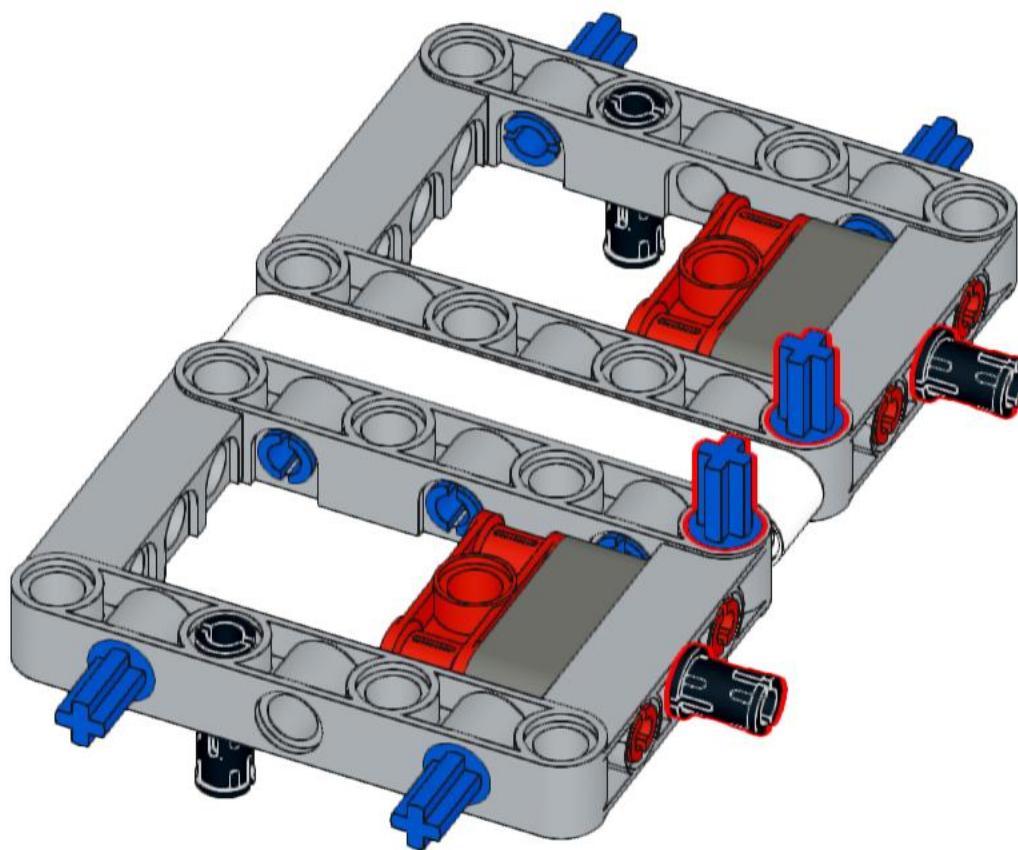
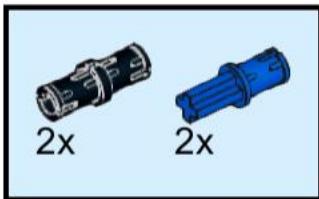
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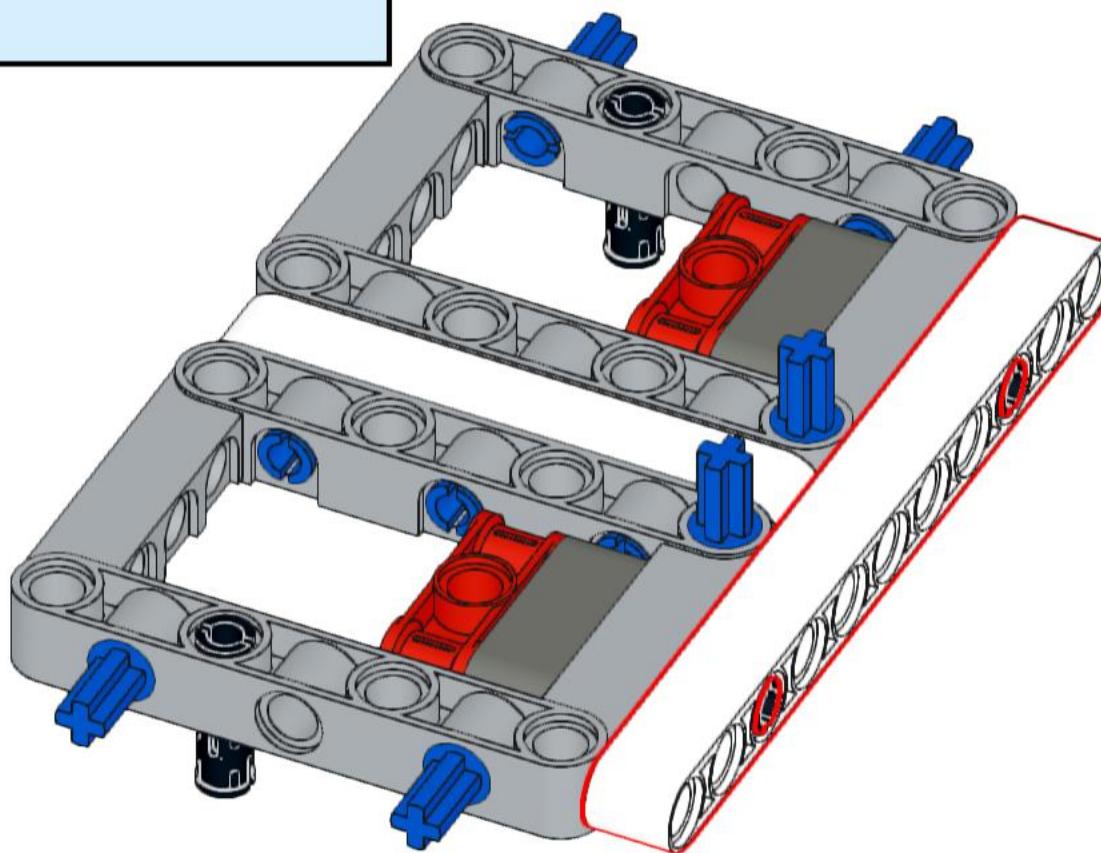
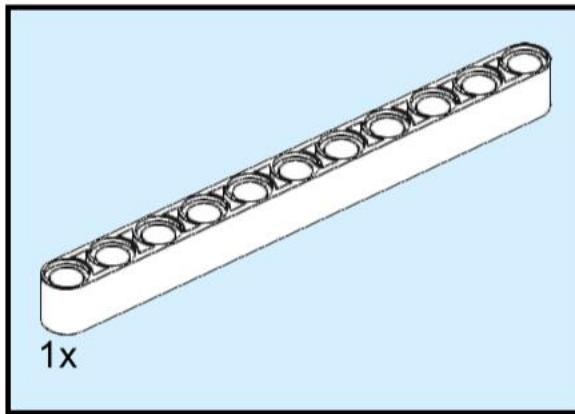
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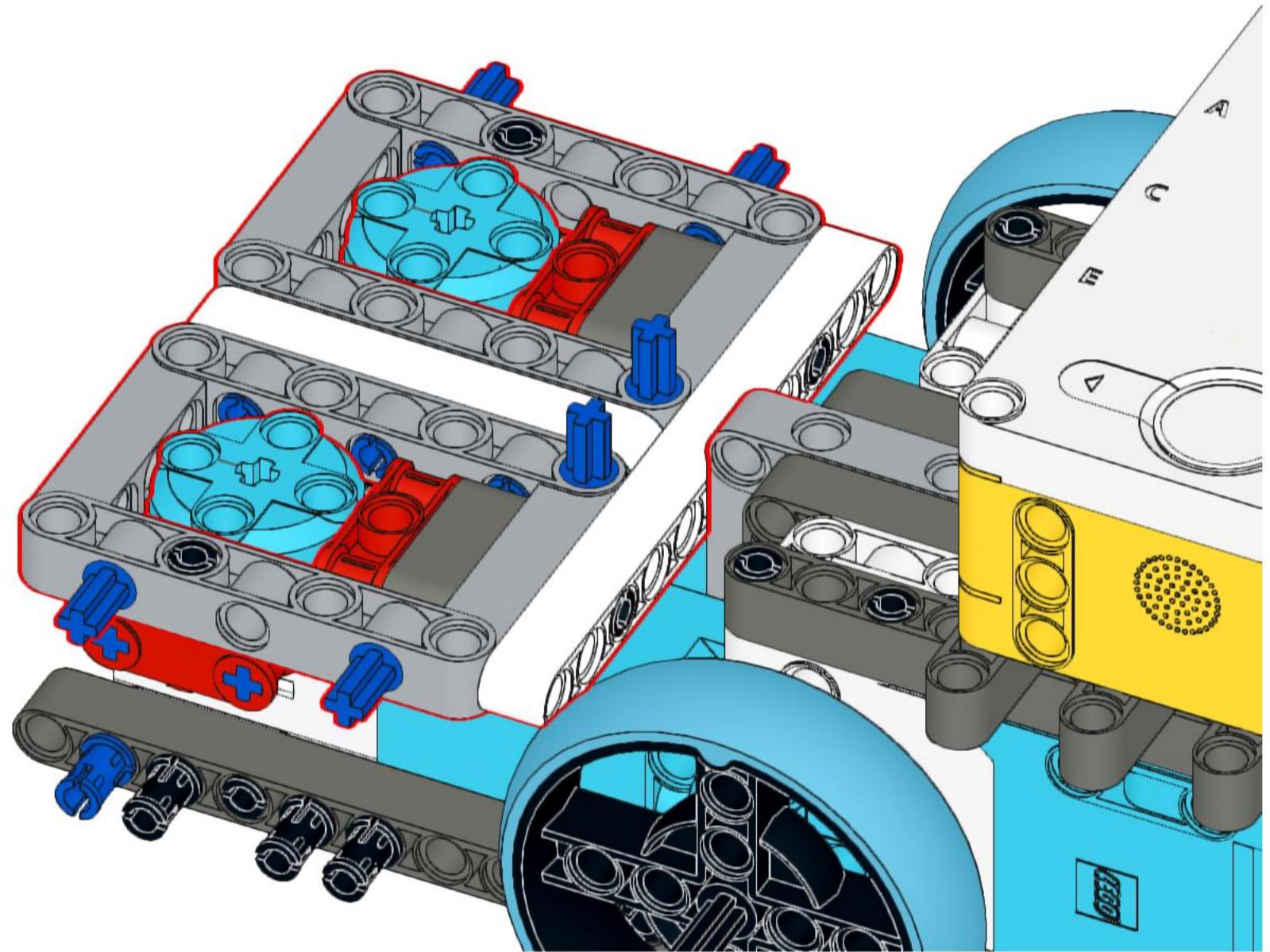


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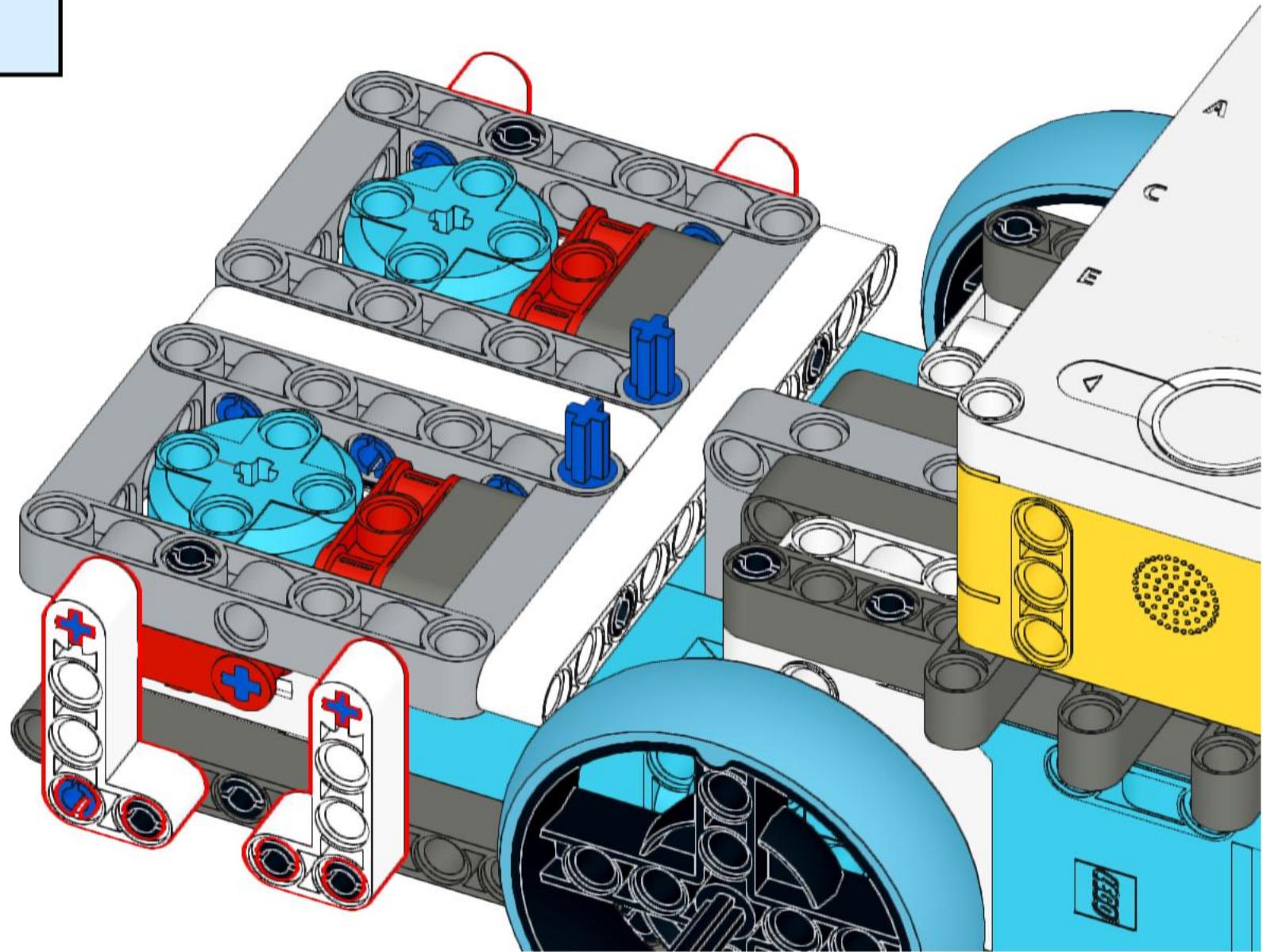
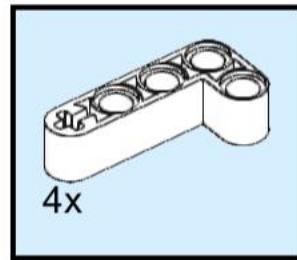


11 1:1

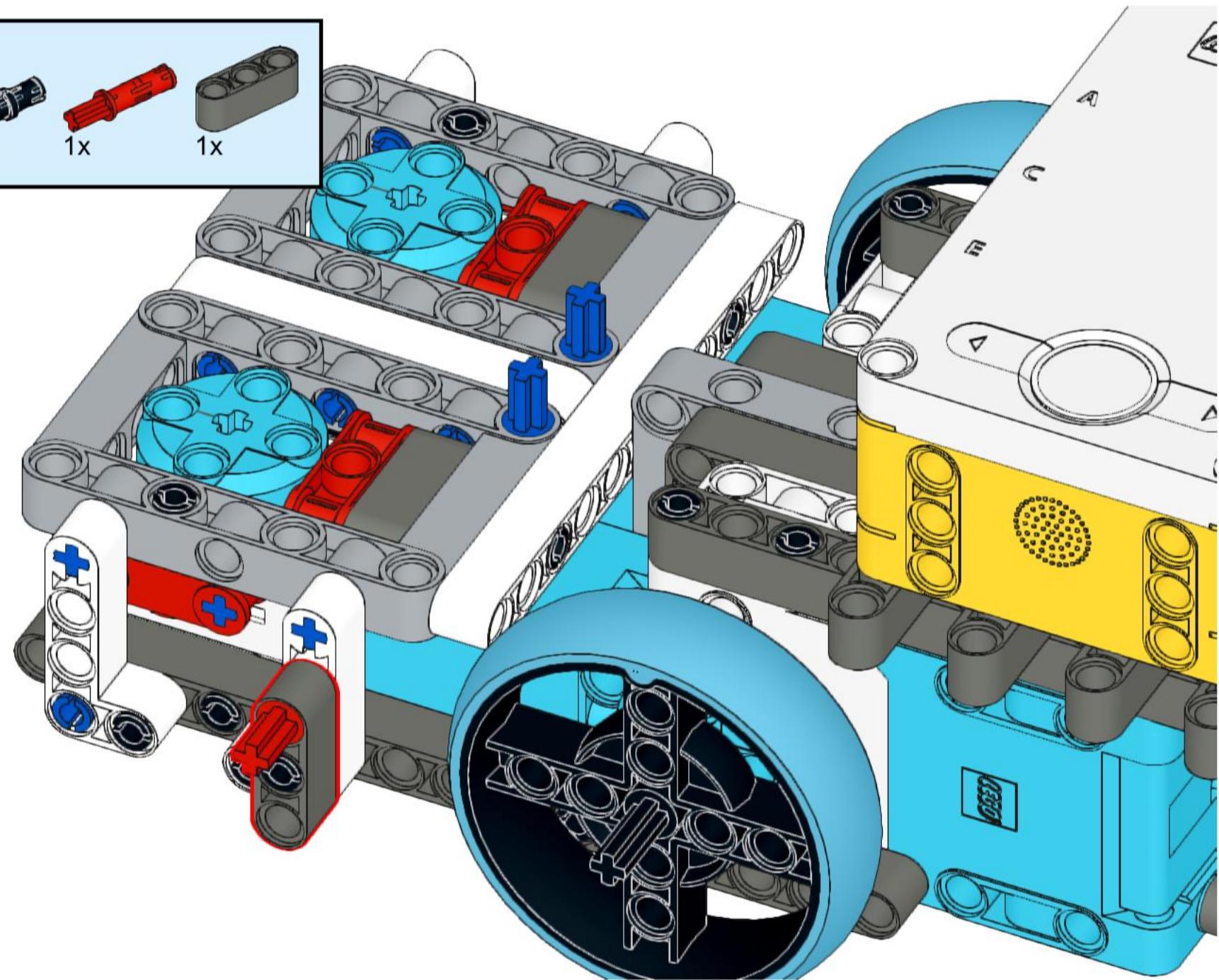
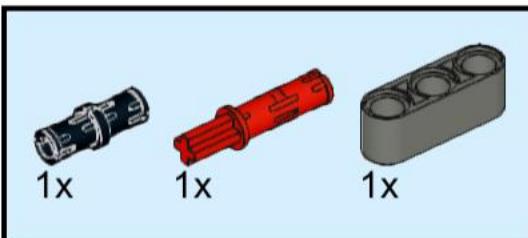
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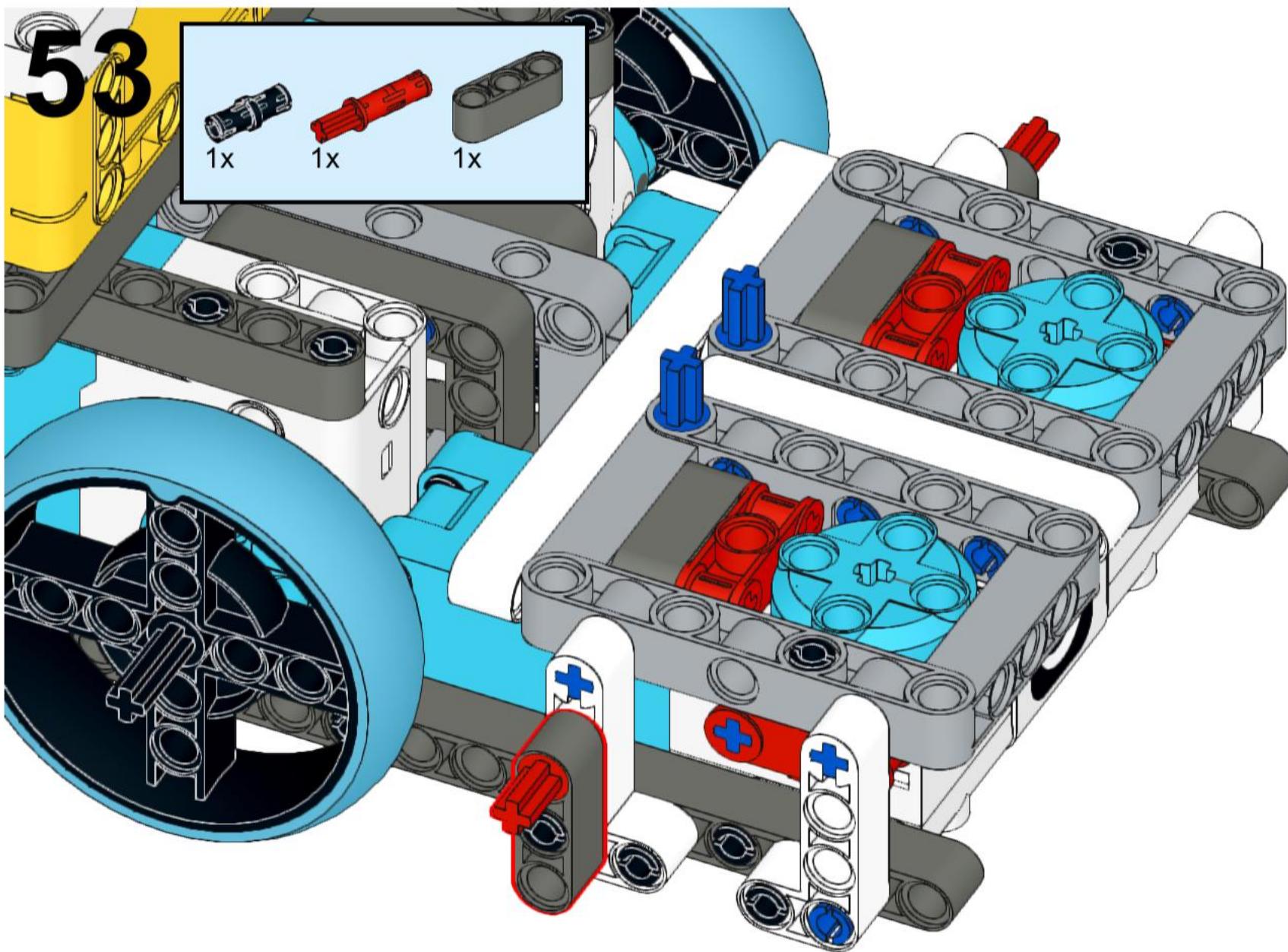
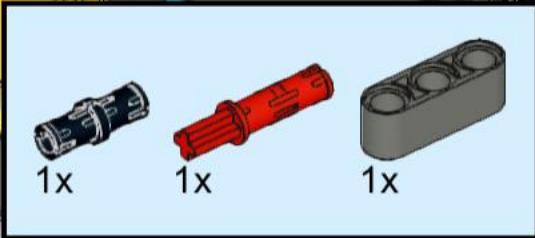
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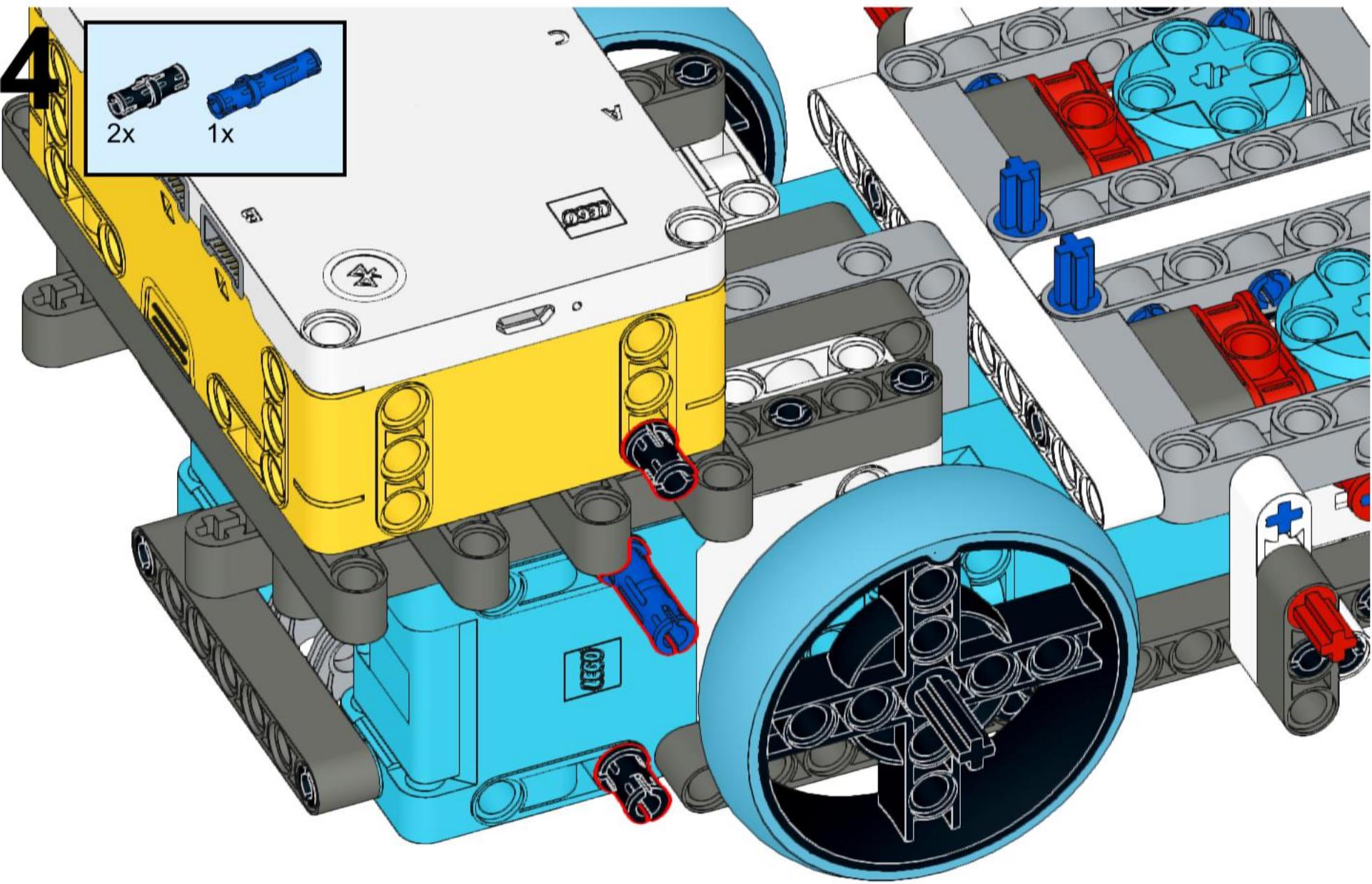
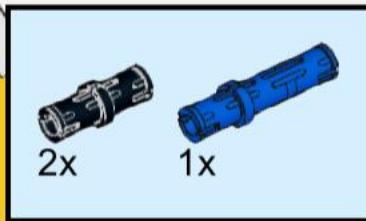
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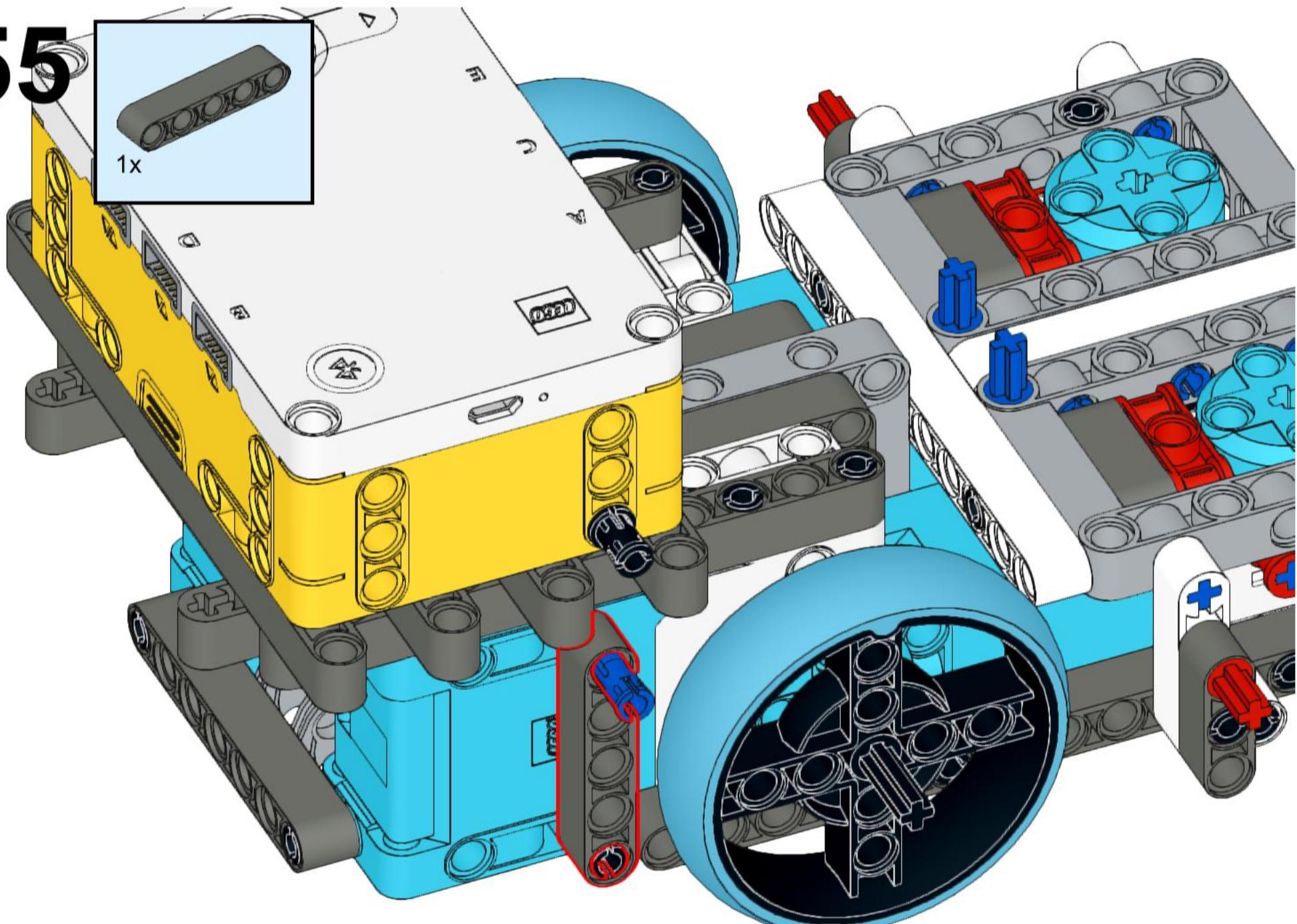
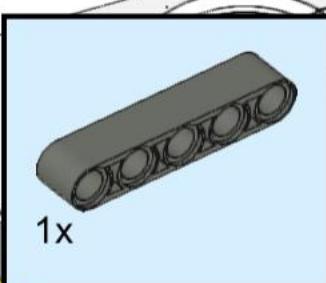
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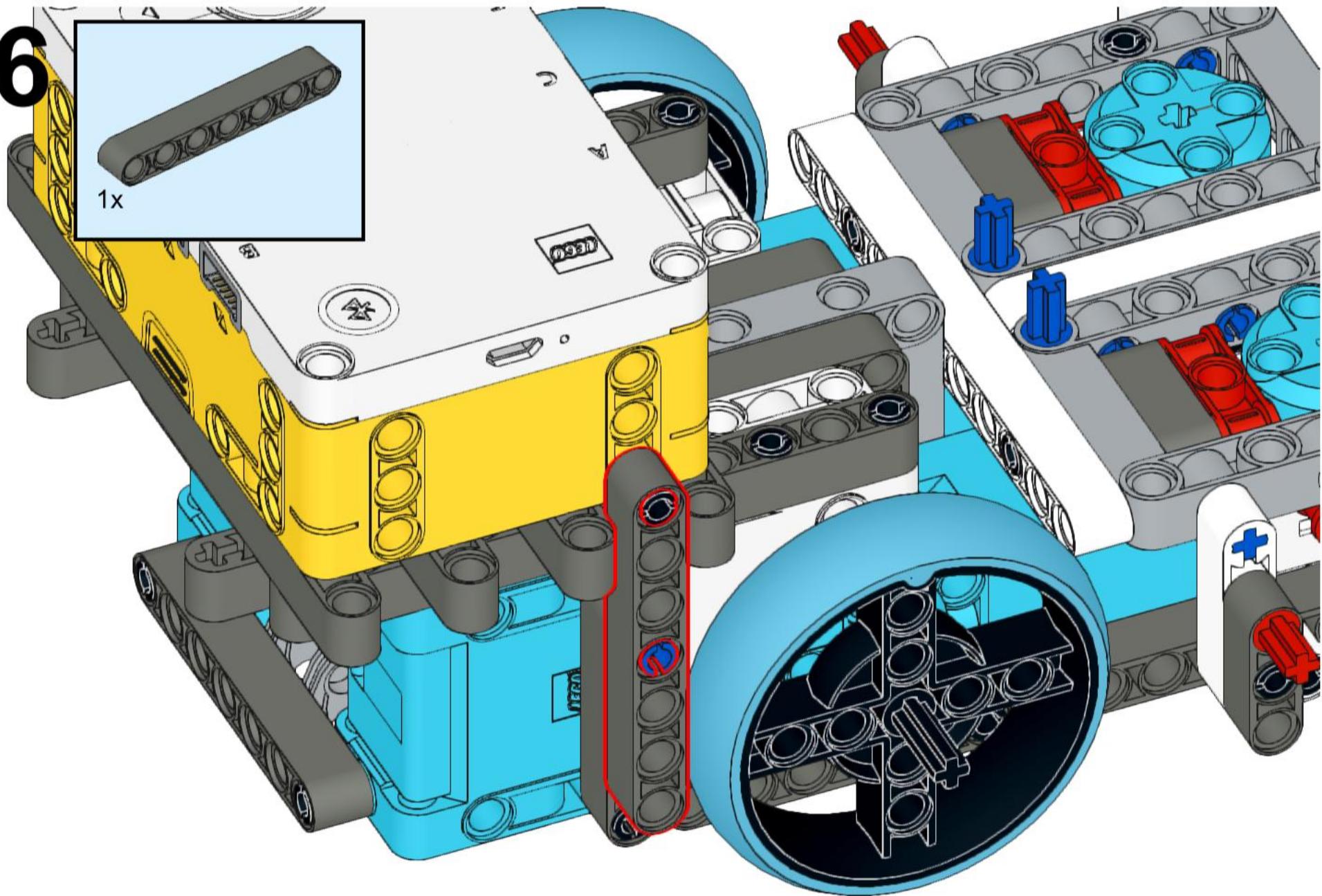
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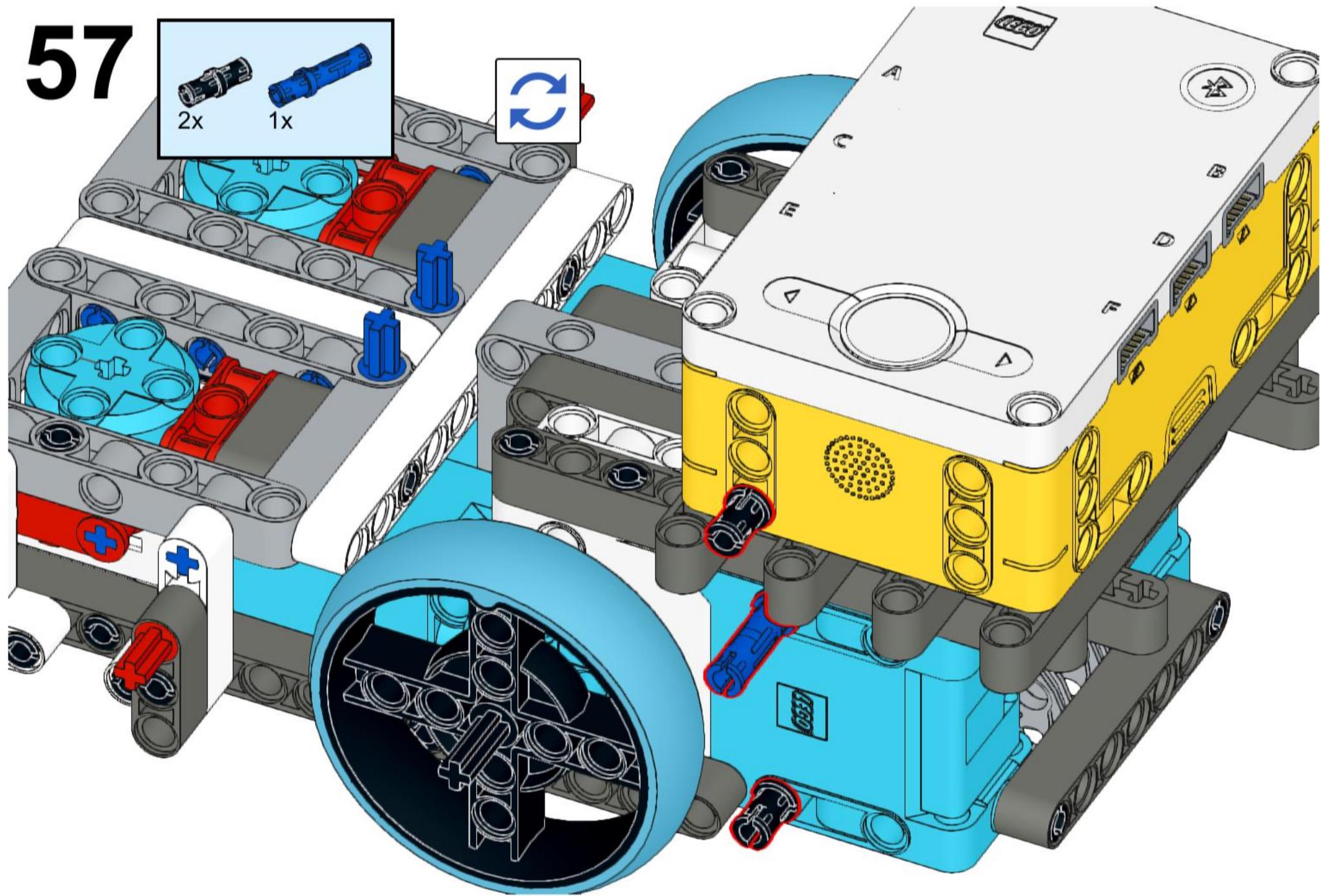
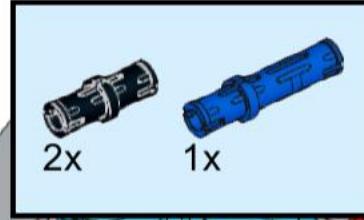
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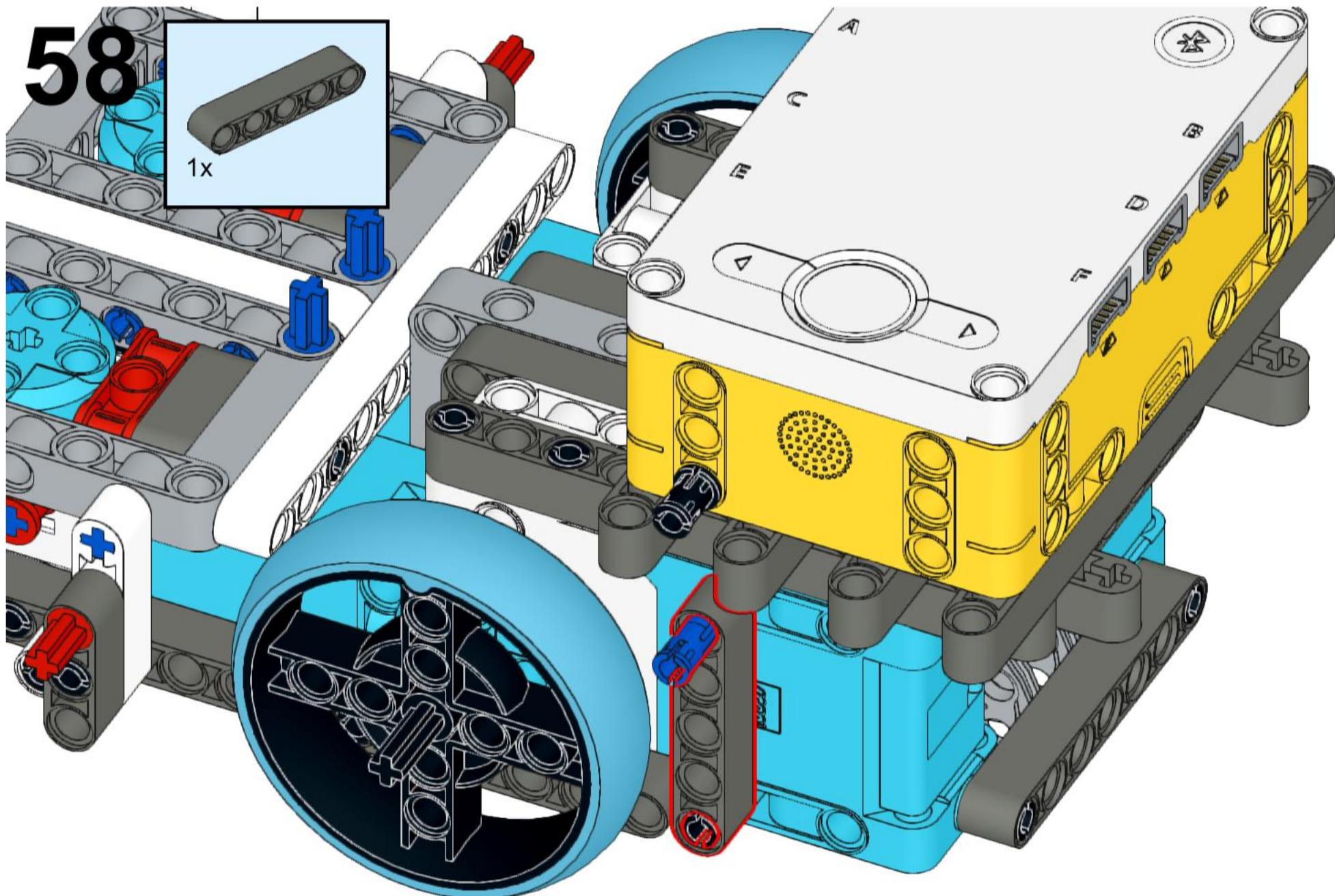
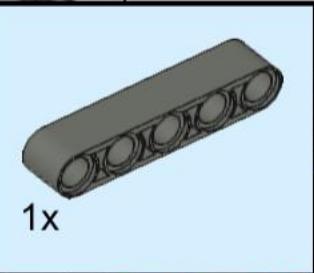
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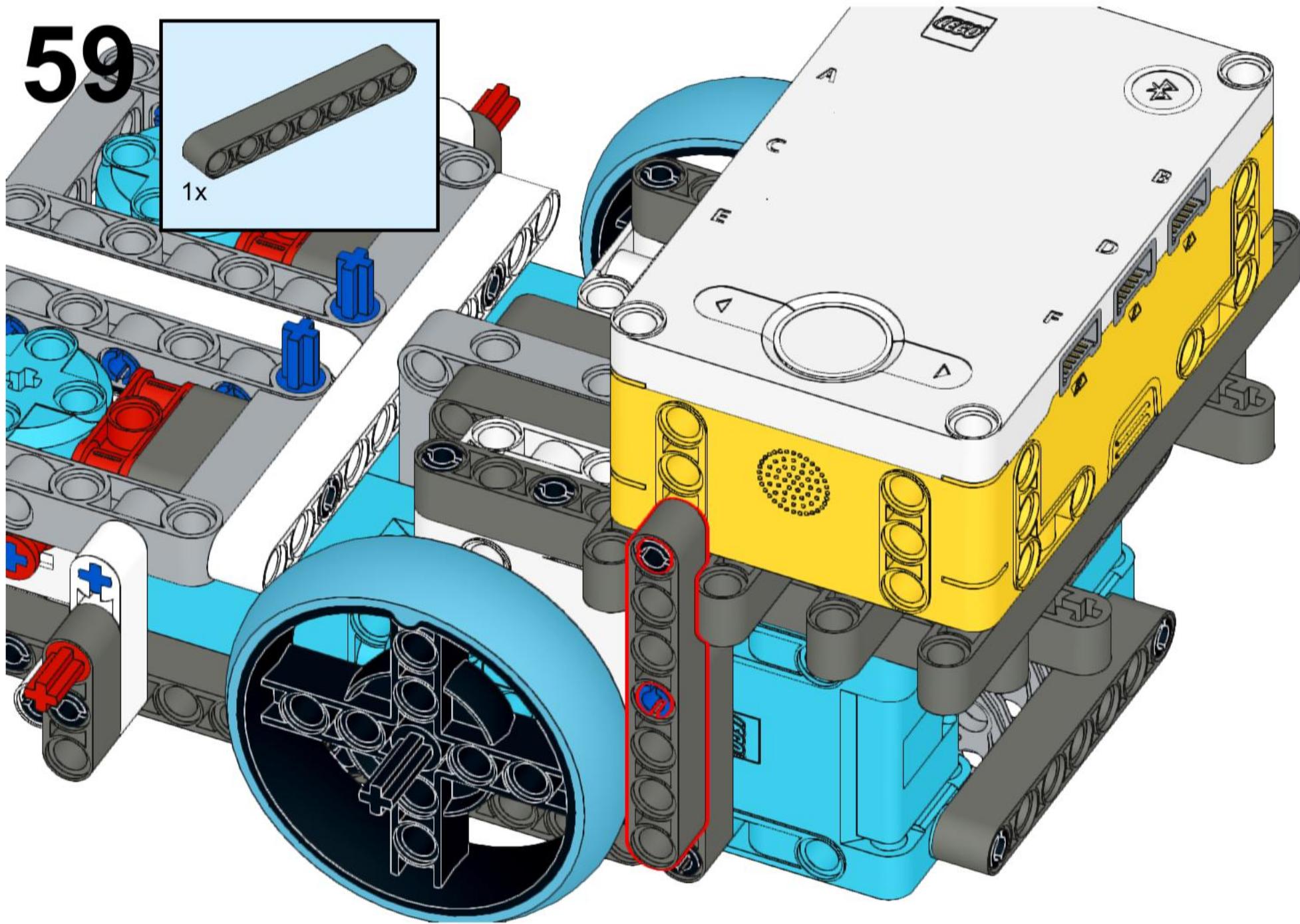
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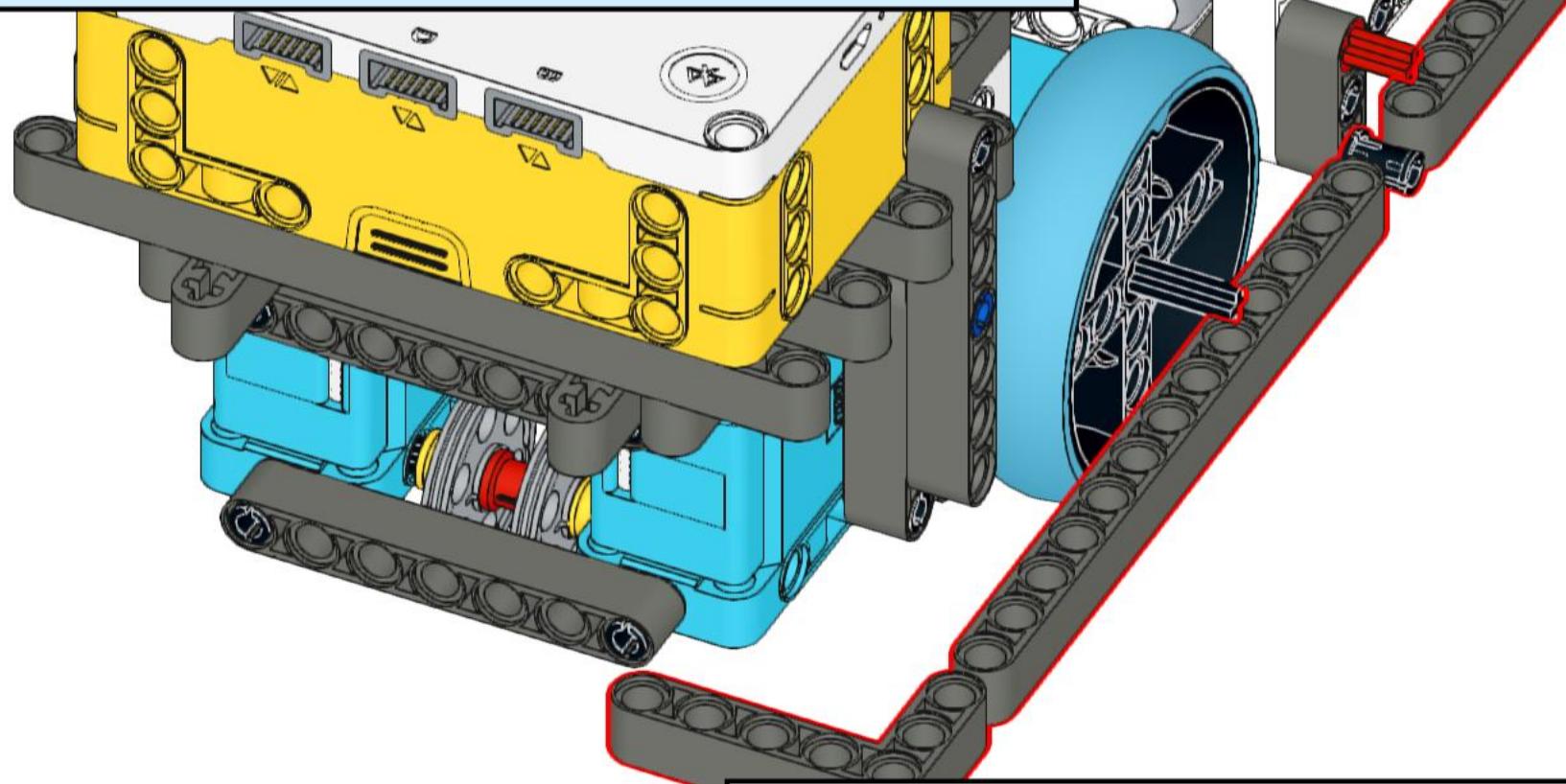
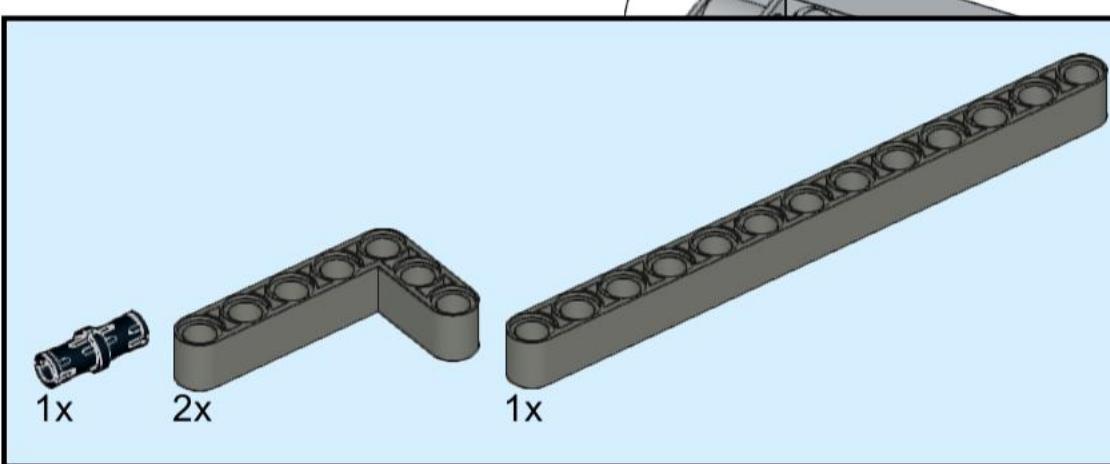
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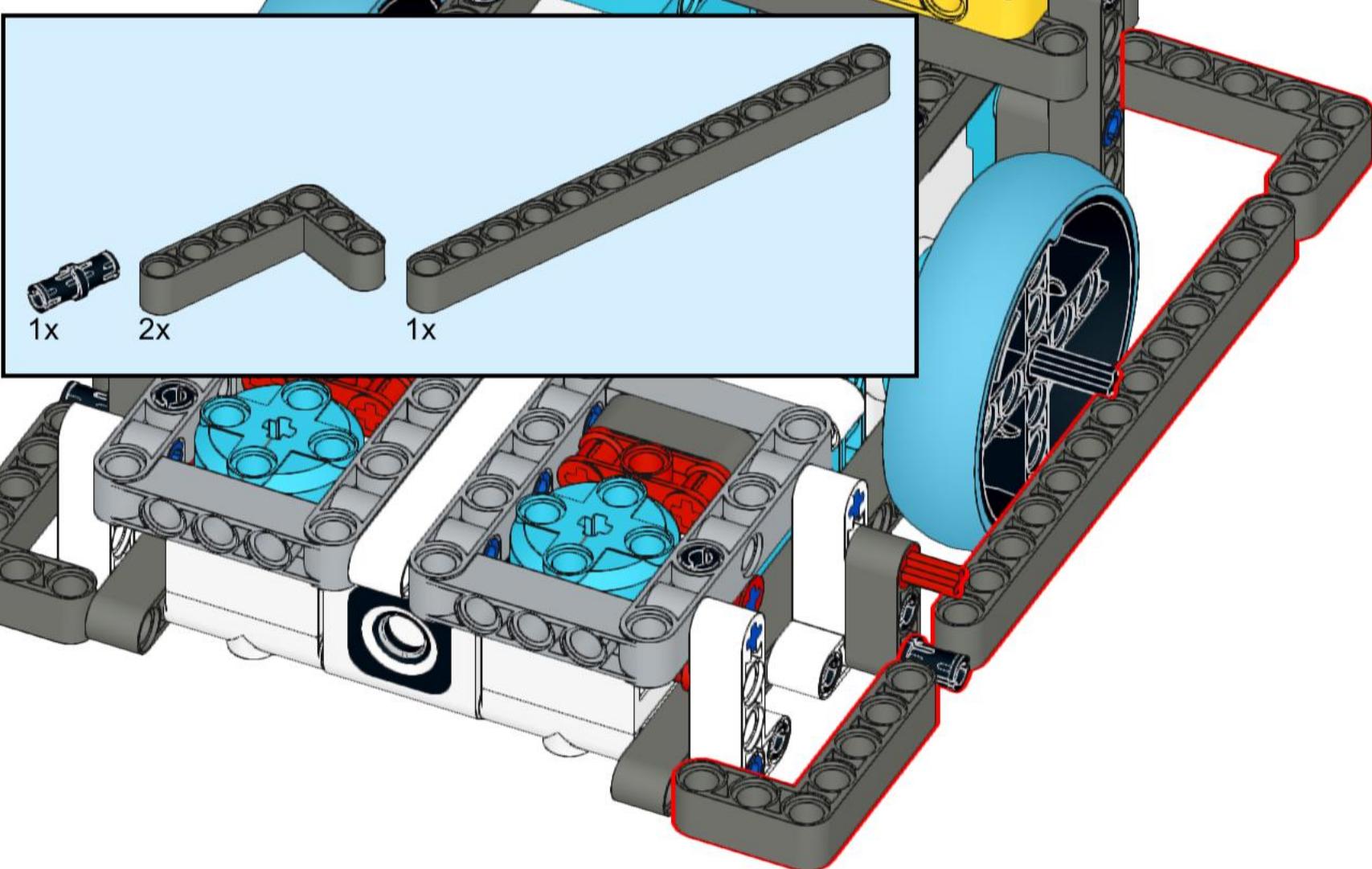


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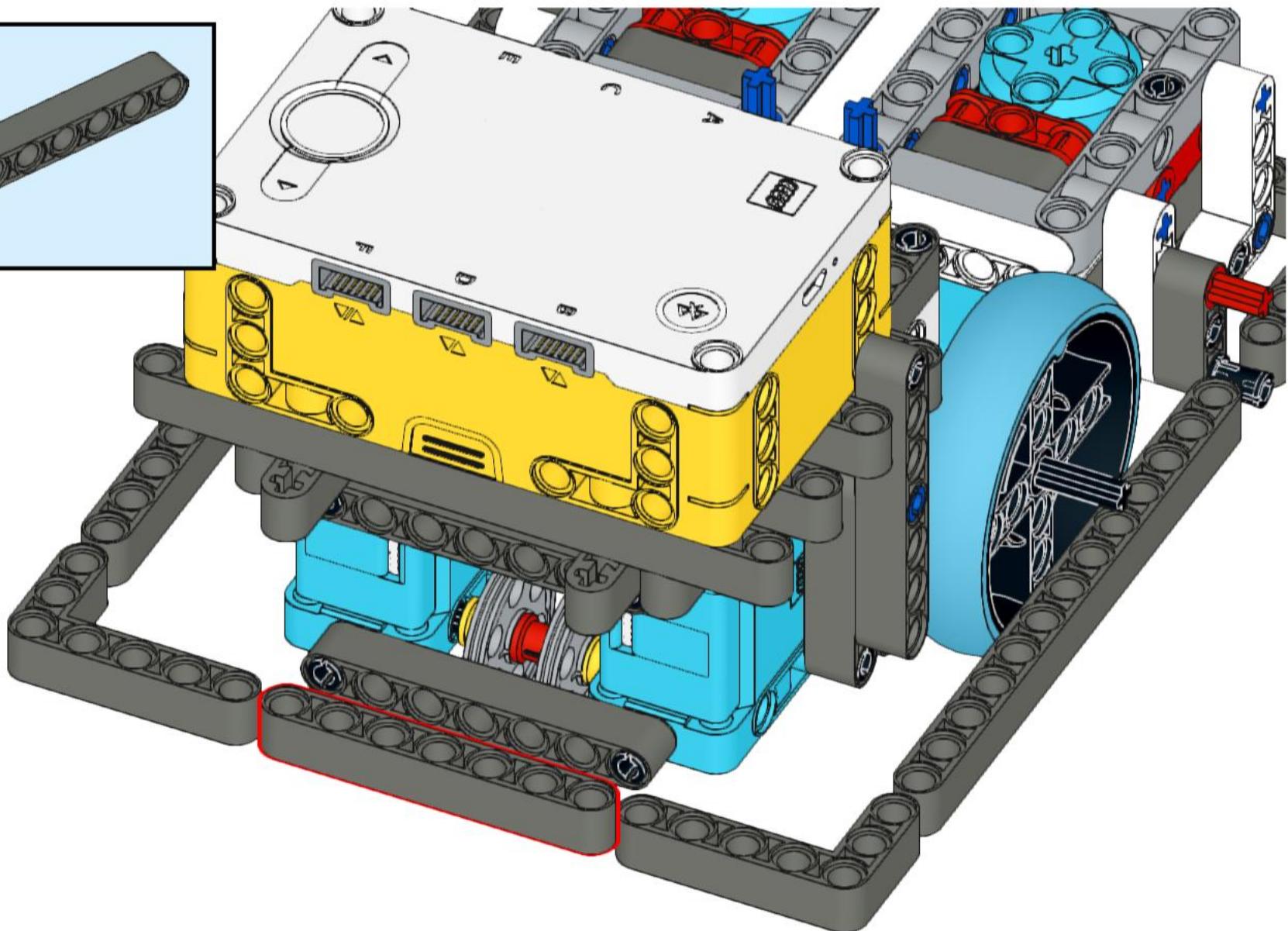
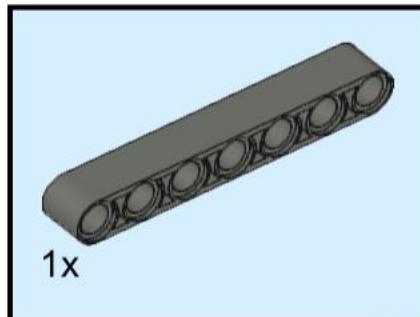


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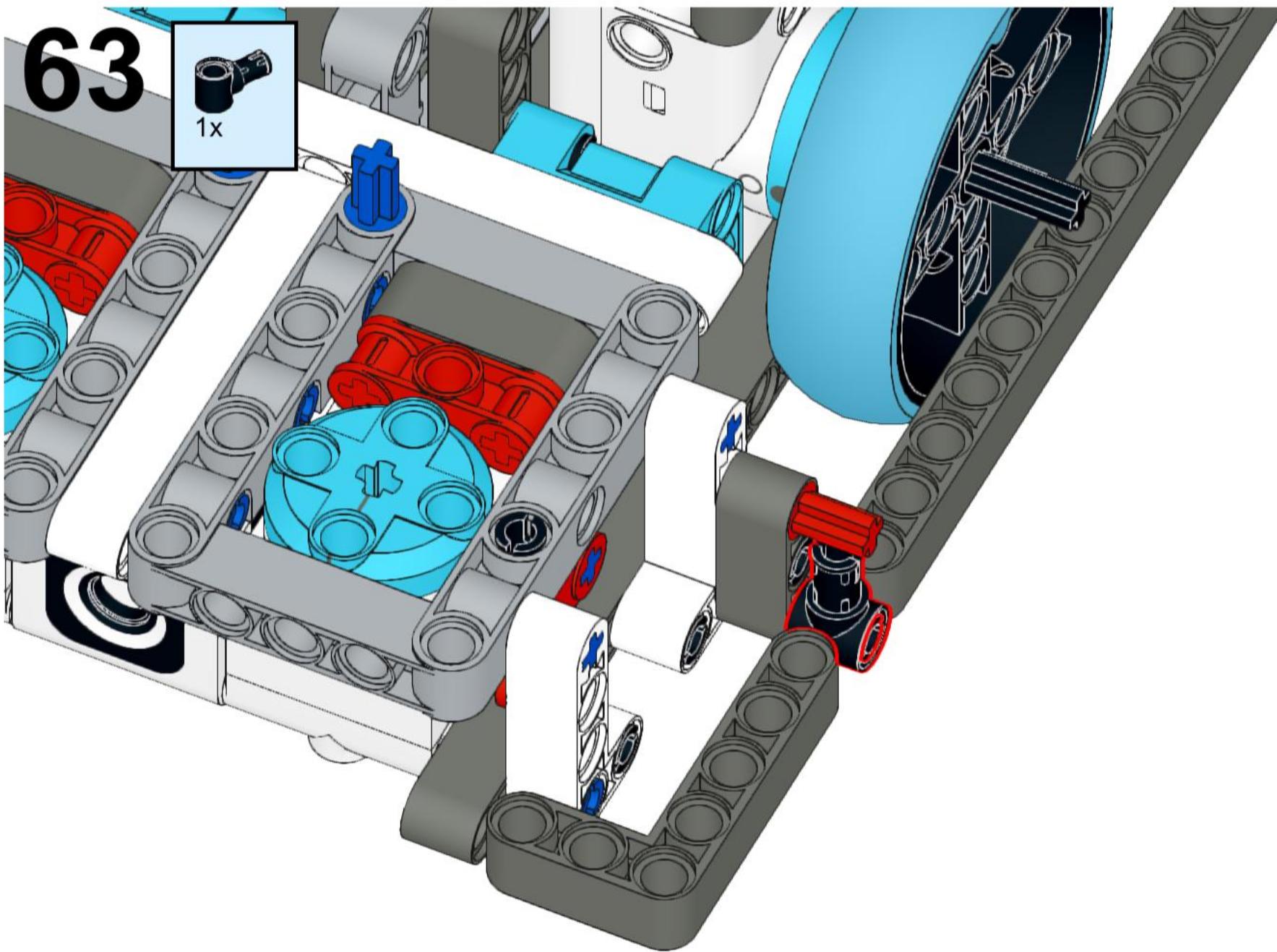
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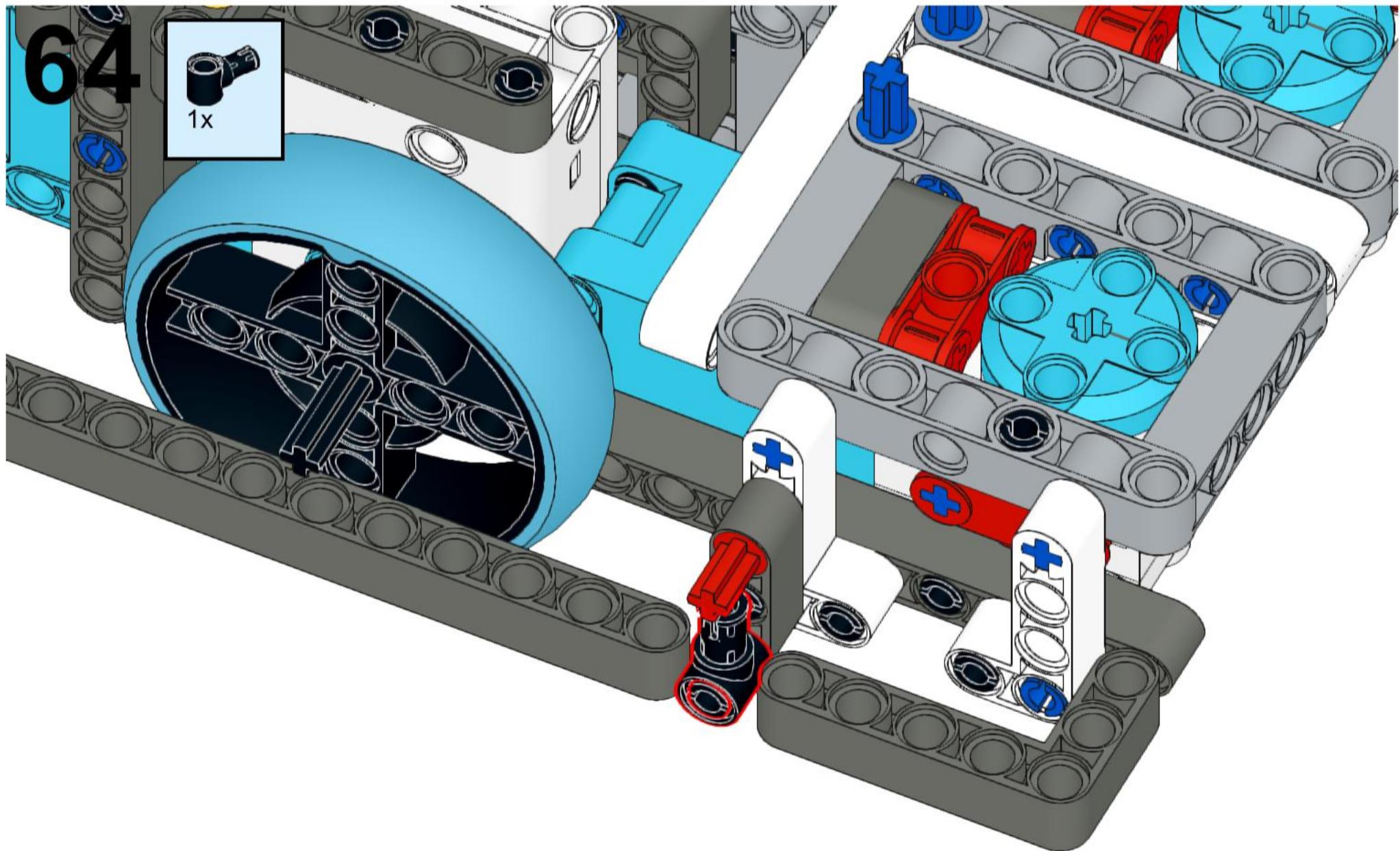
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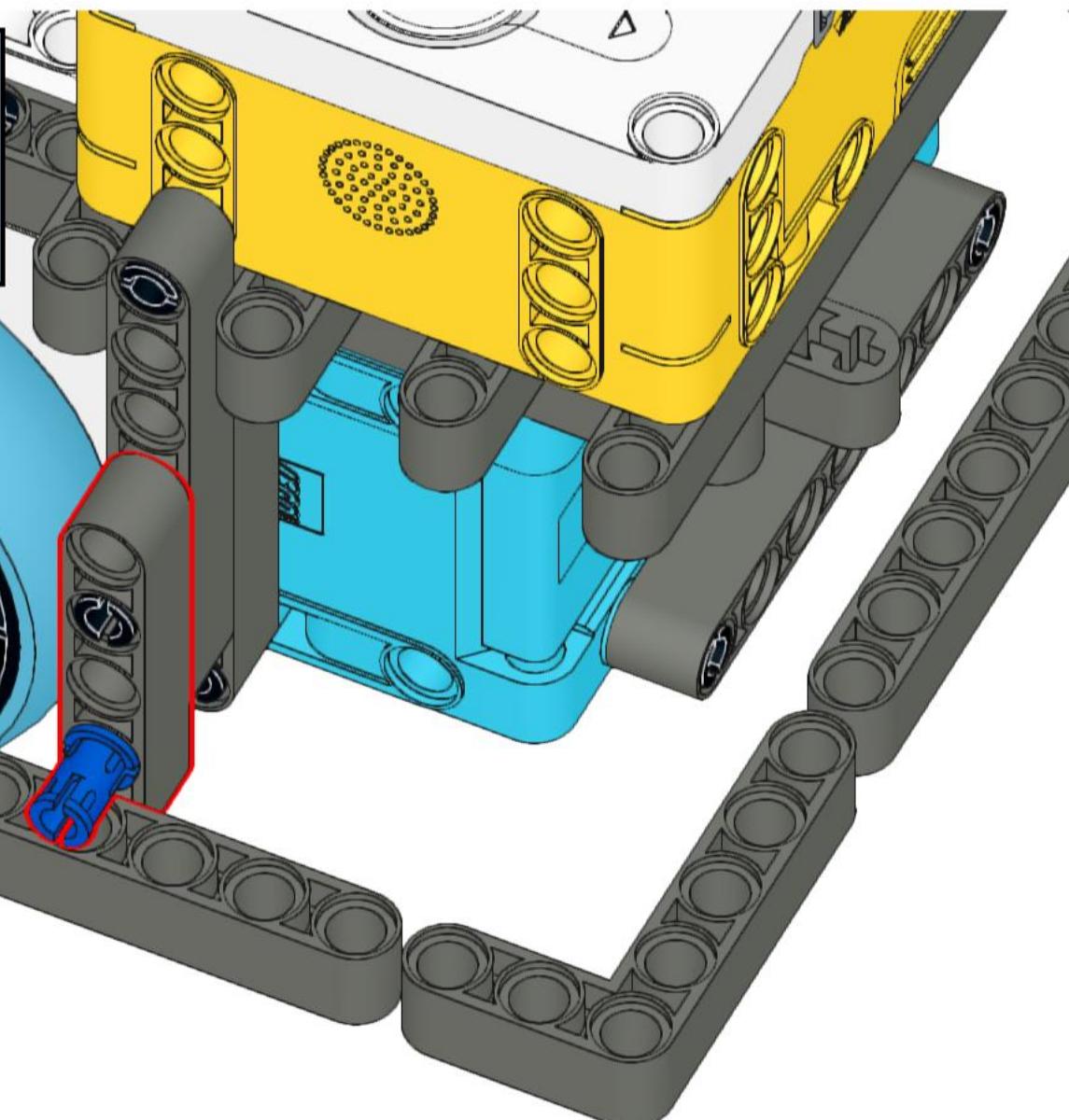
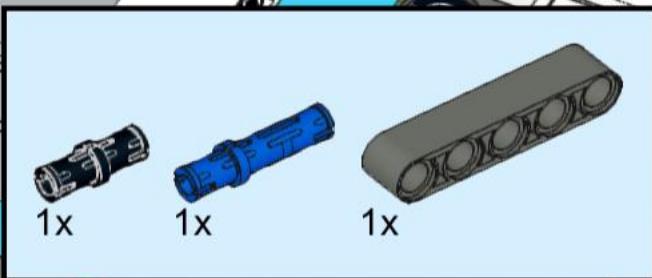
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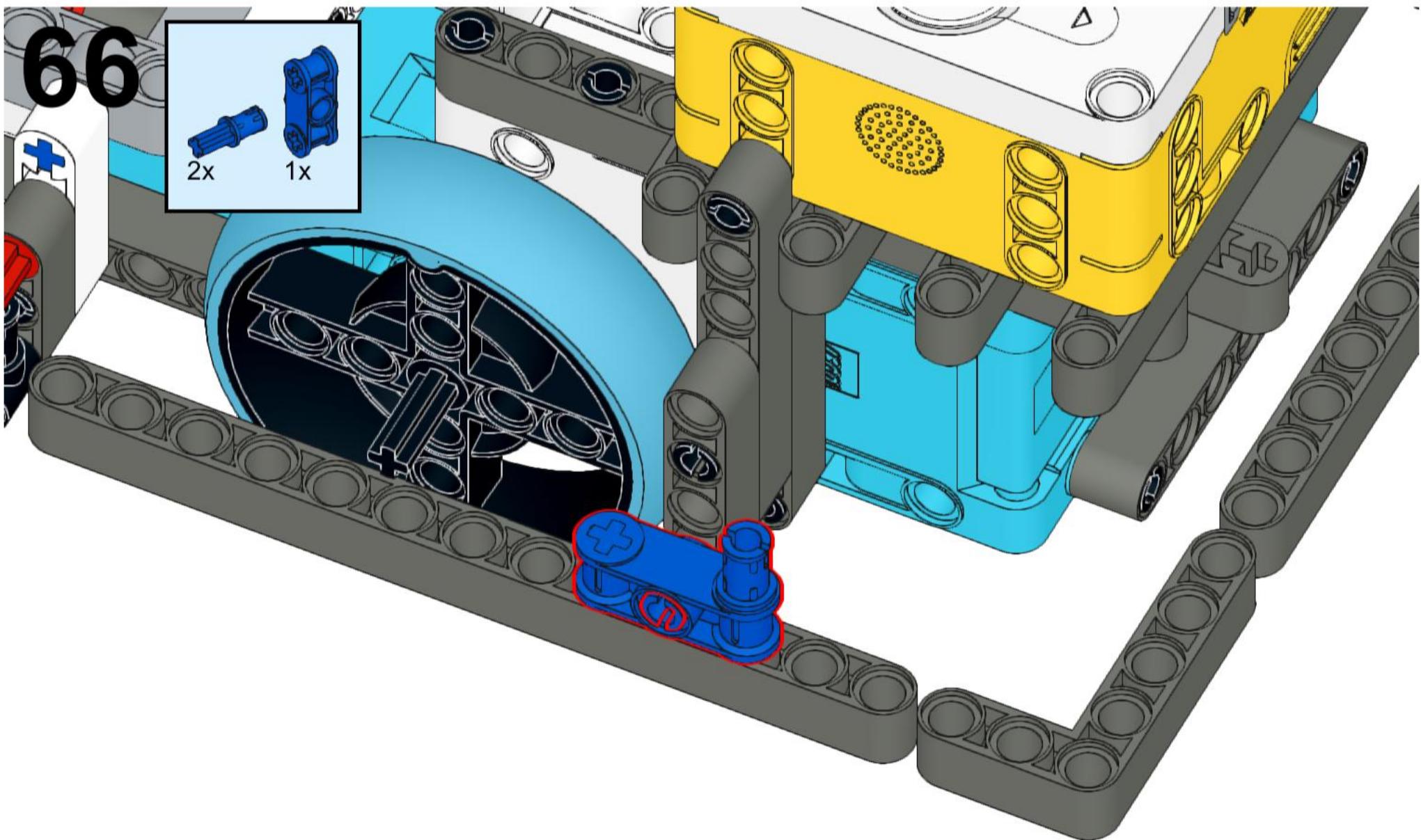
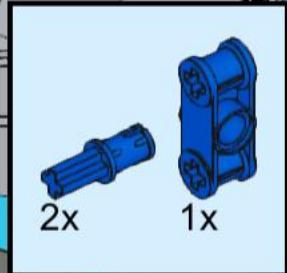
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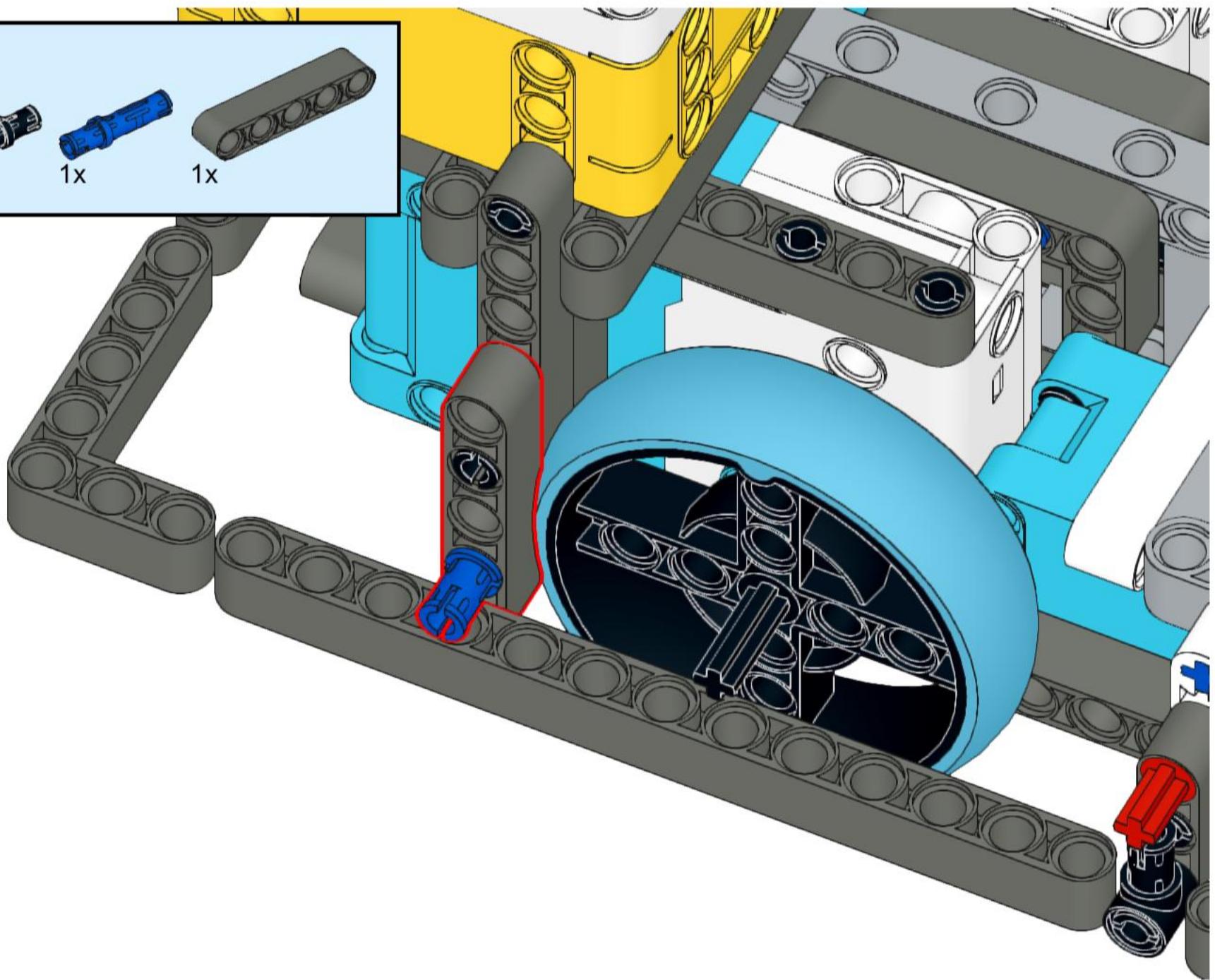
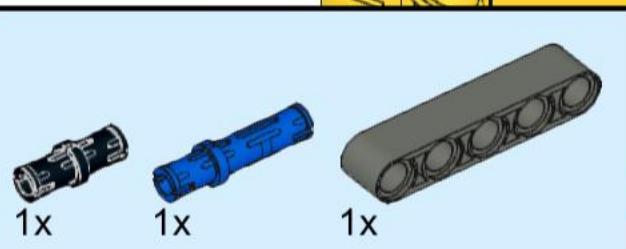
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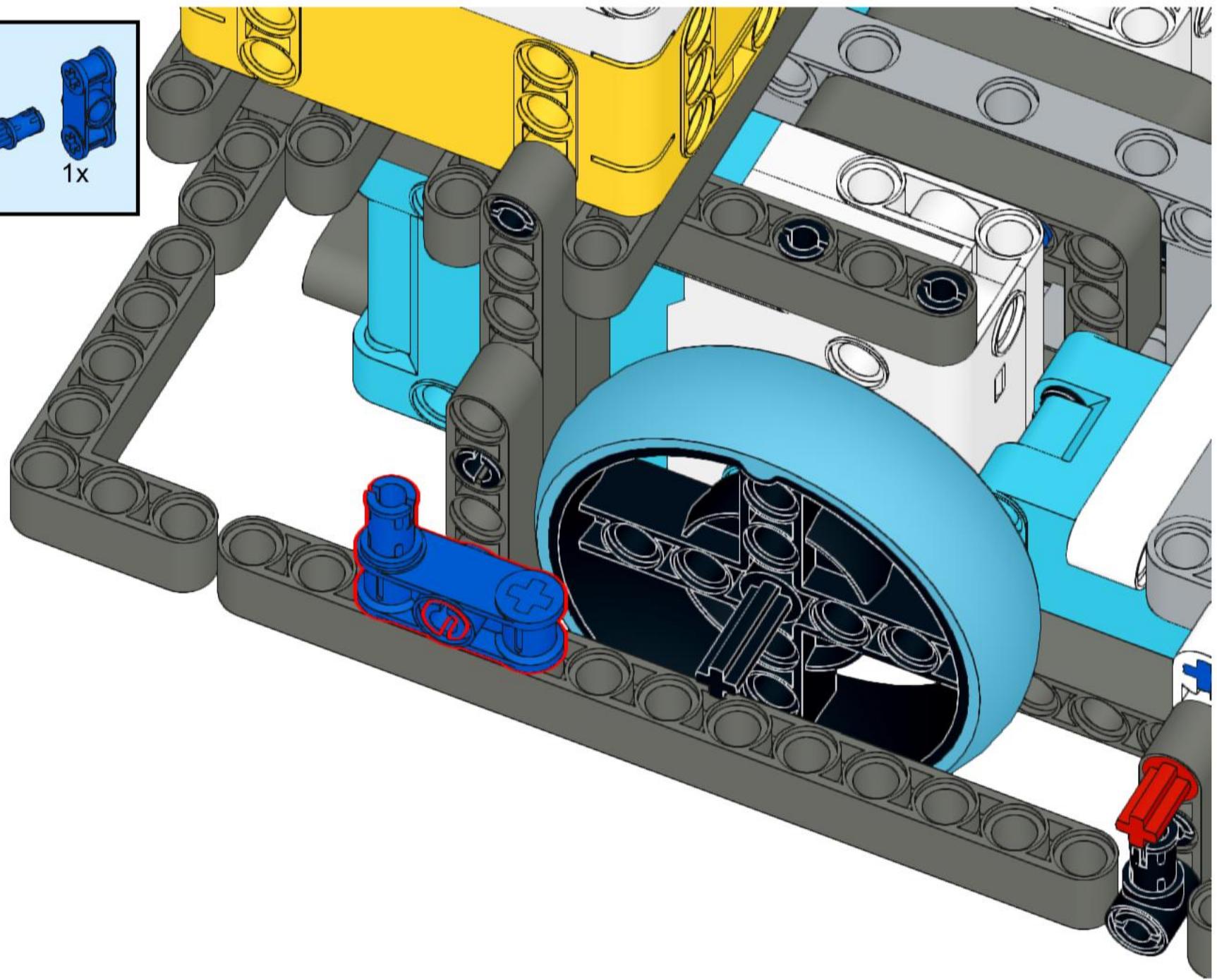
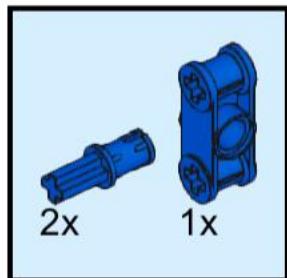
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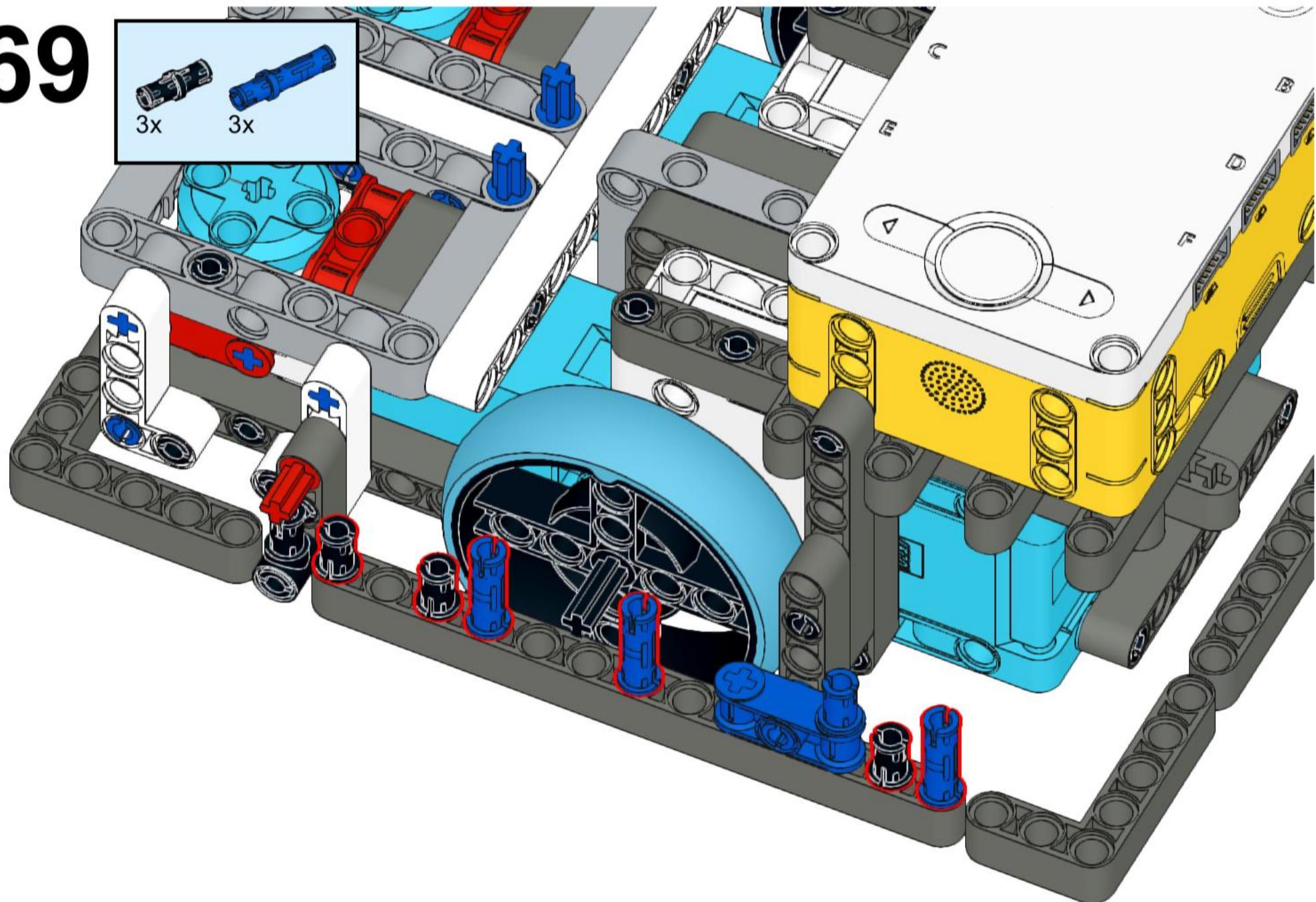
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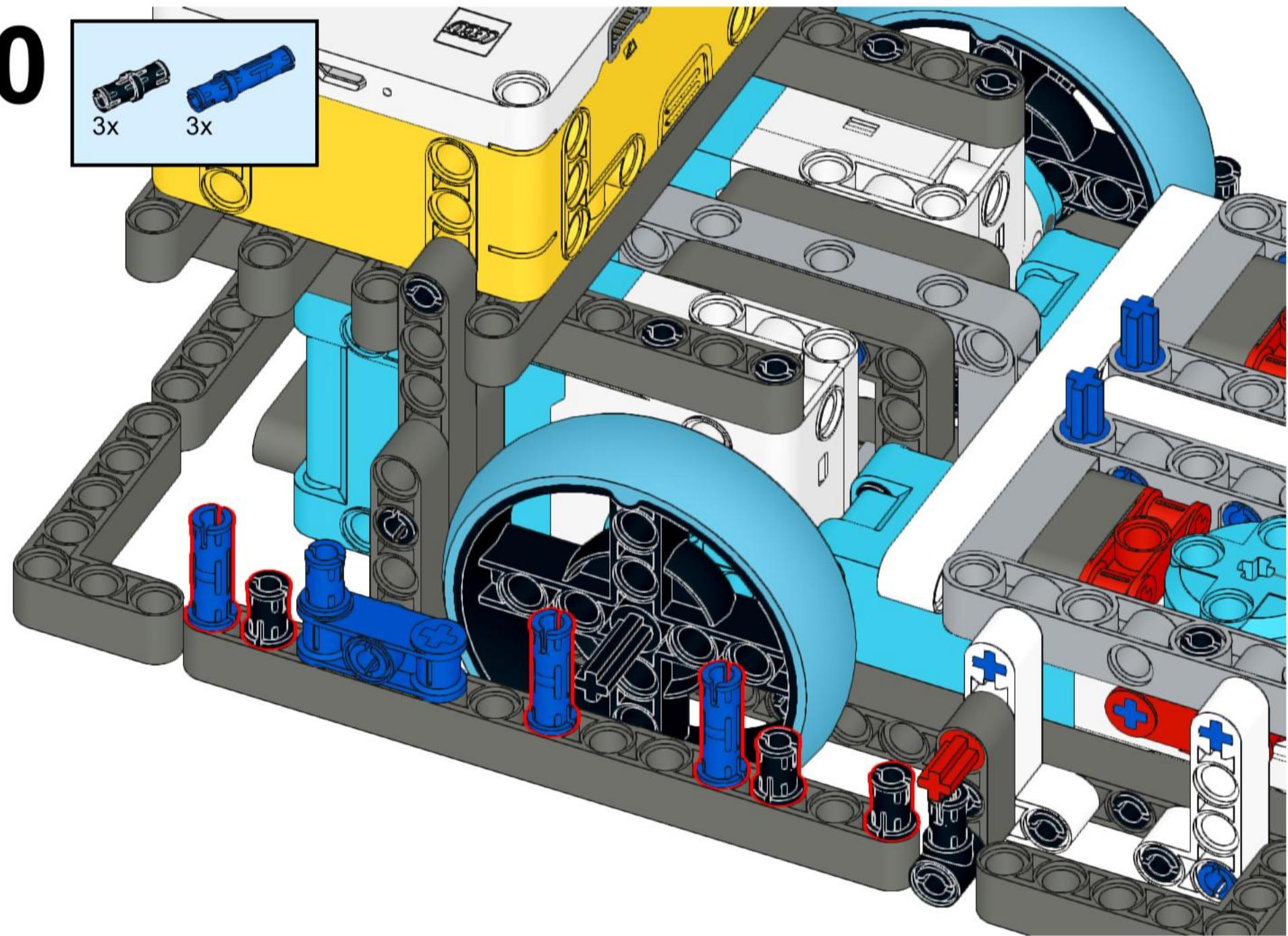
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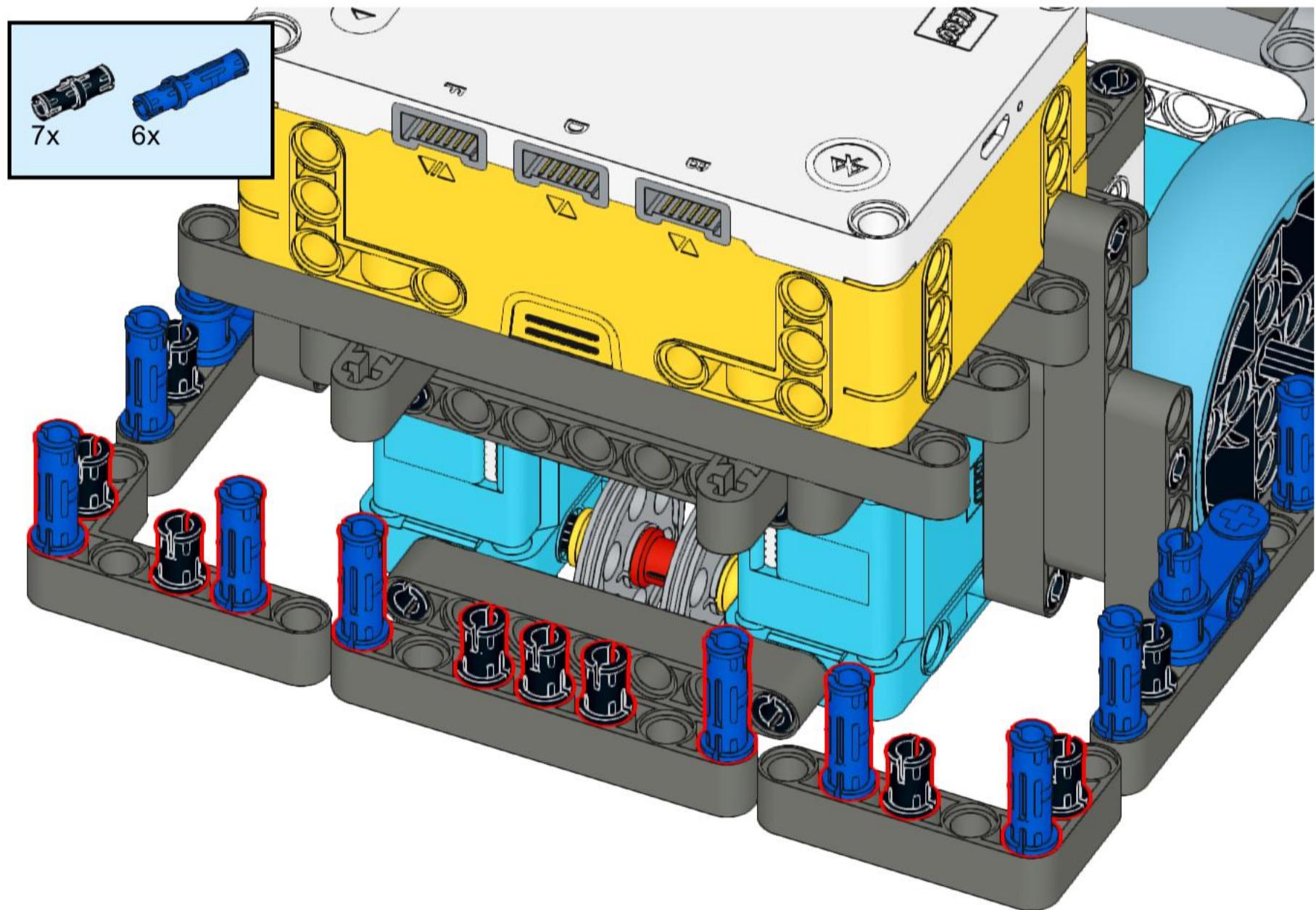
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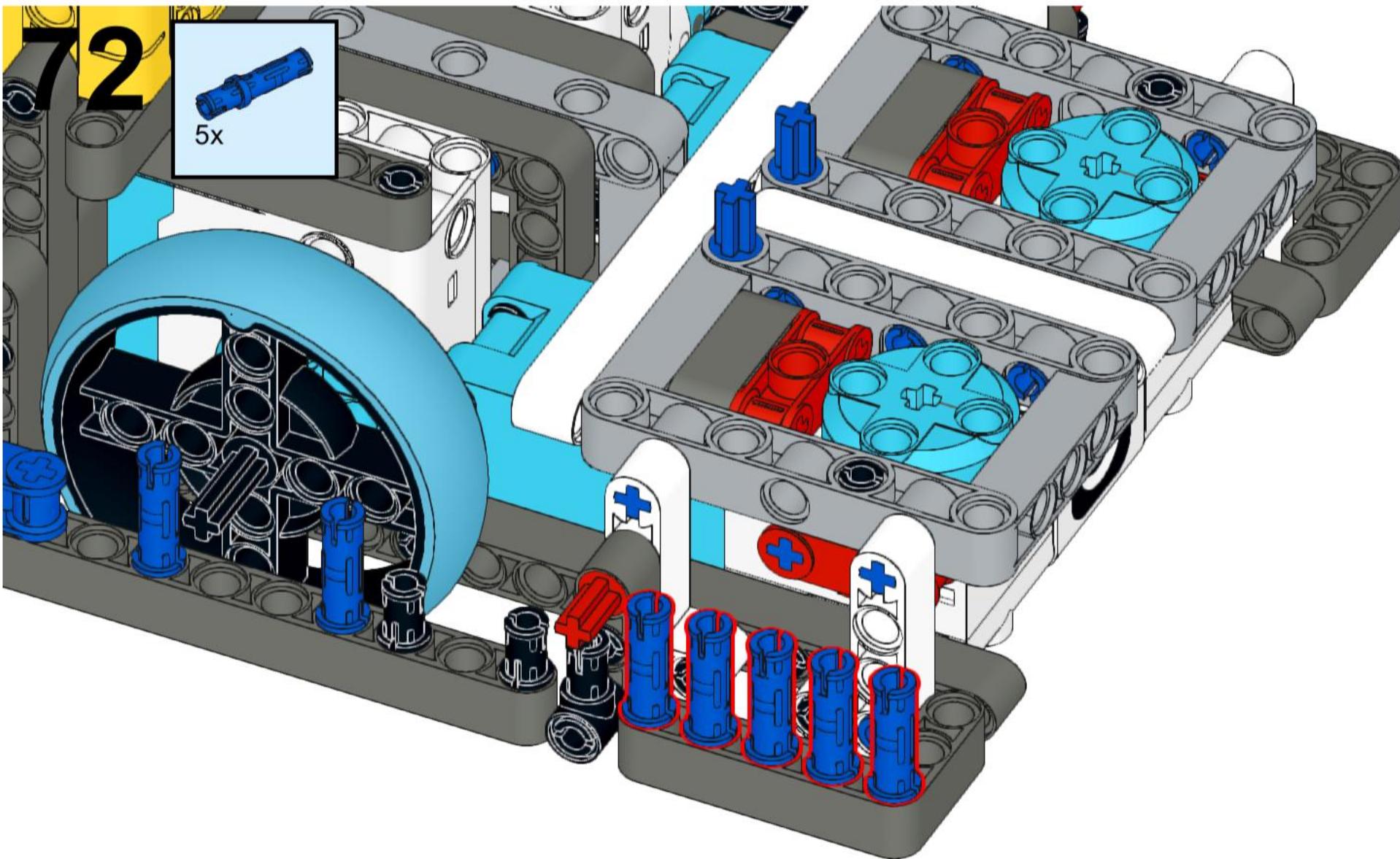


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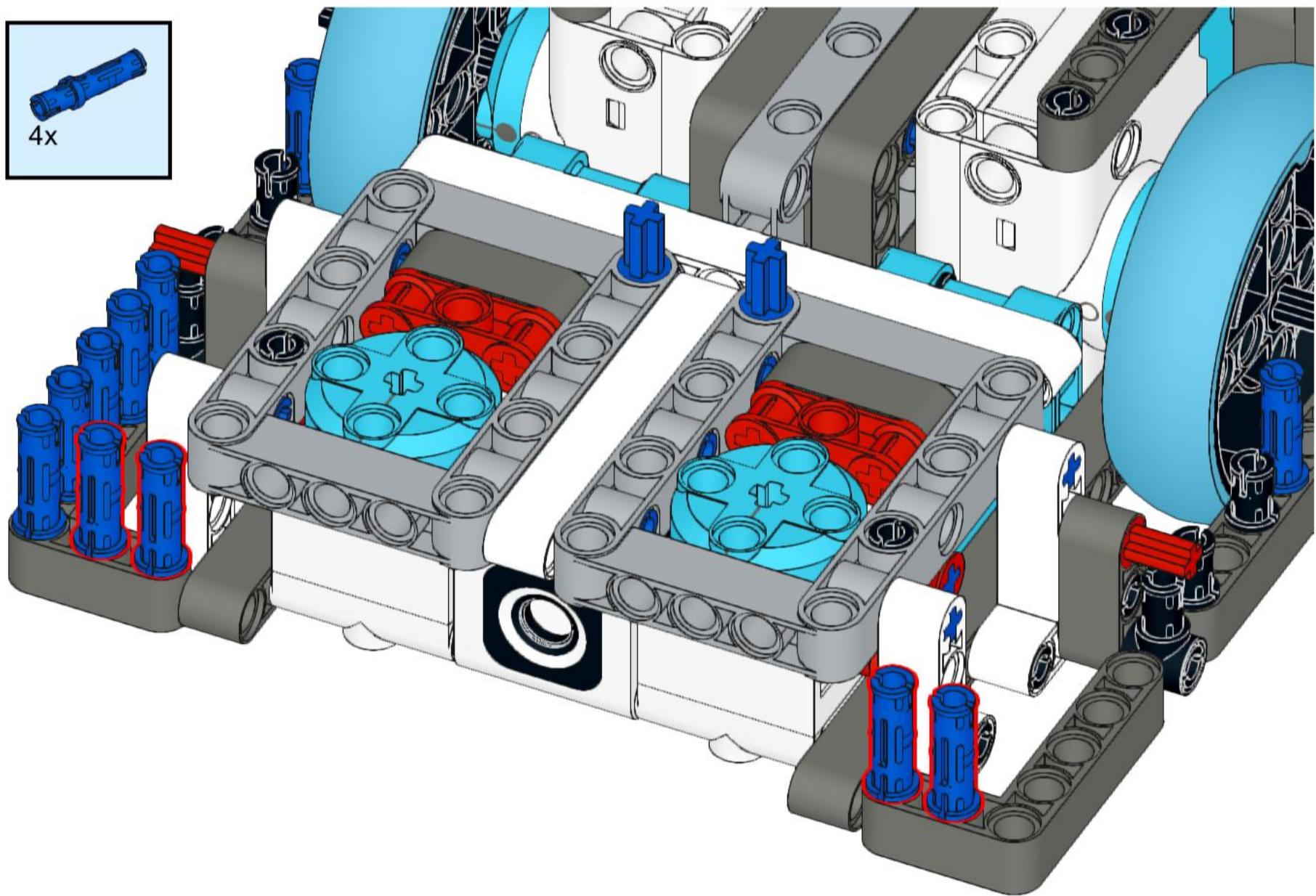
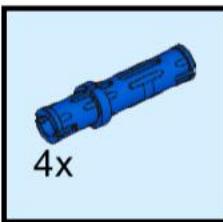




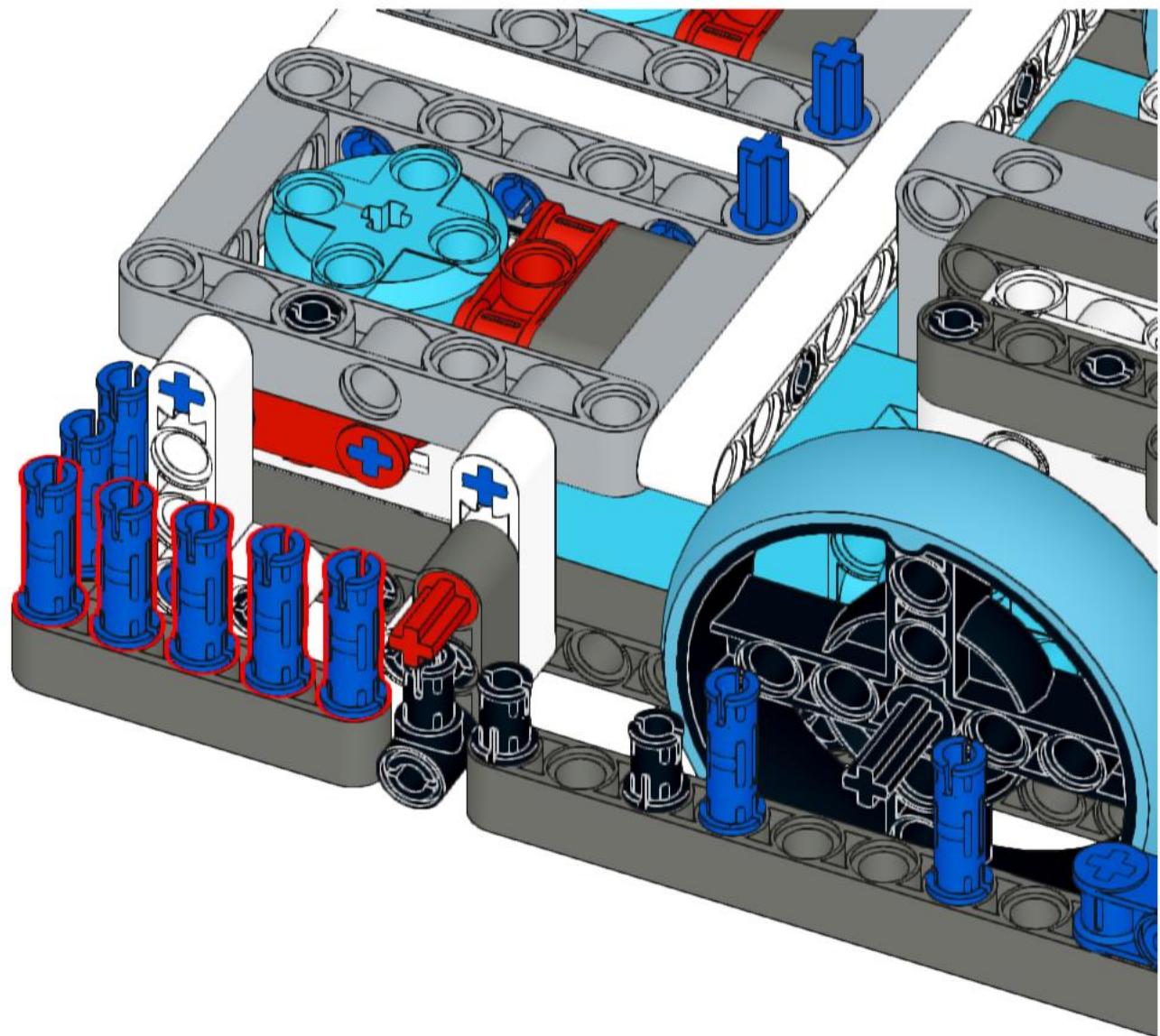
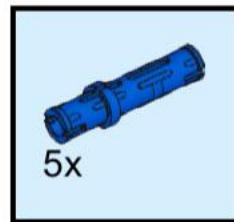
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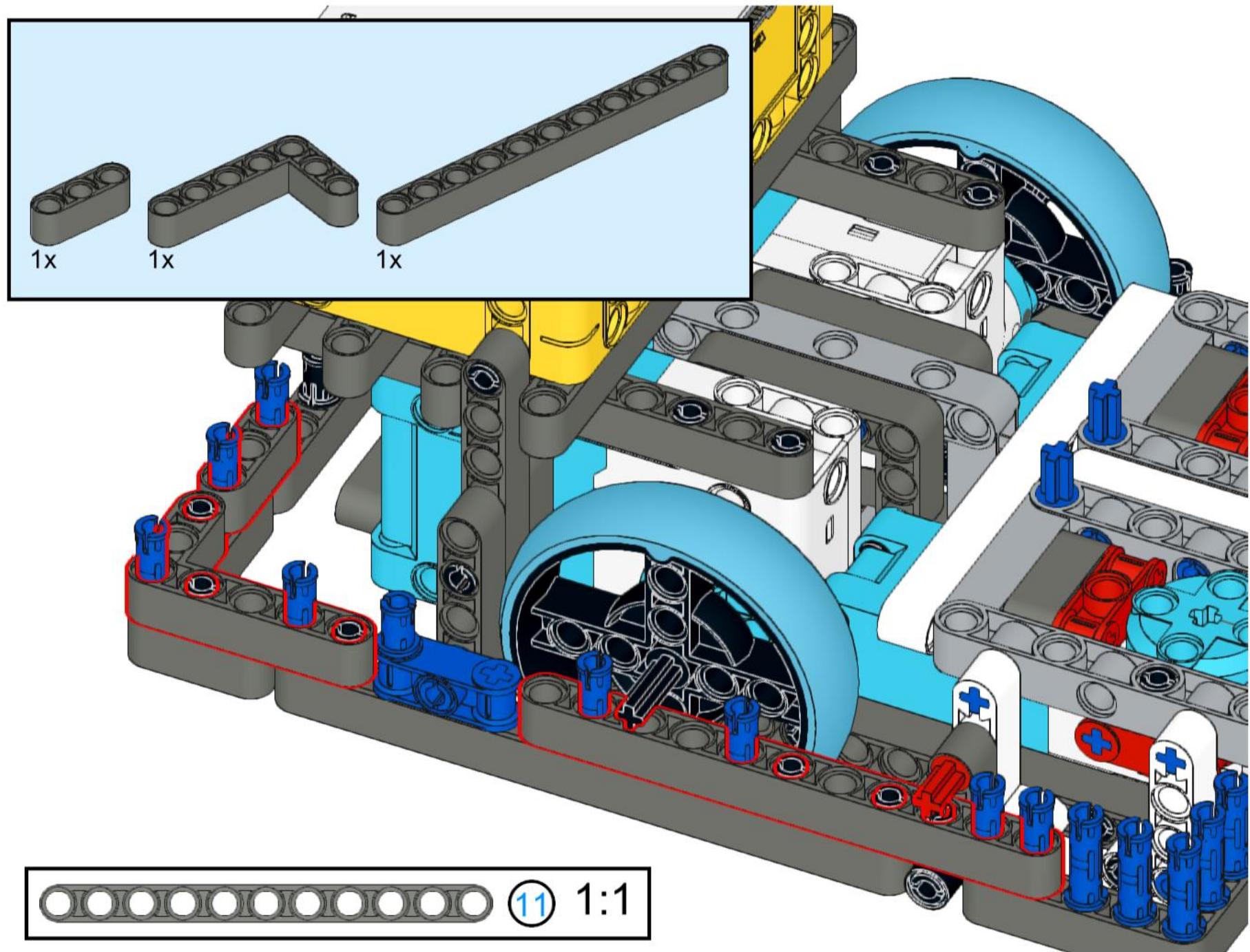
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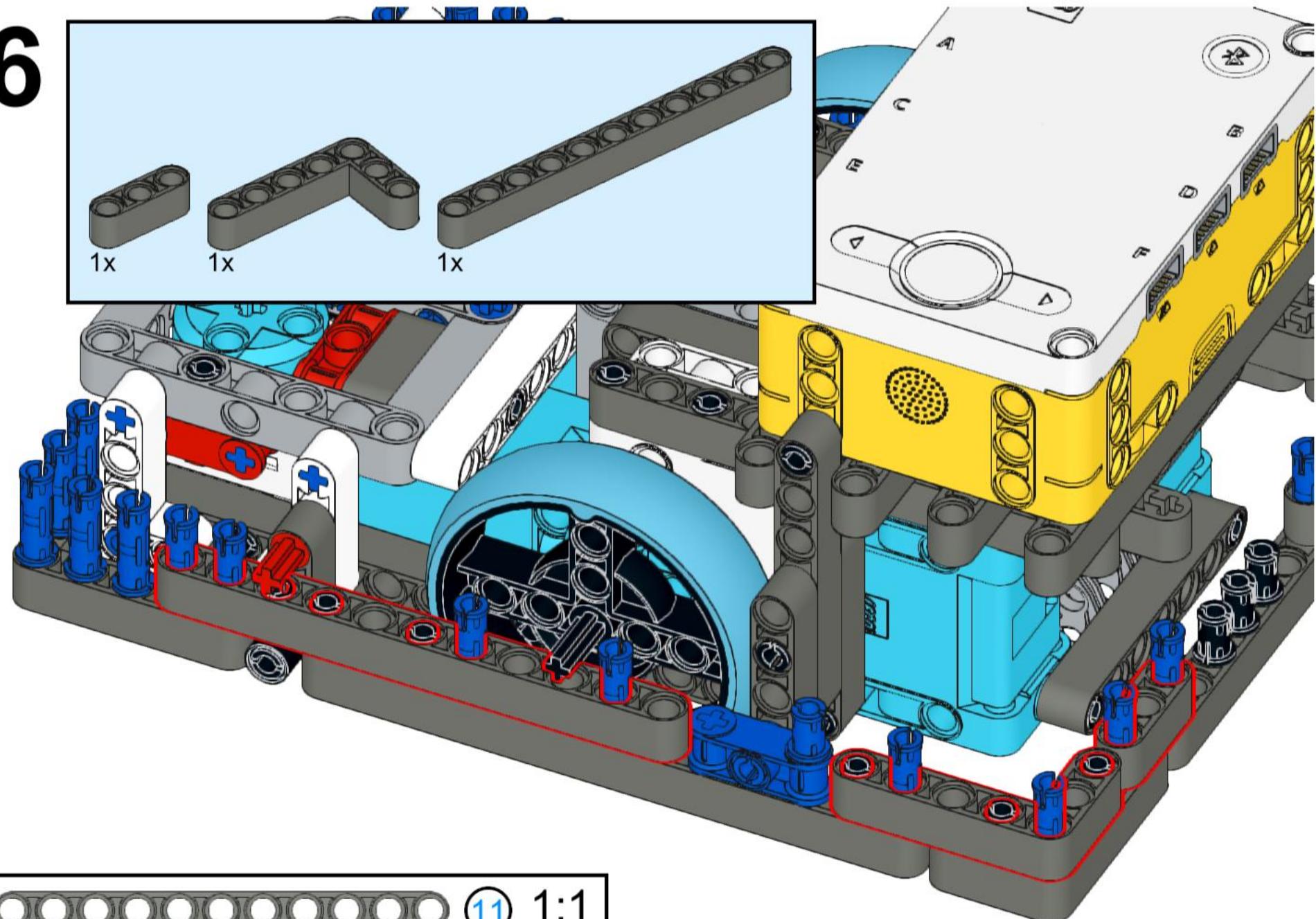
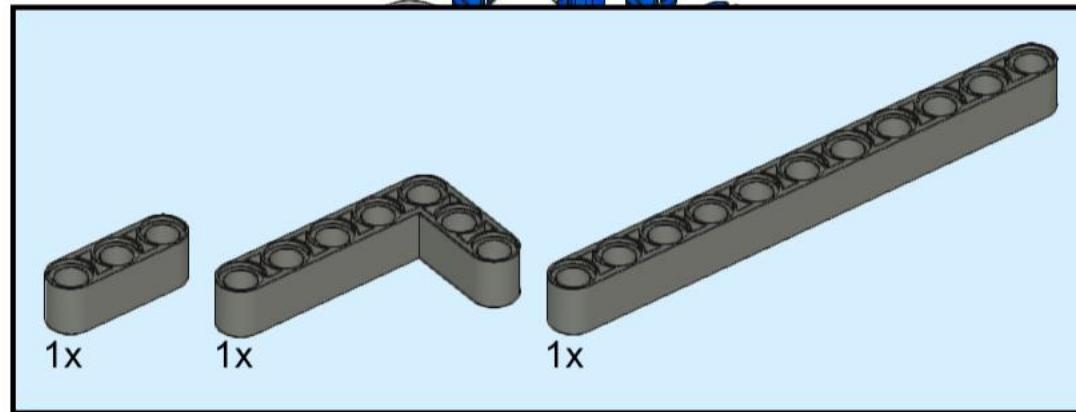
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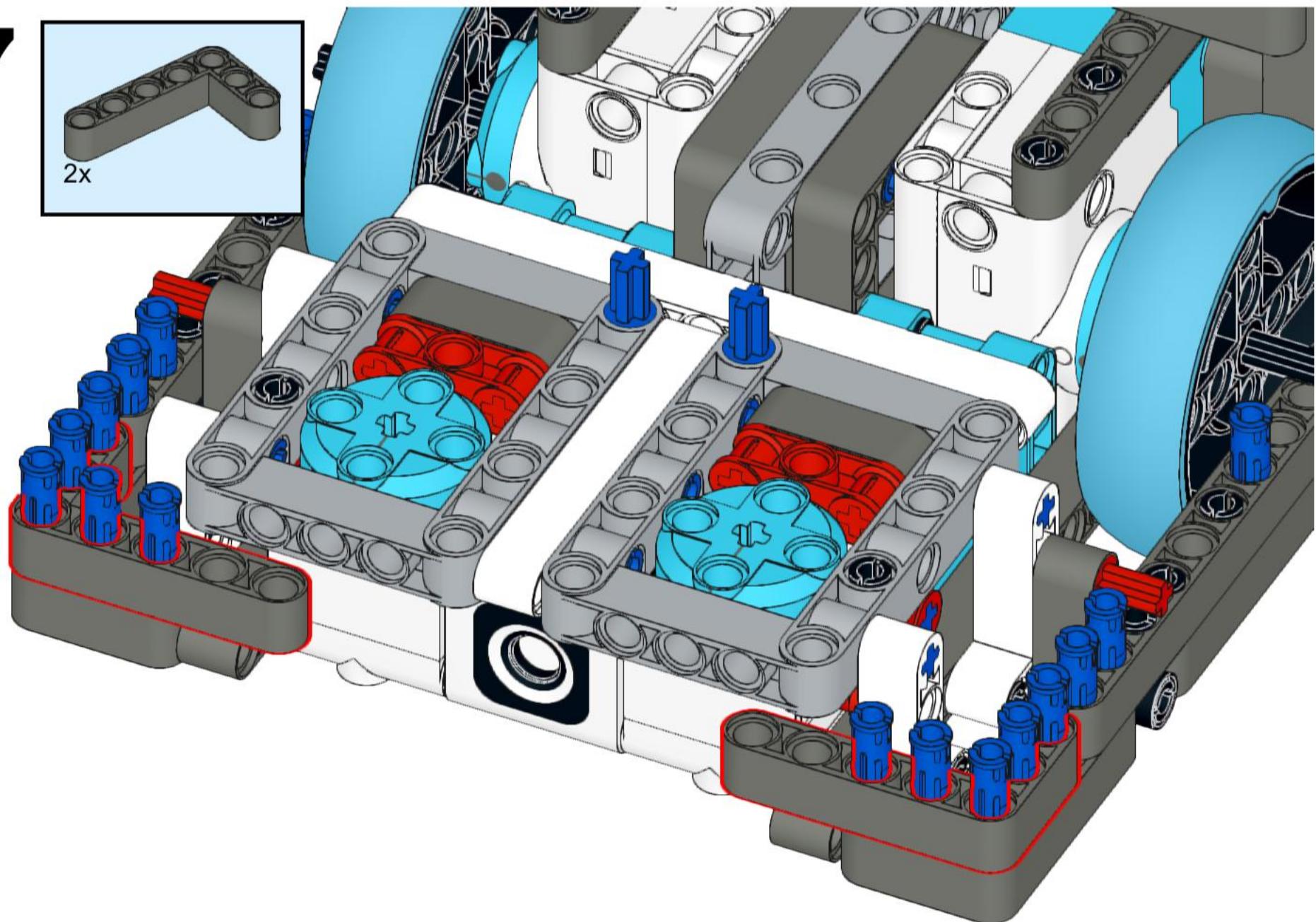
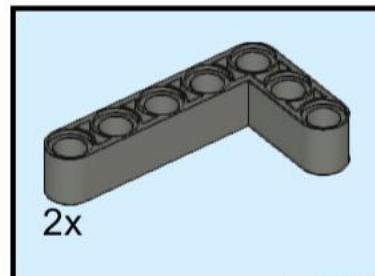
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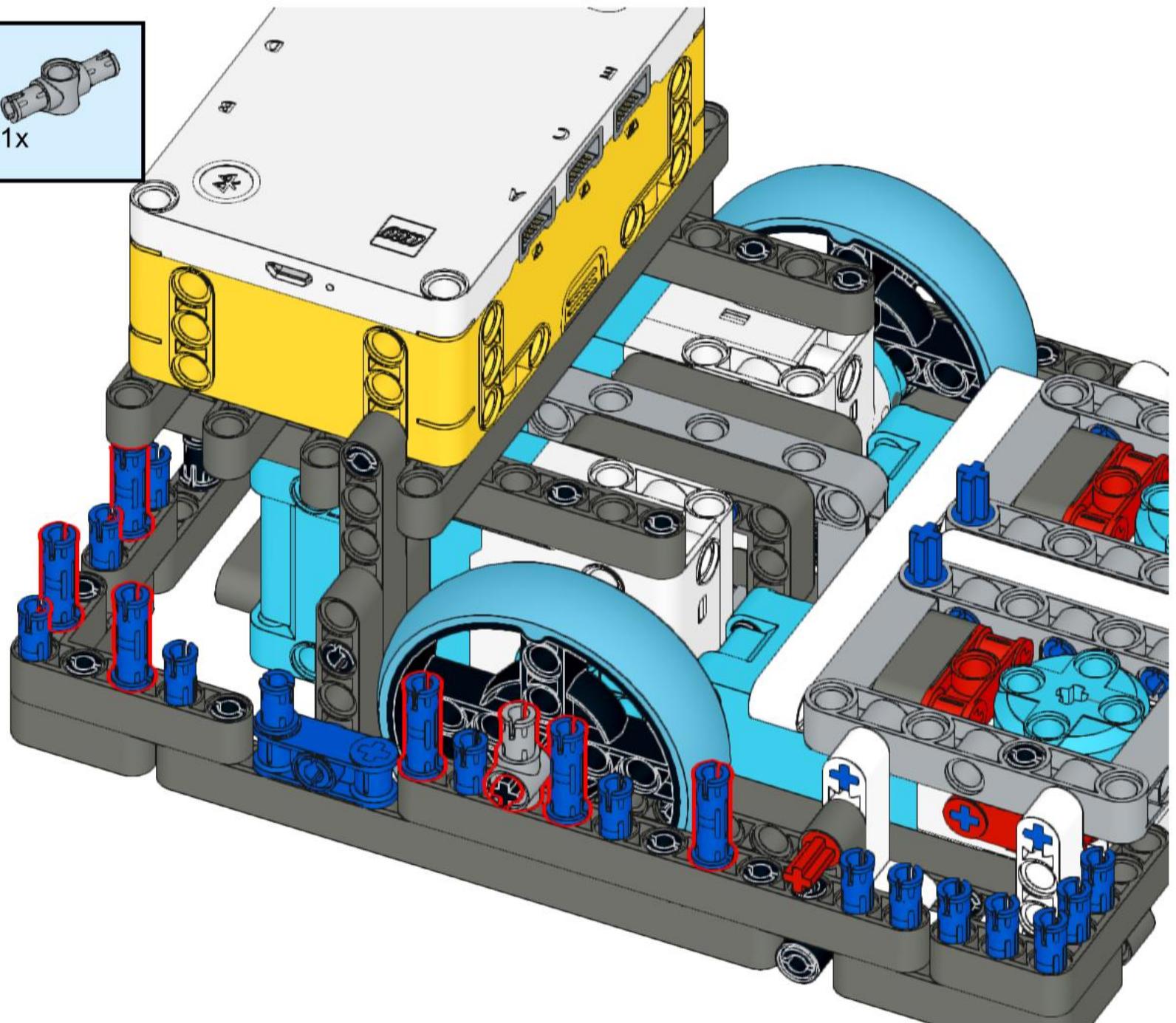
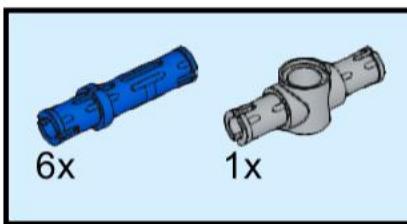
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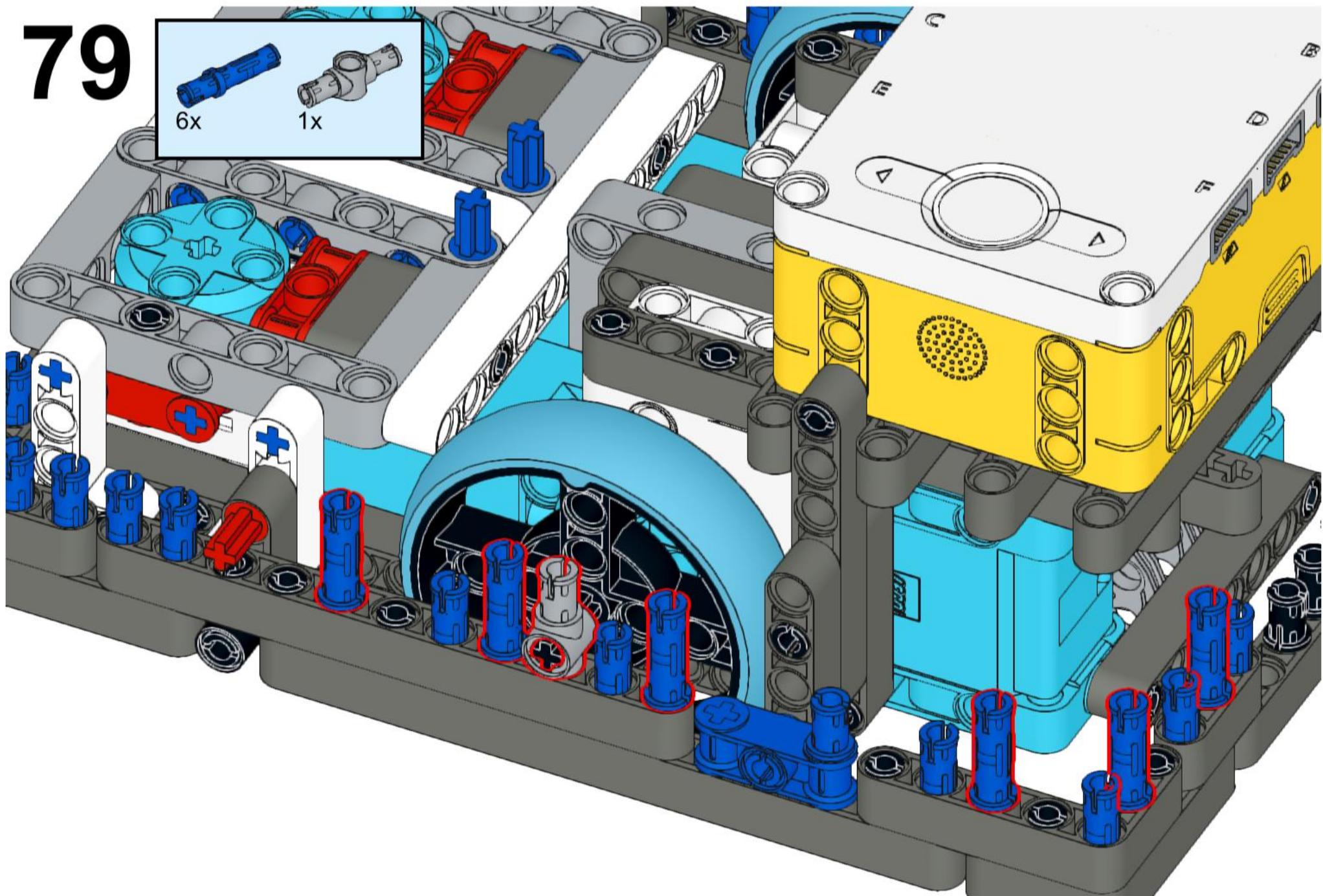
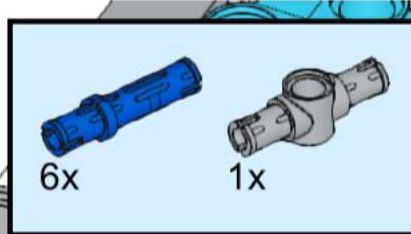
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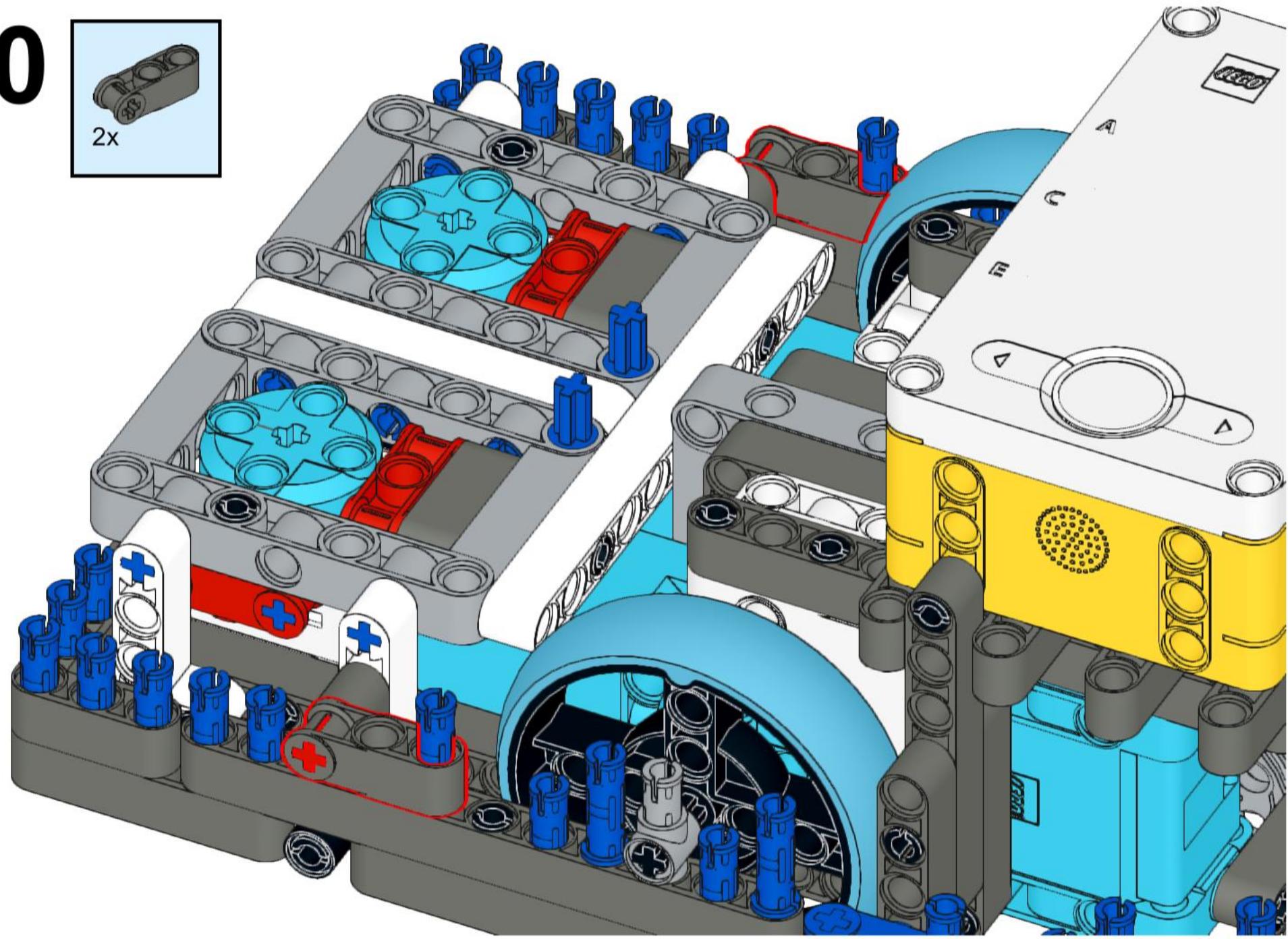
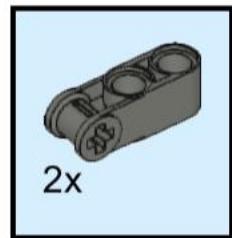
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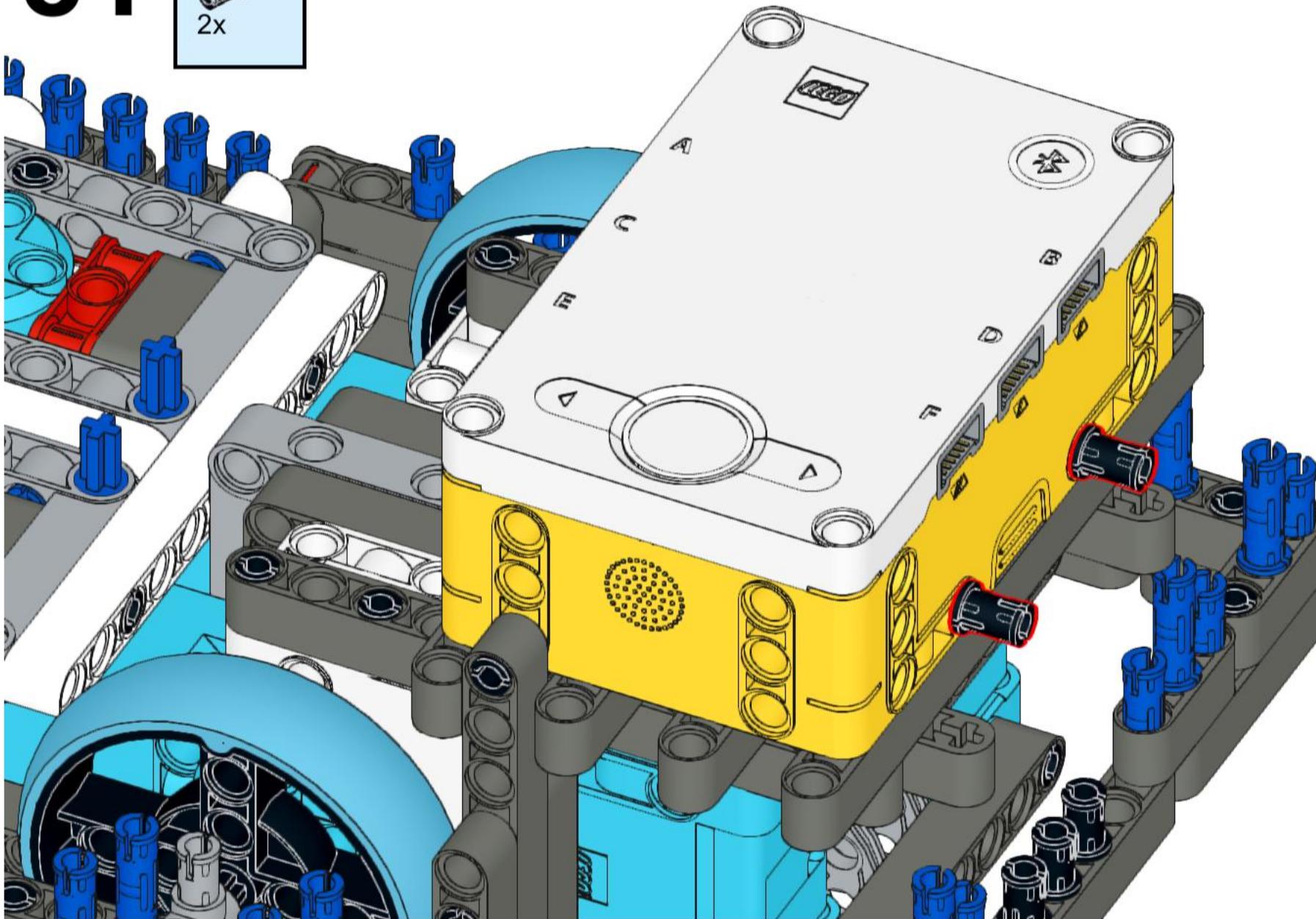
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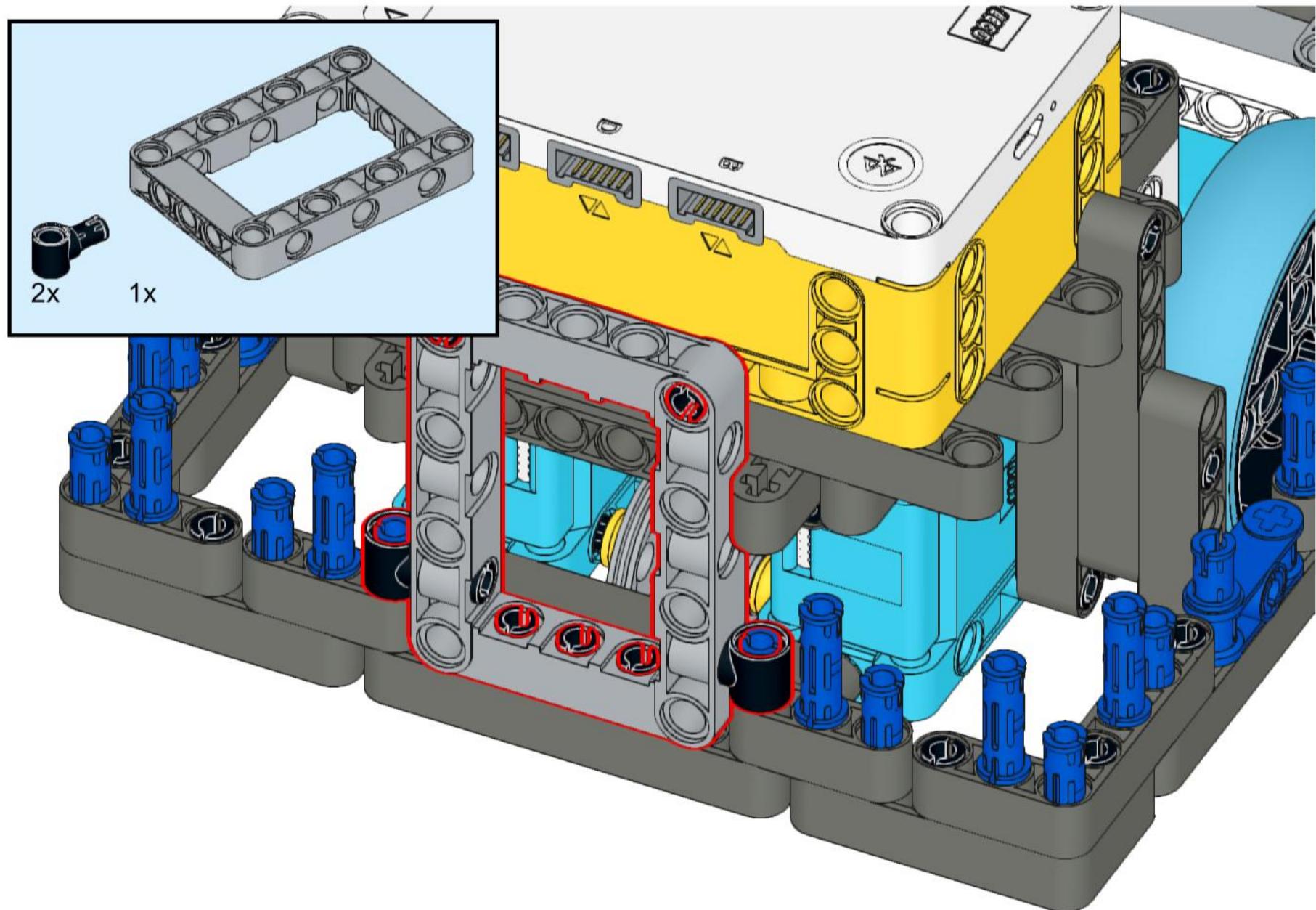
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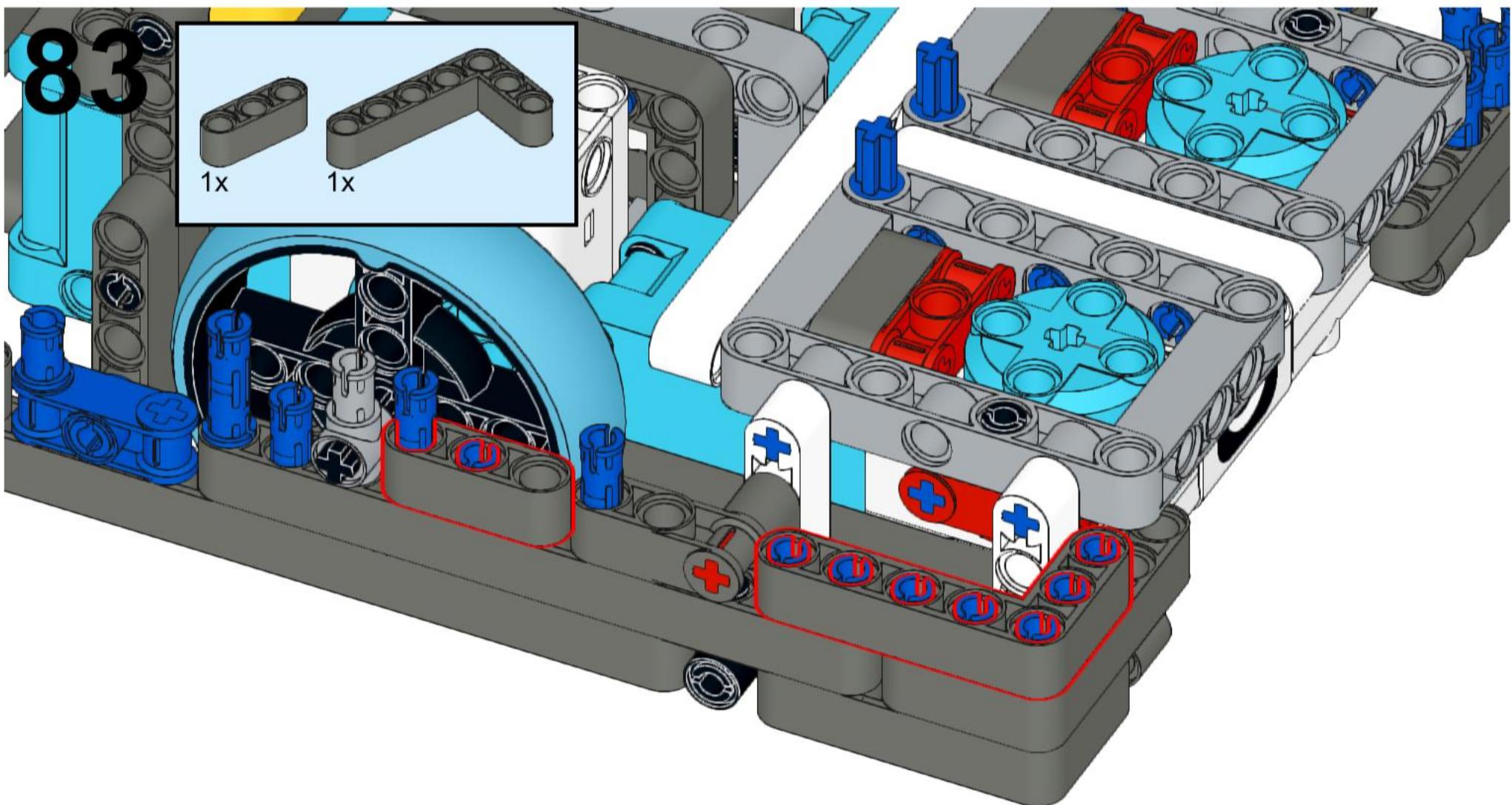
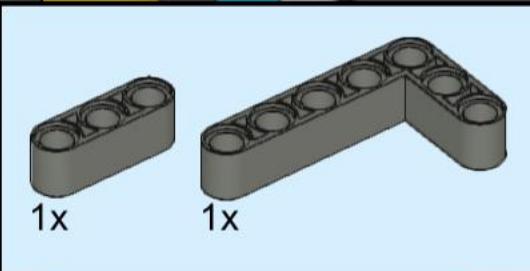
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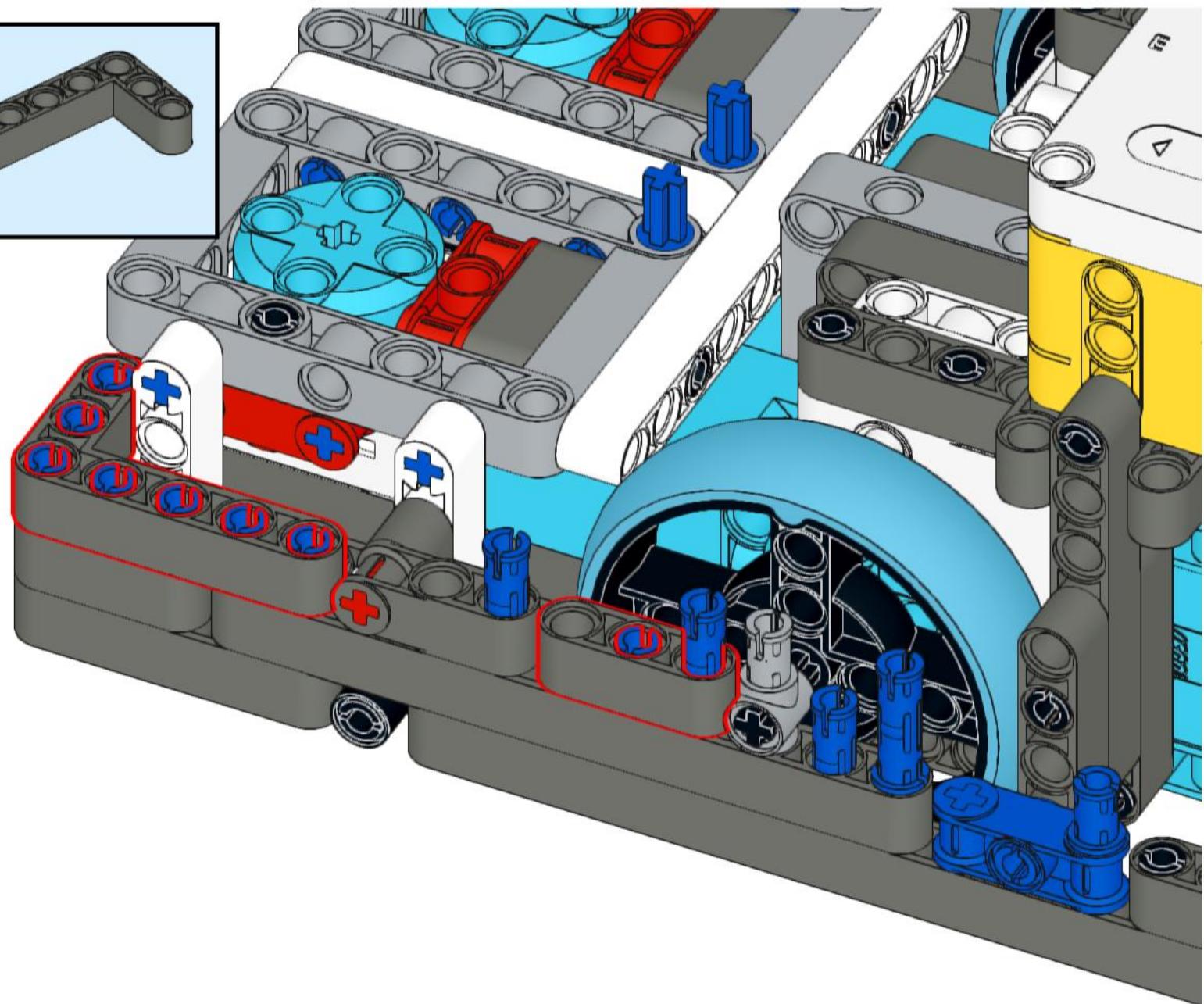
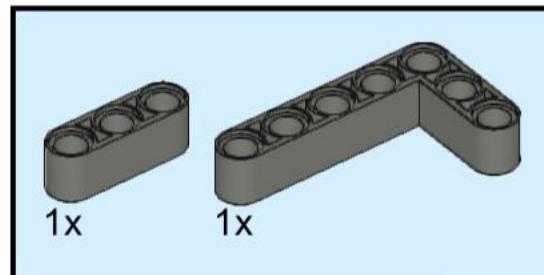
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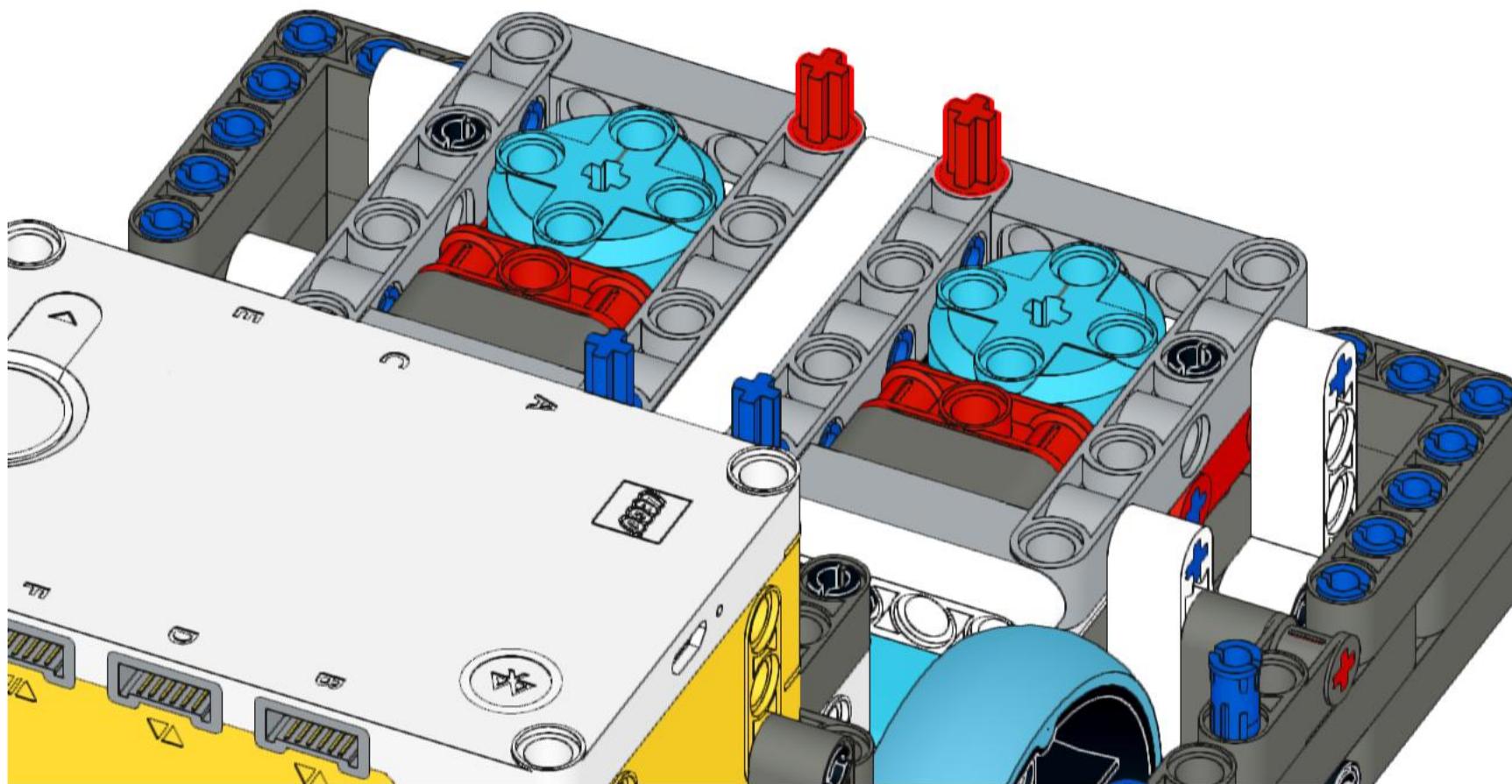
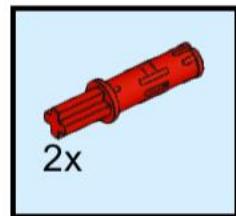
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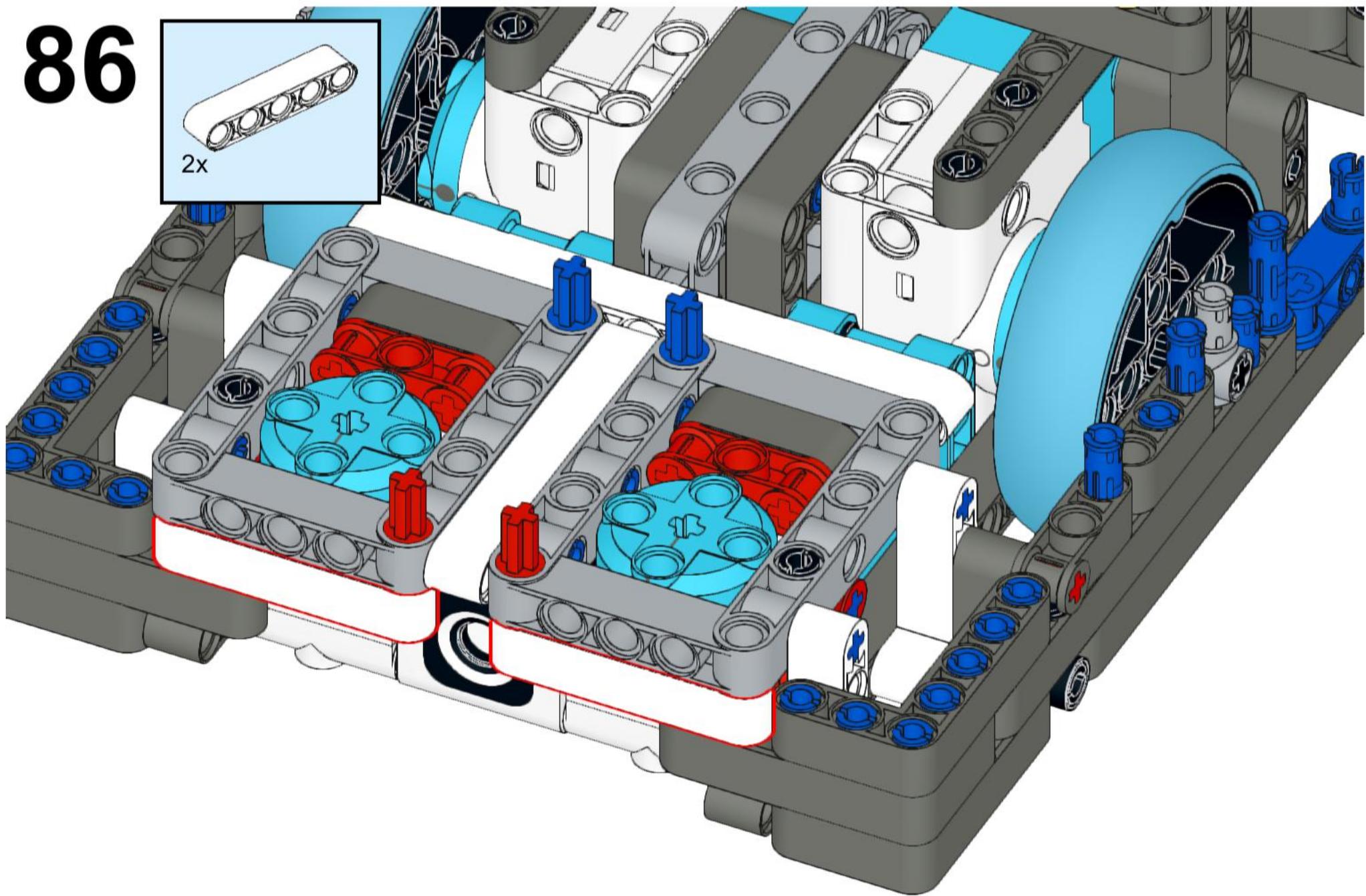
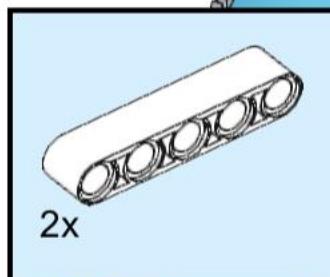
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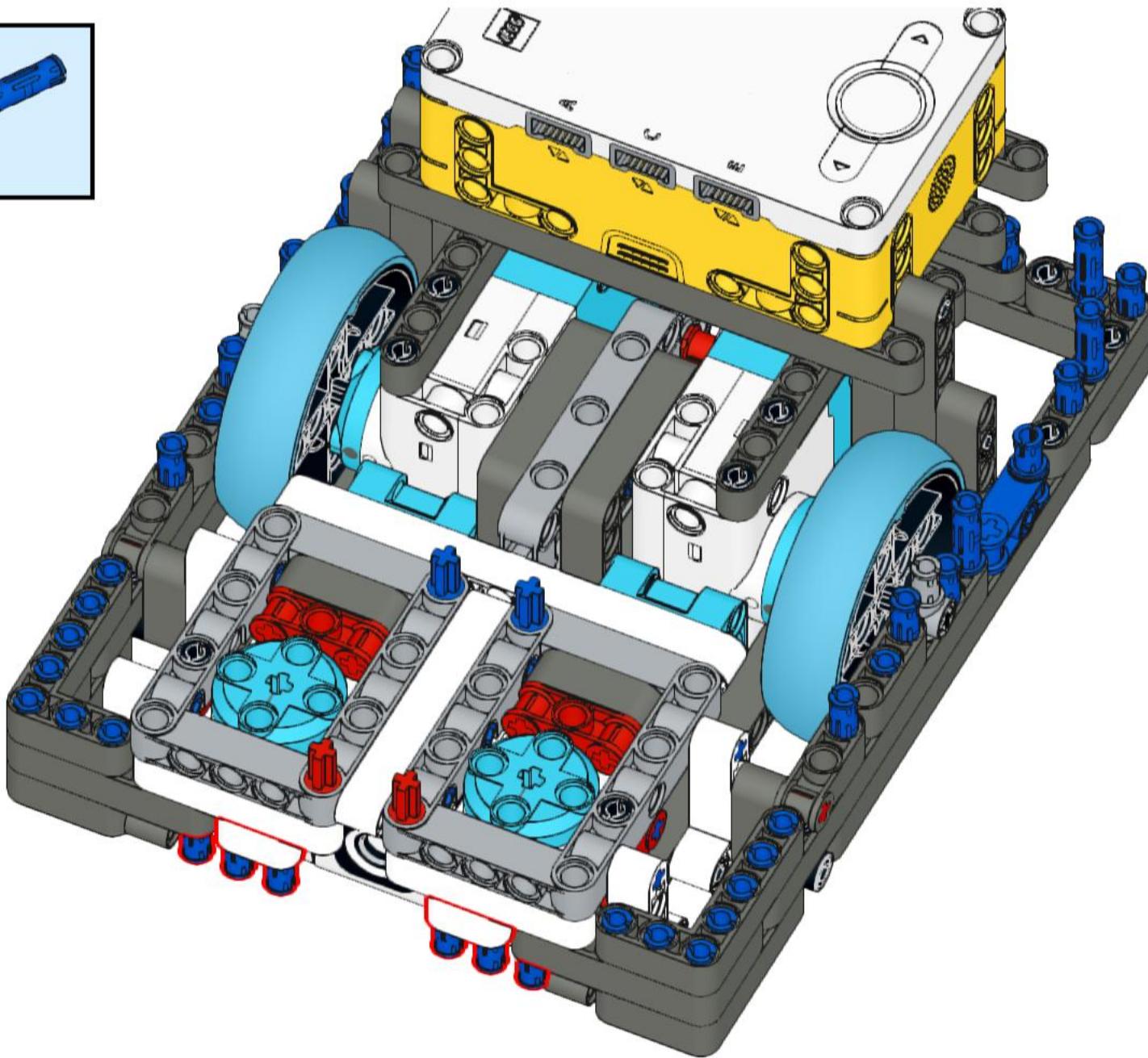
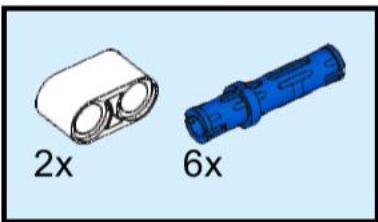
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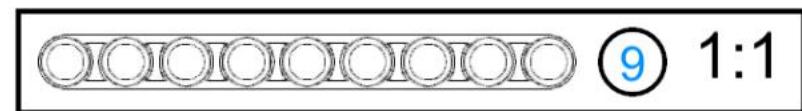
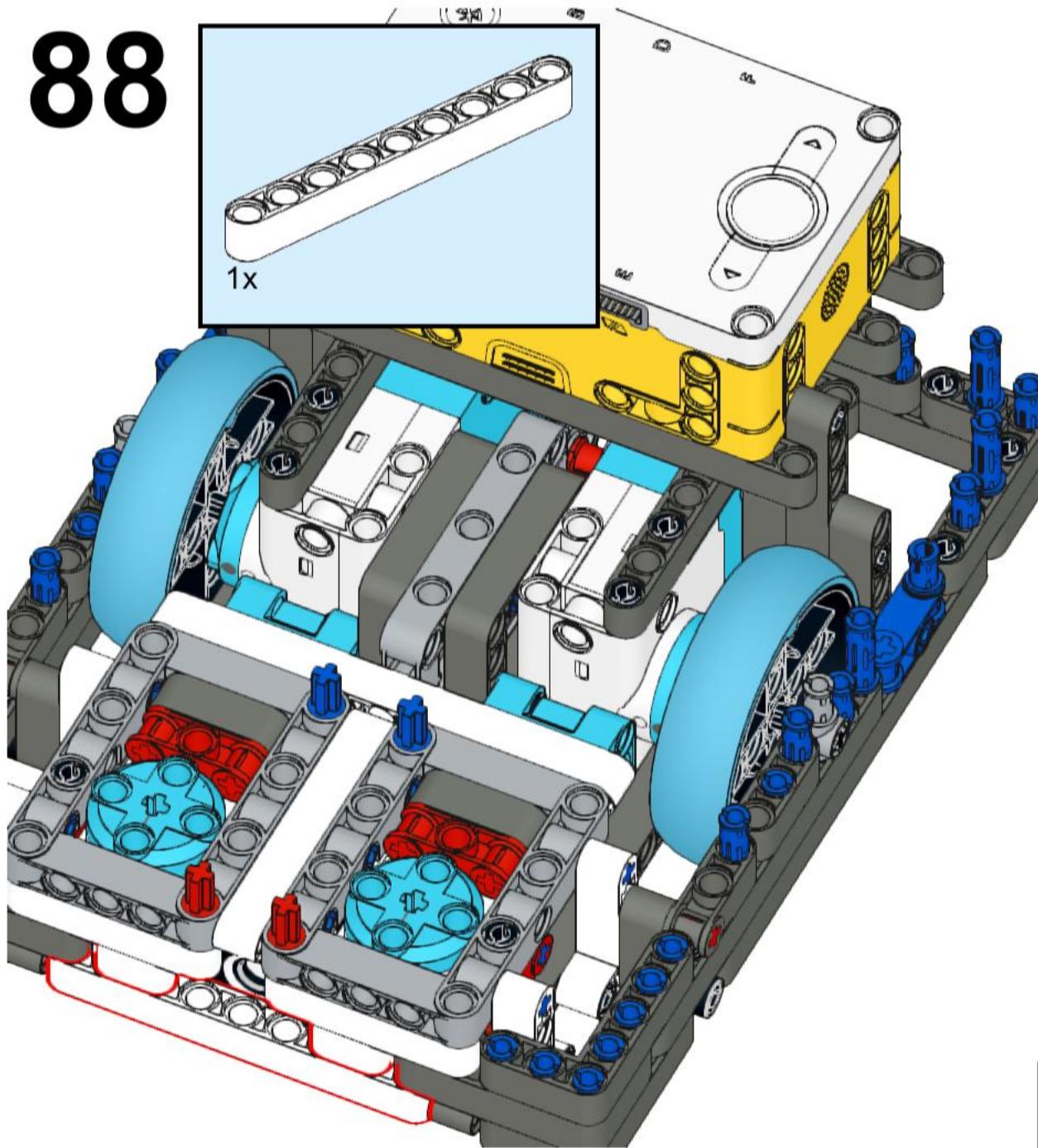
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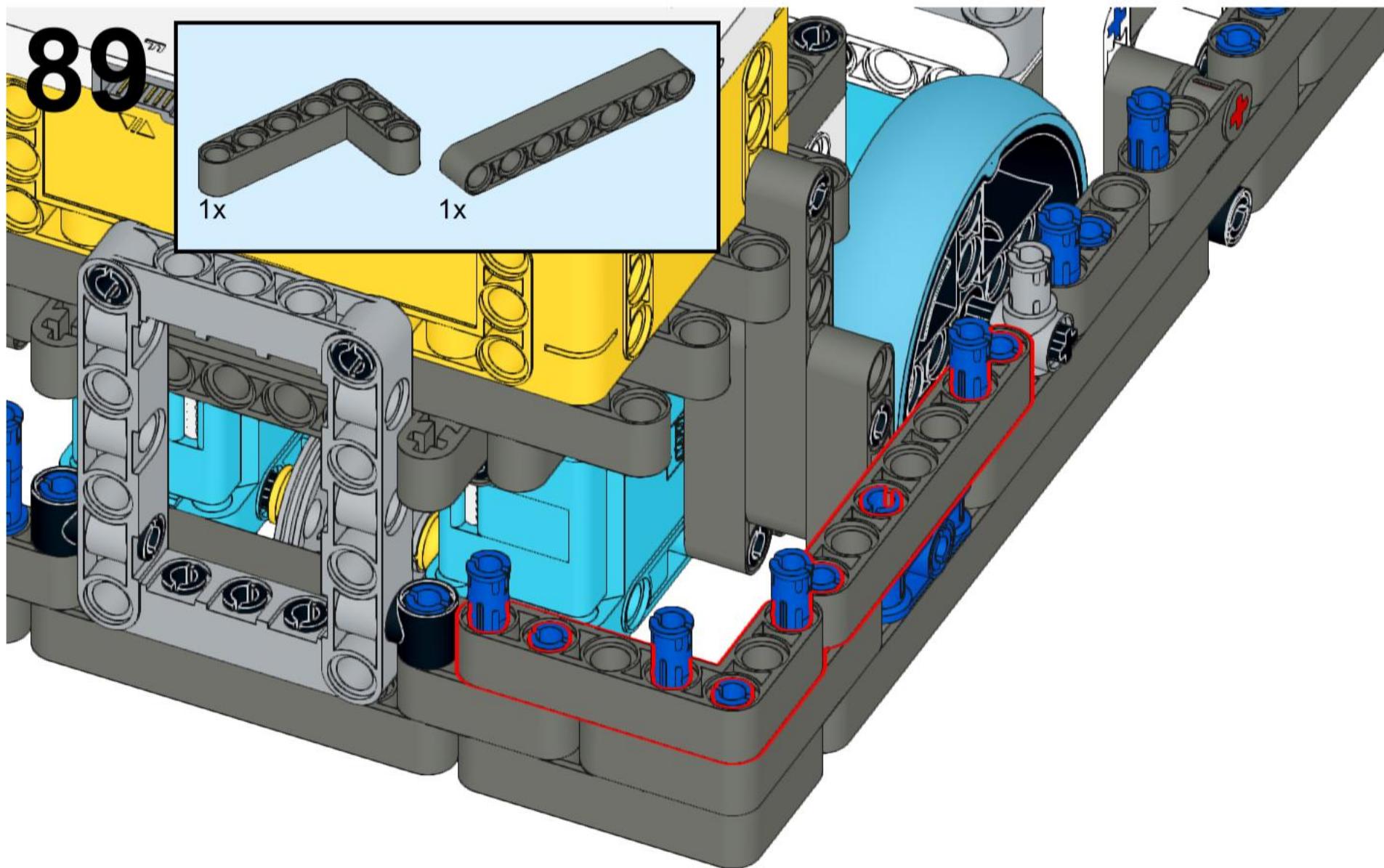
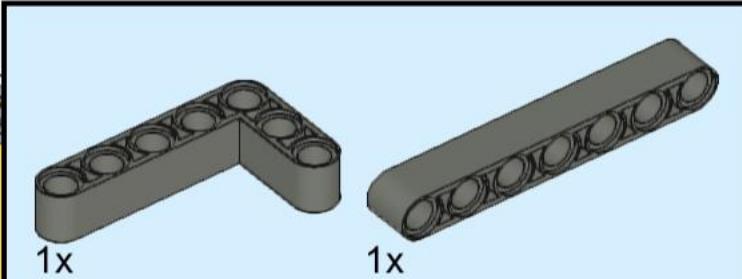
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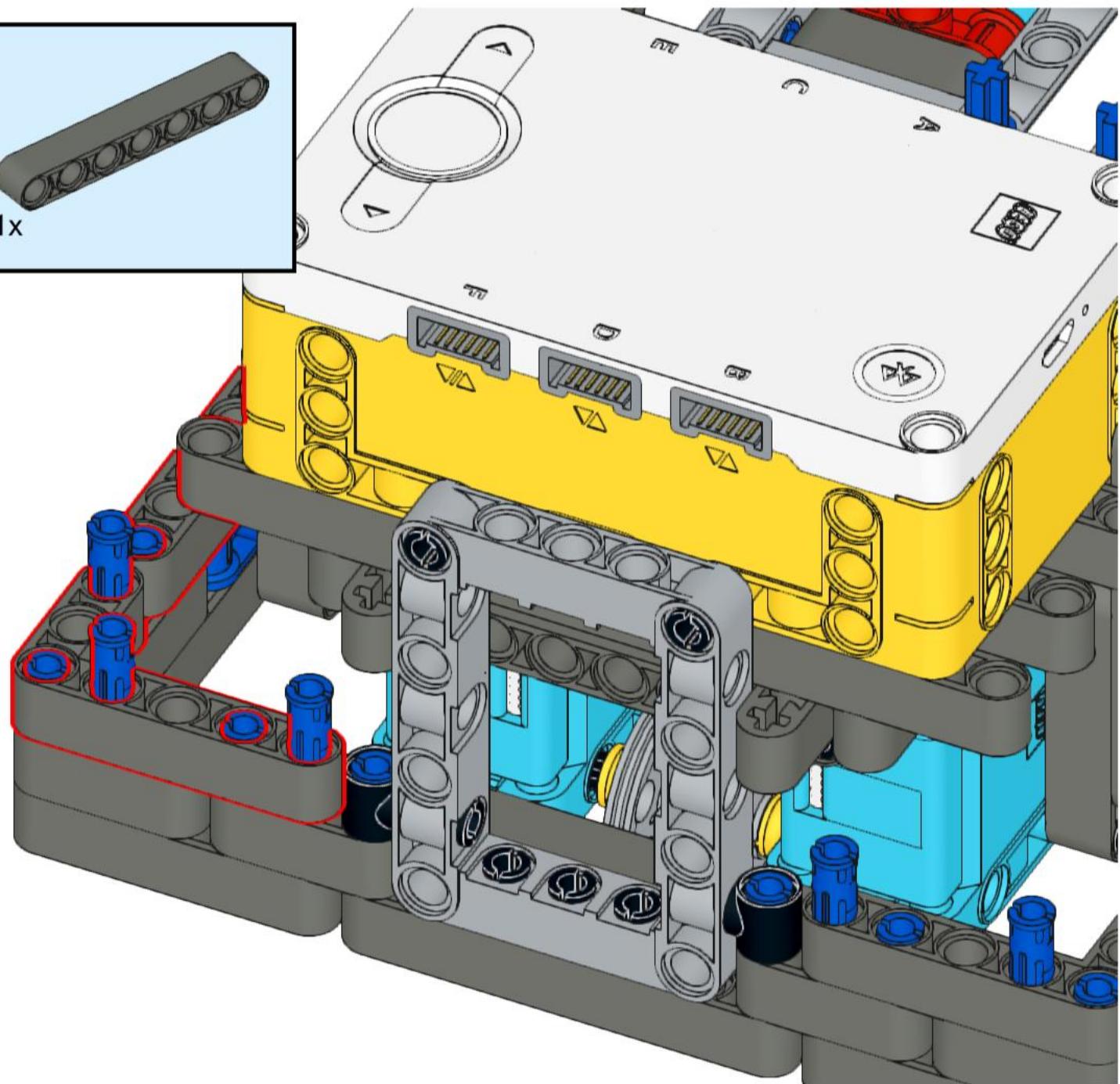
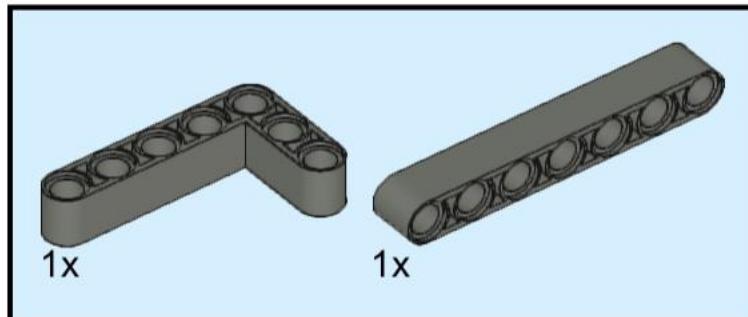
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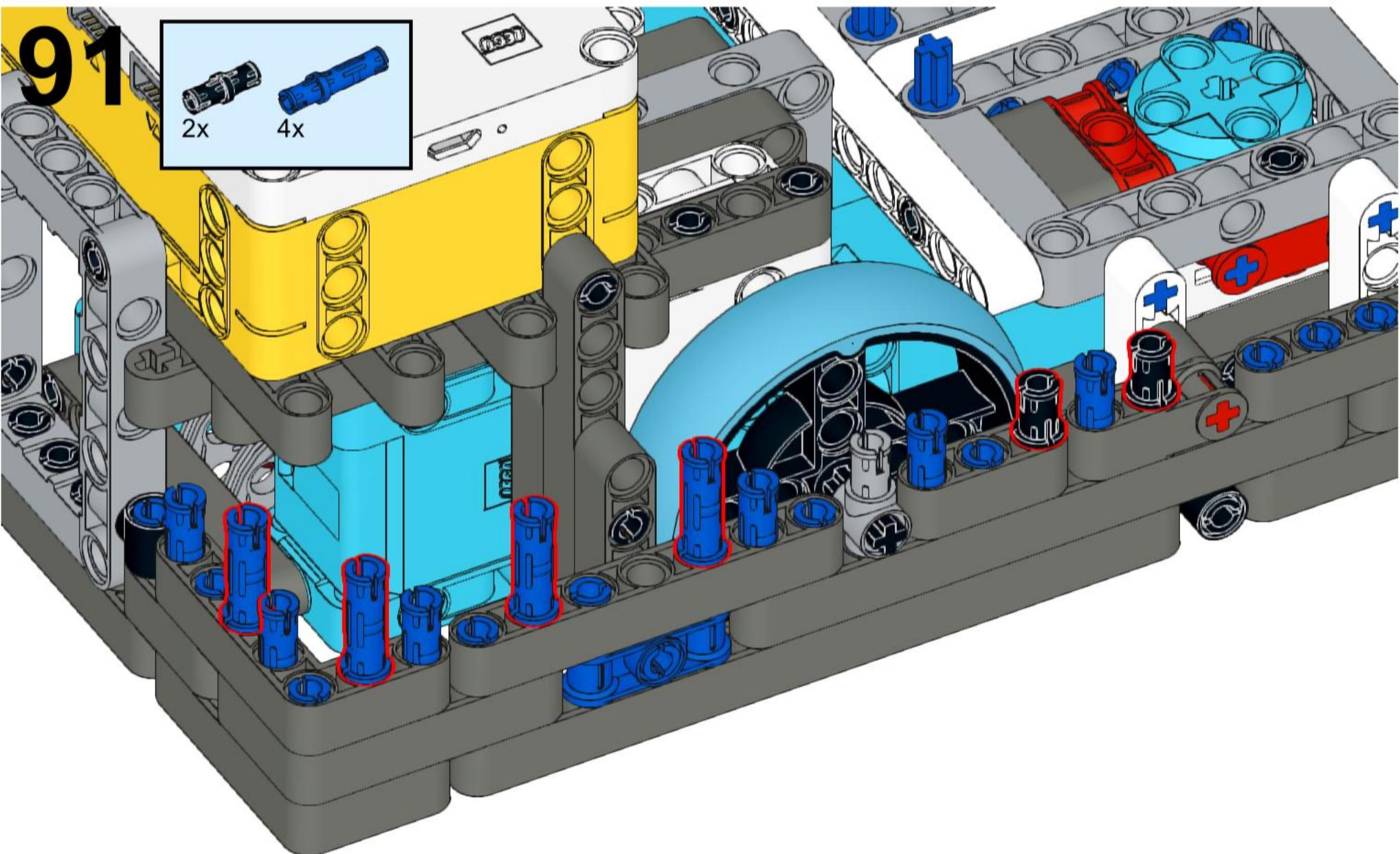


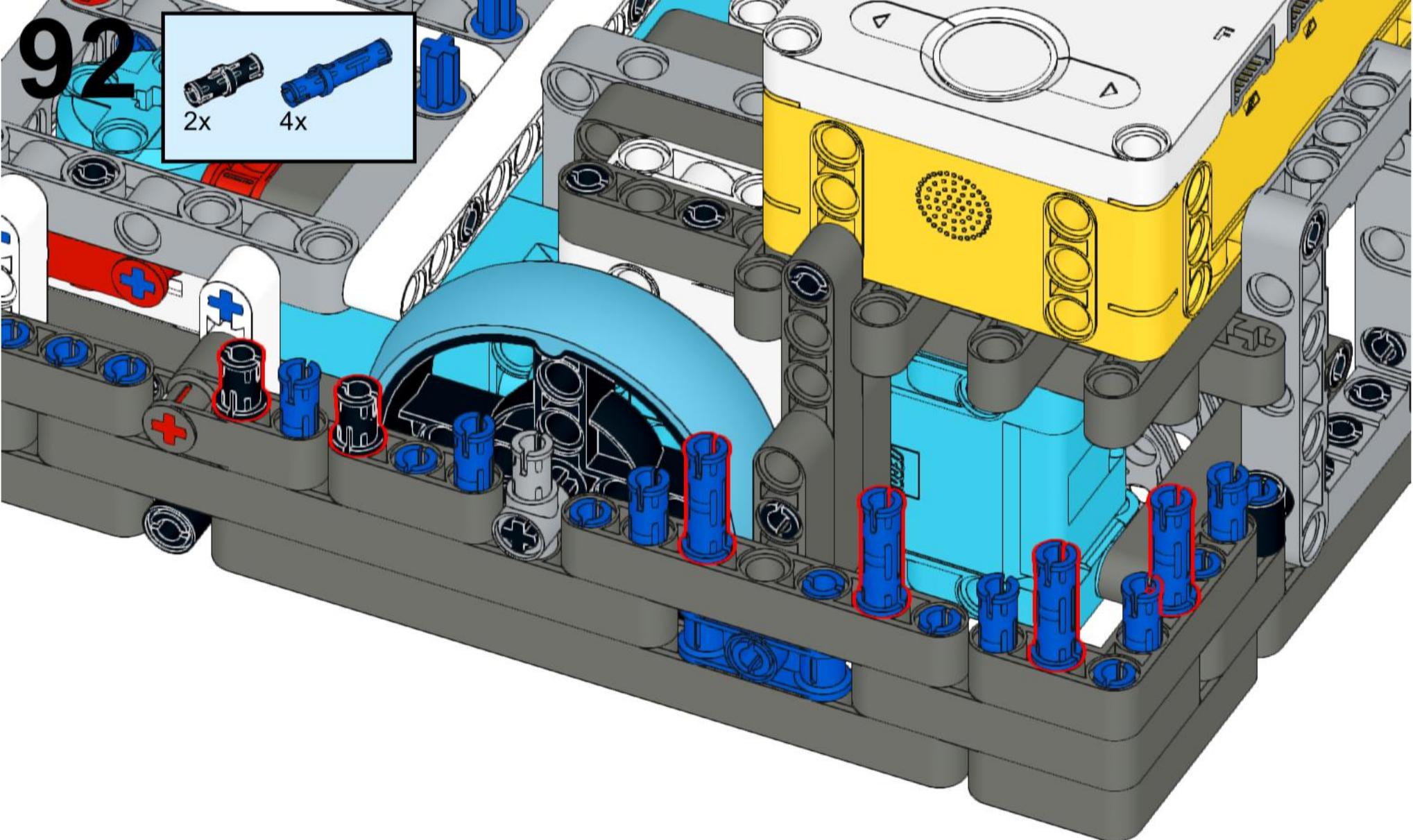
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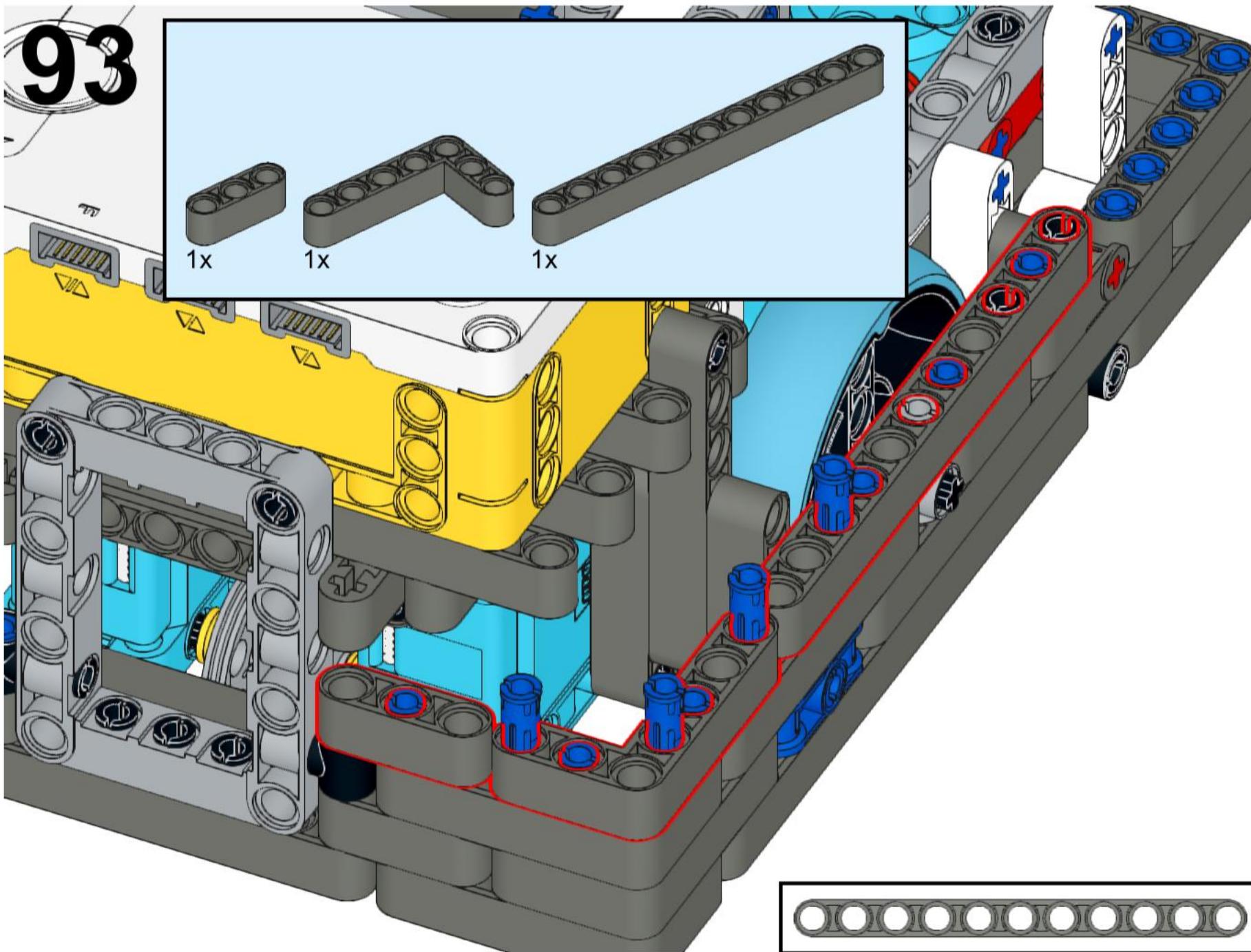
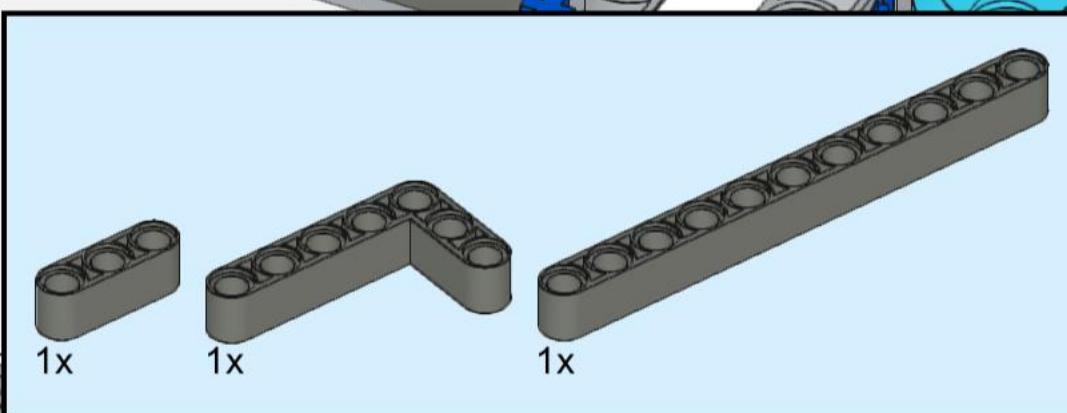
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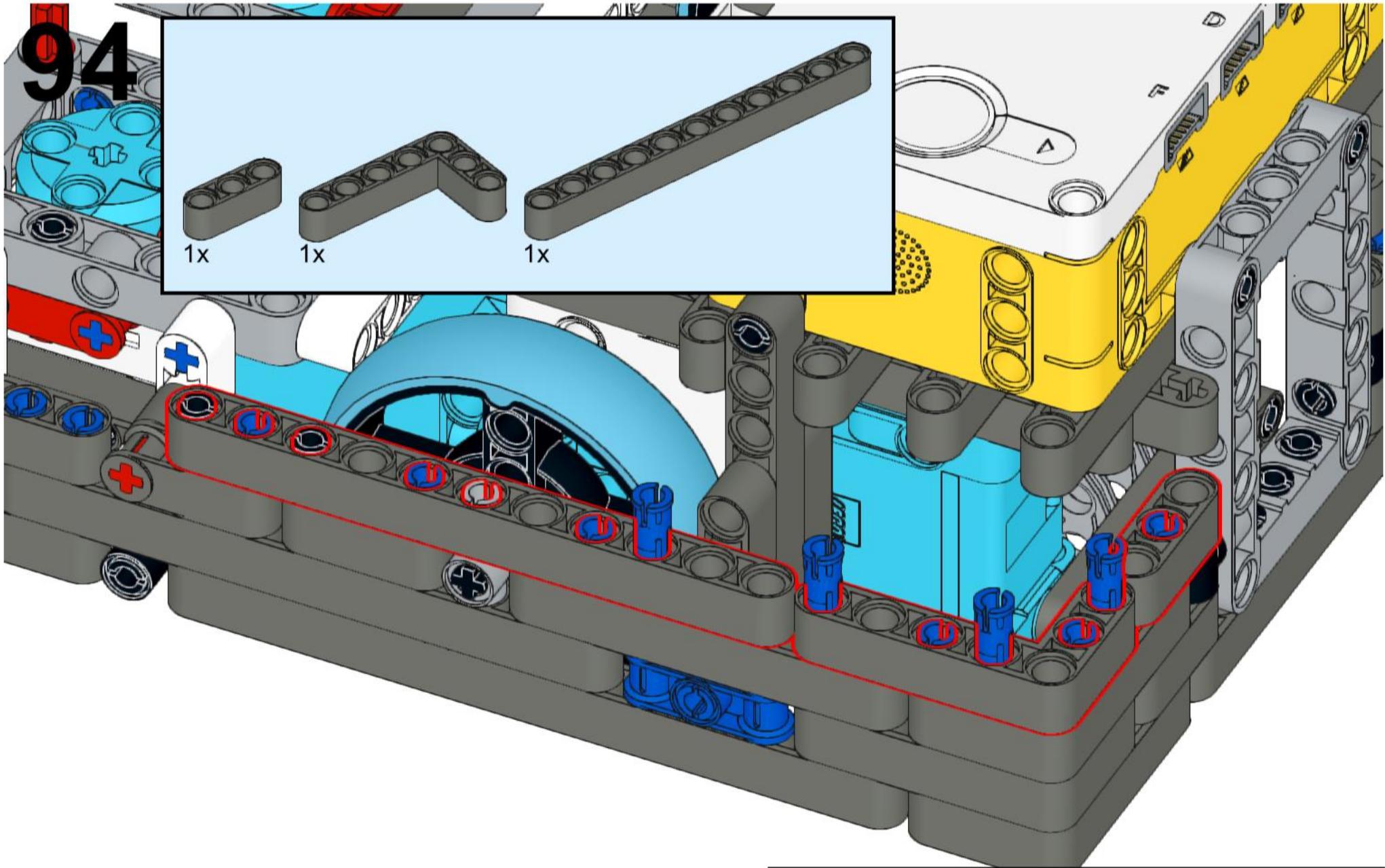
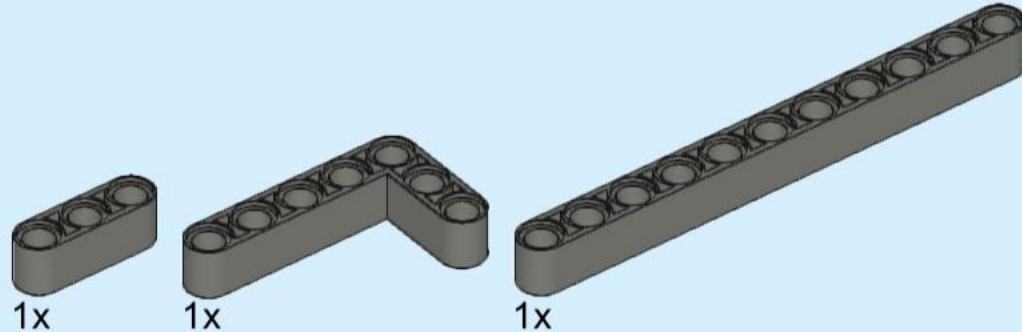


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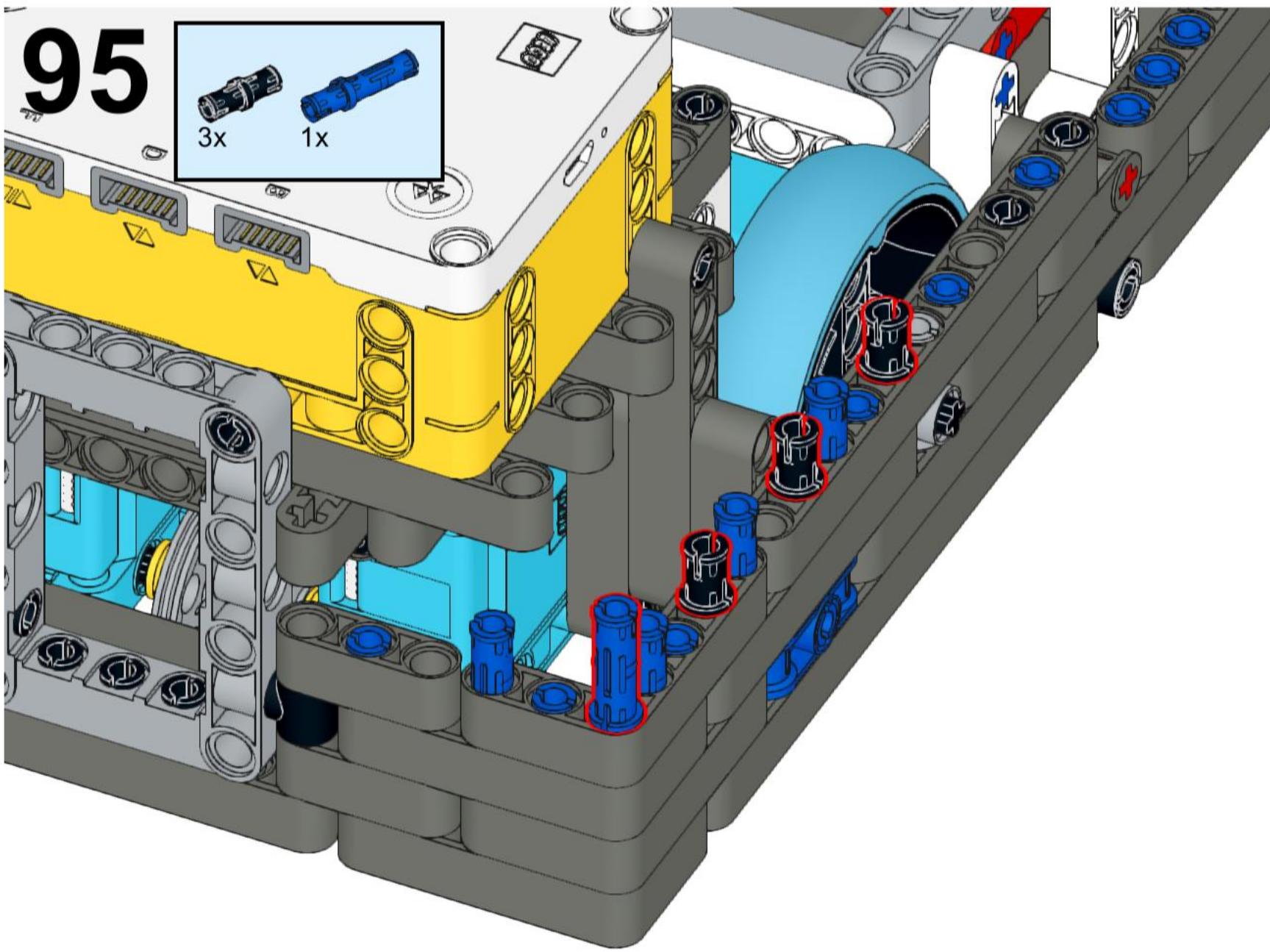
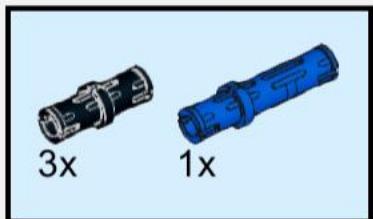
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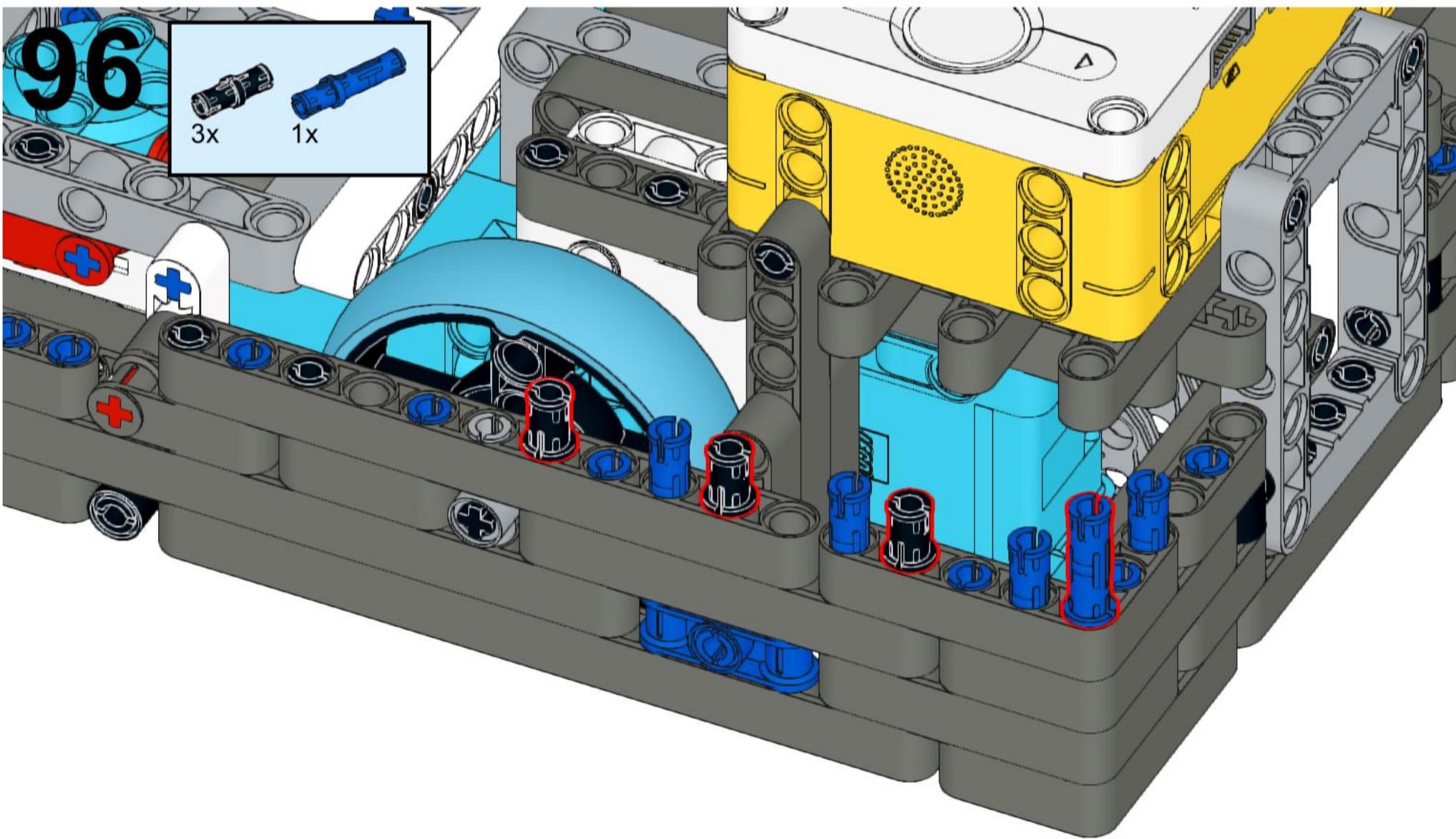
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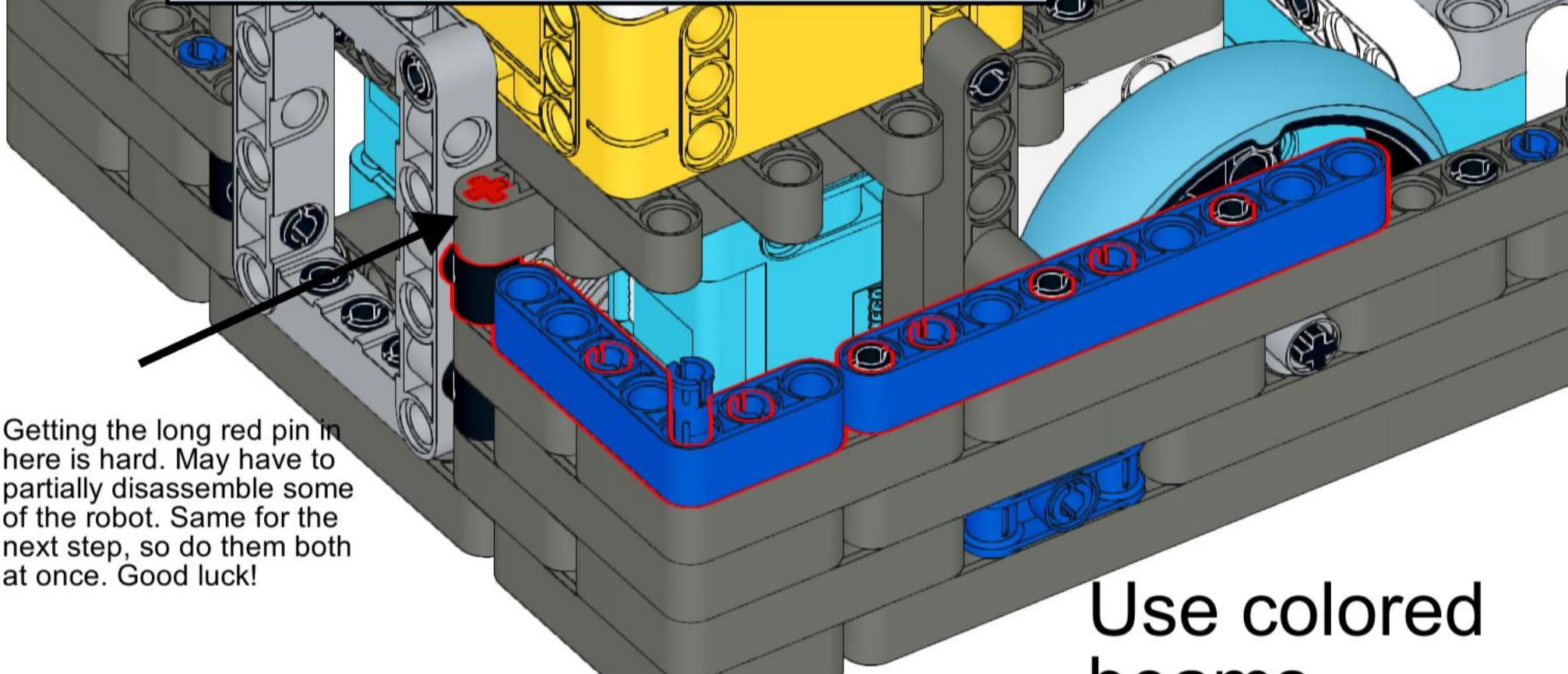
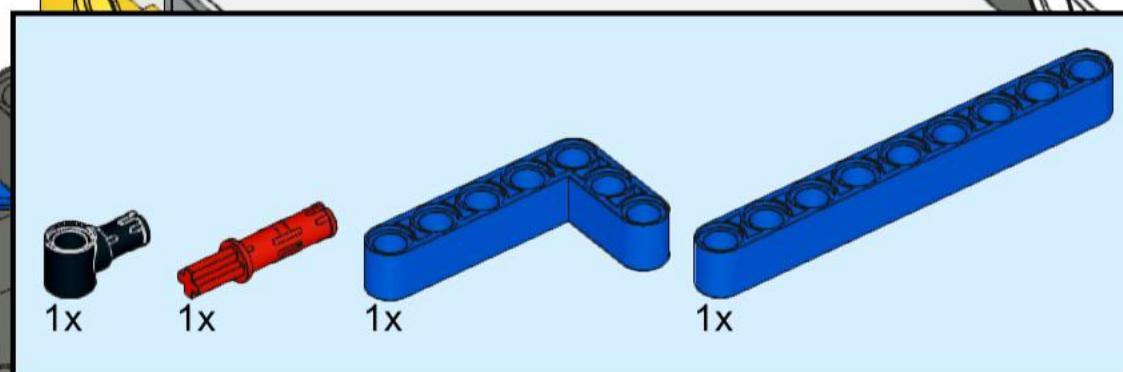
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97



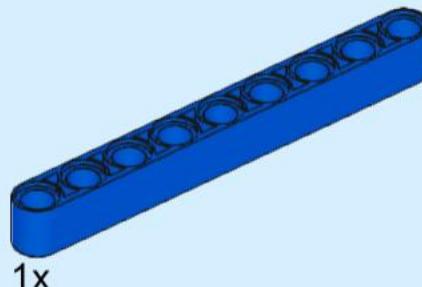
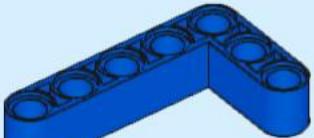
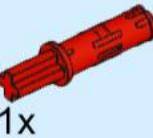
Getting the long red pin in here is hard. May have to partially disassemble some of the robot. Same for the next step, so do them both at once. Good luck!

Use colored beams.



9 1:1

98

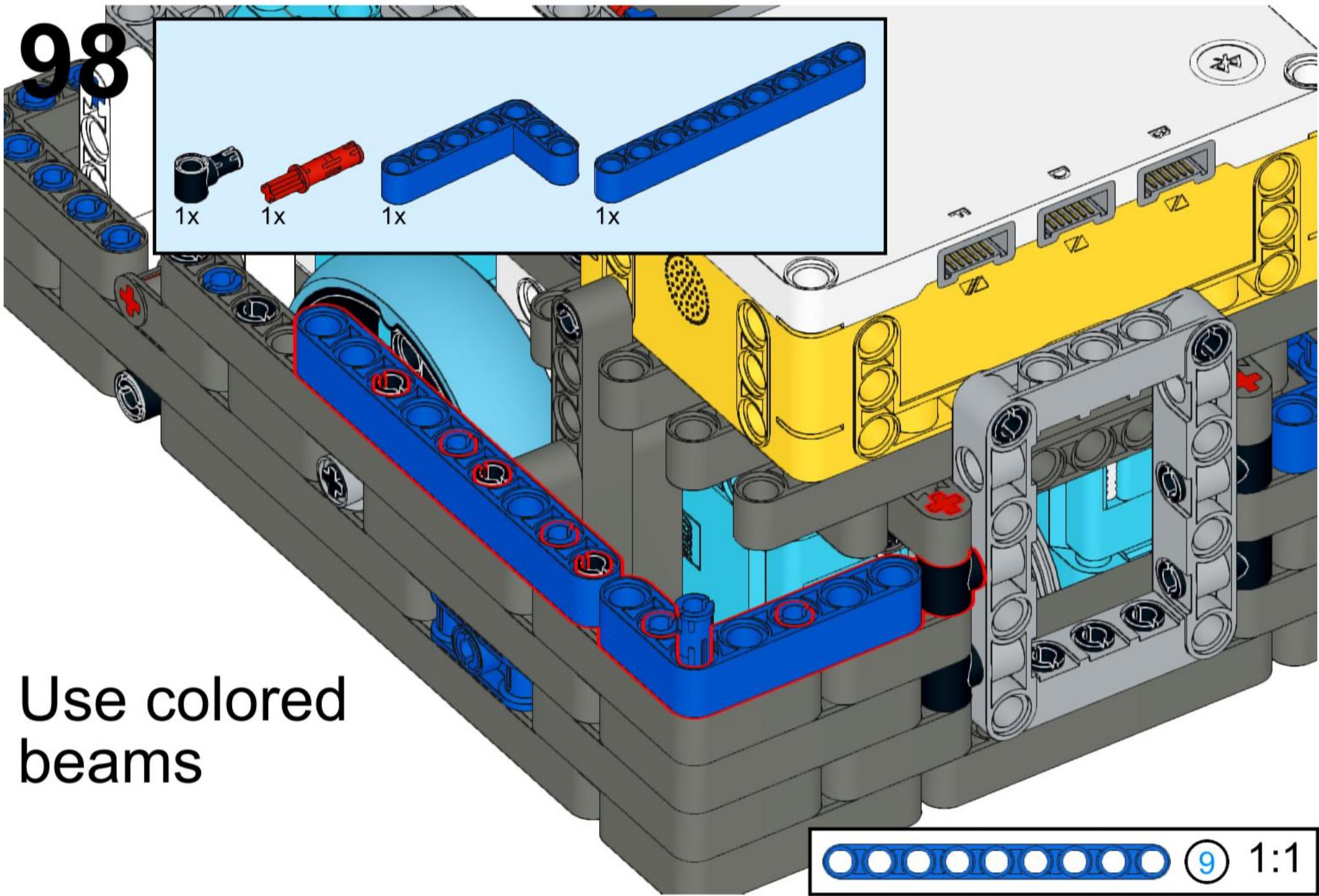


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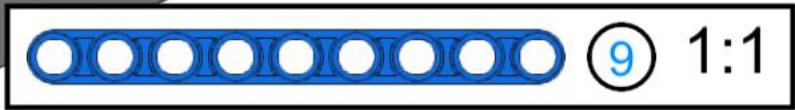
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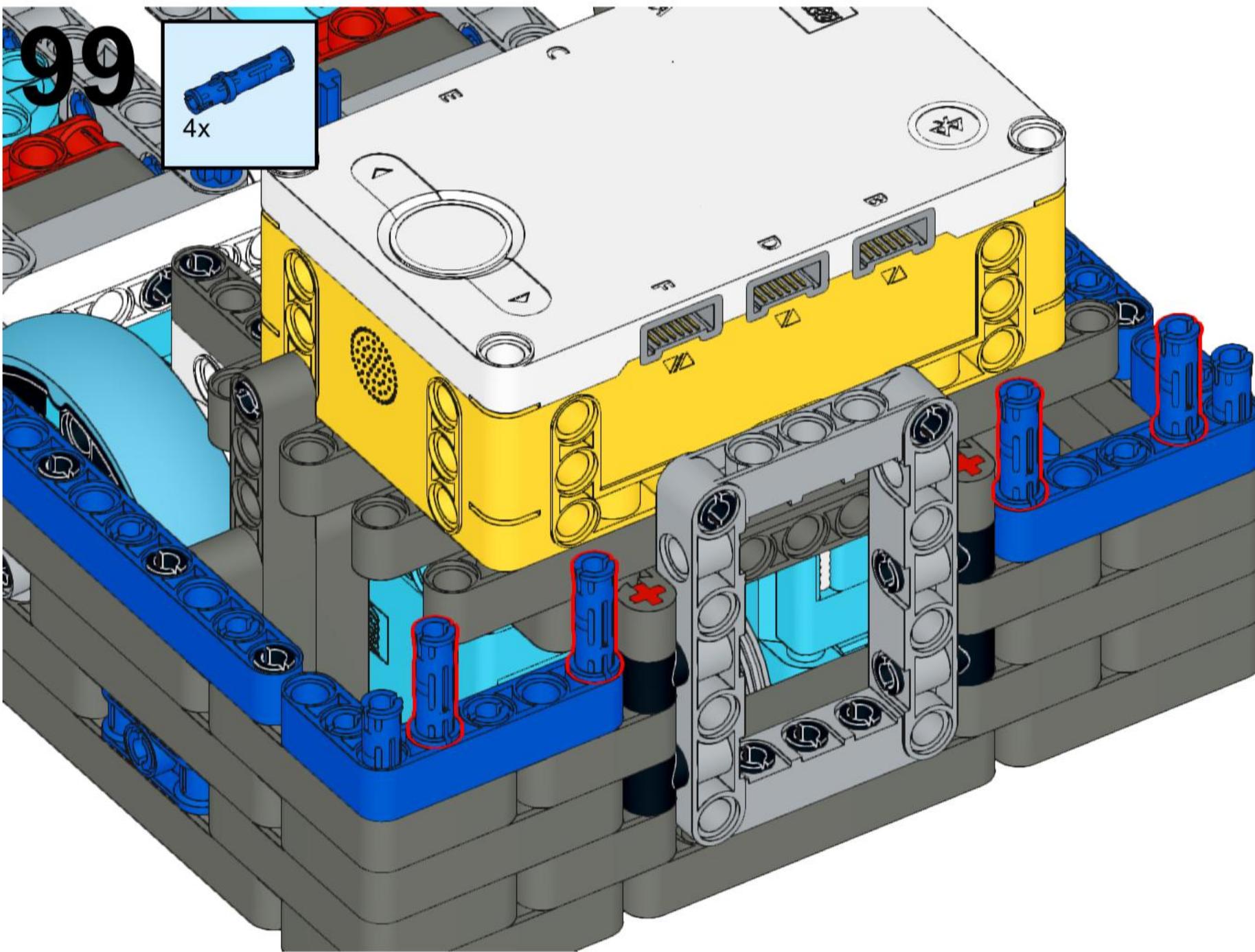
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1x



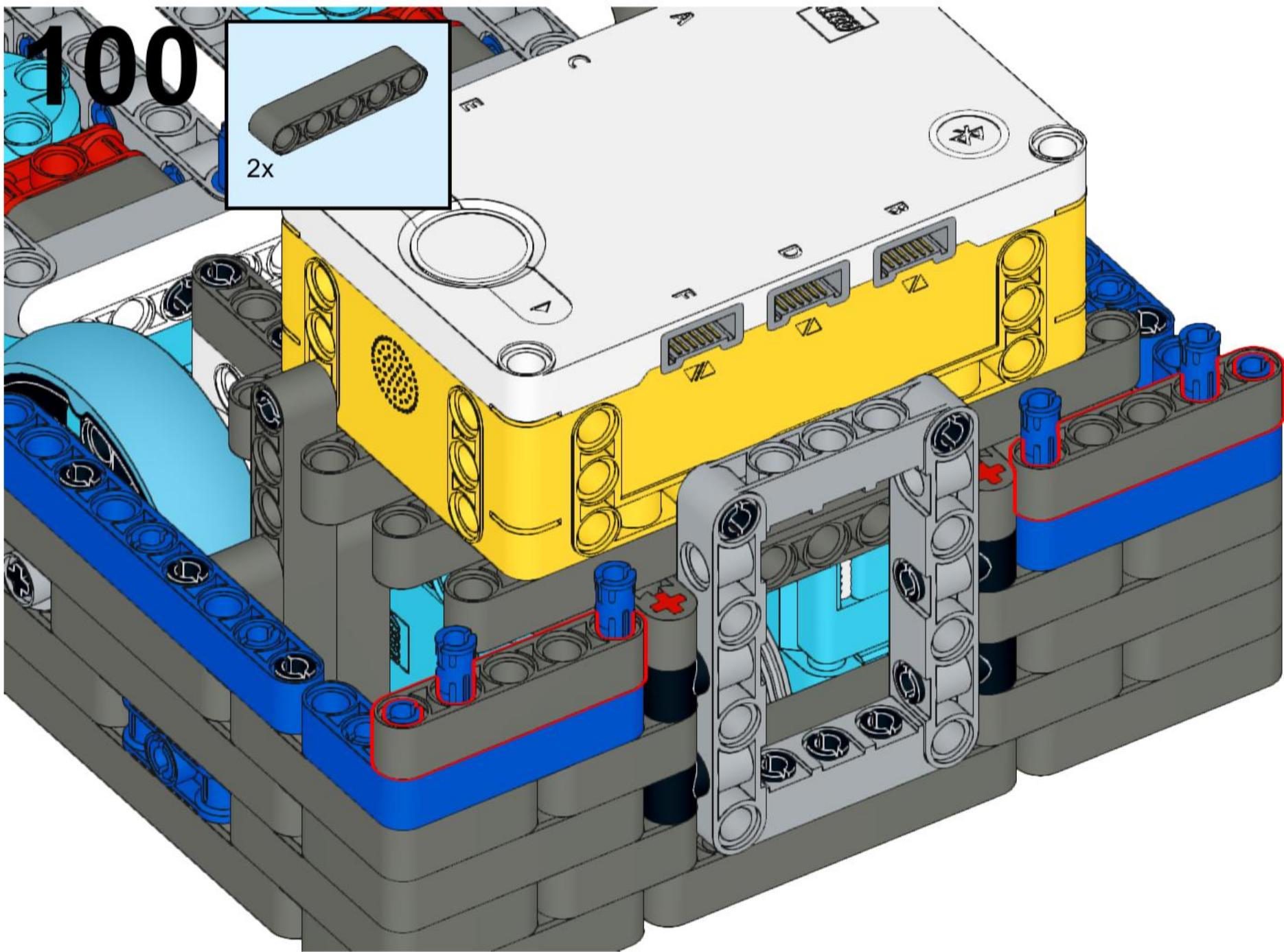
Use colored
beams

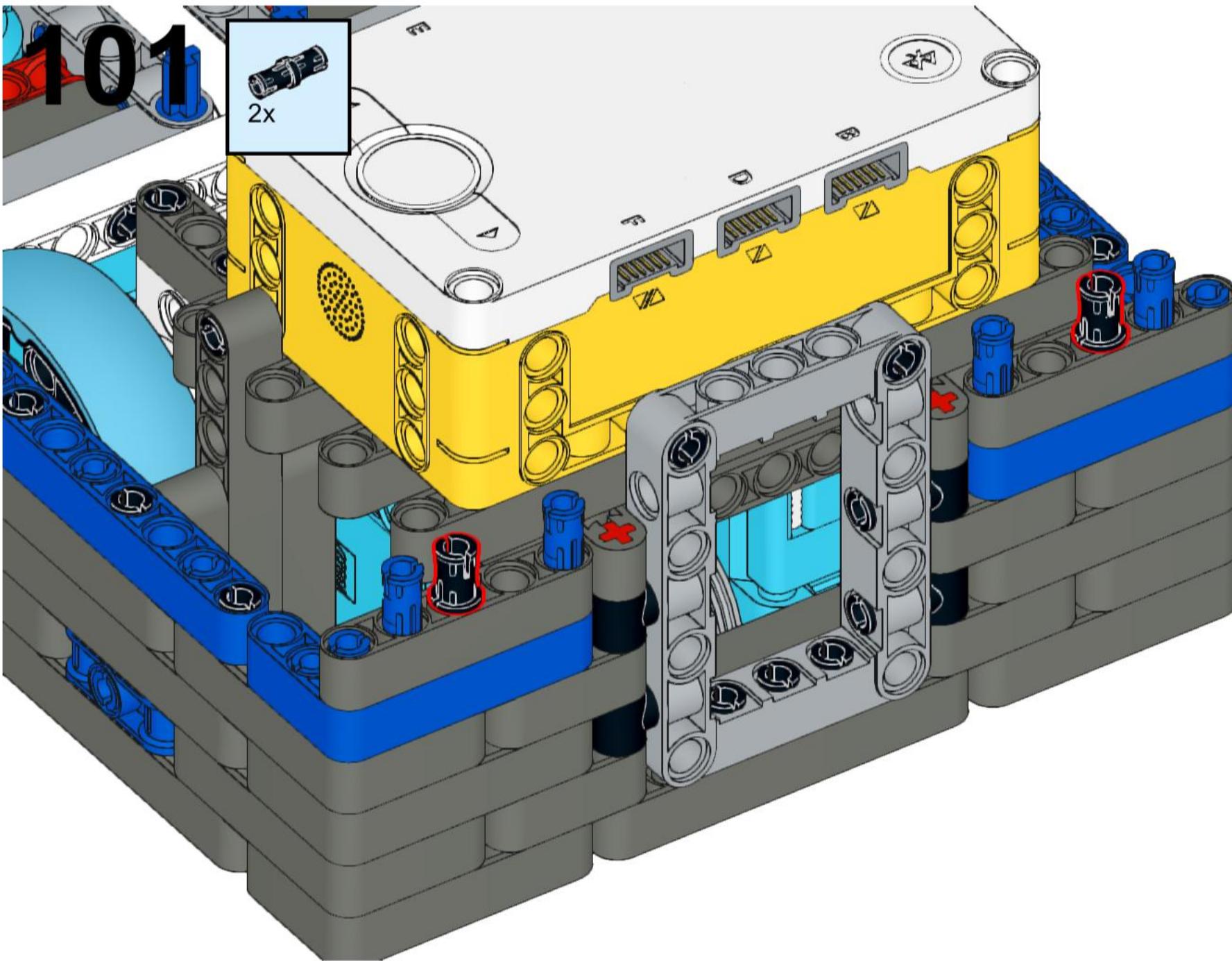




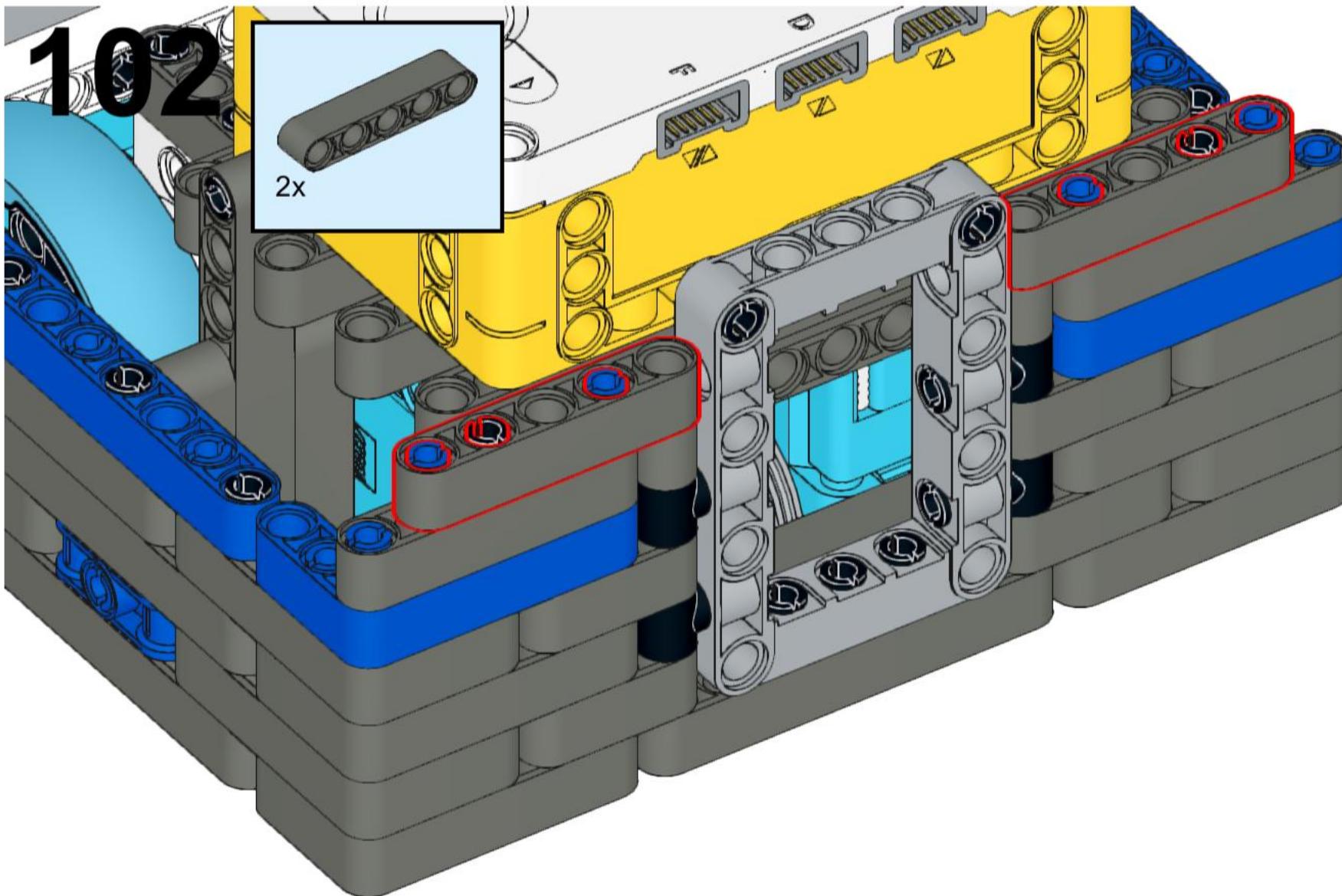
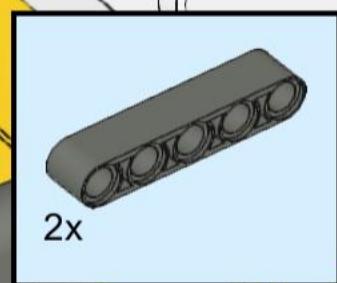
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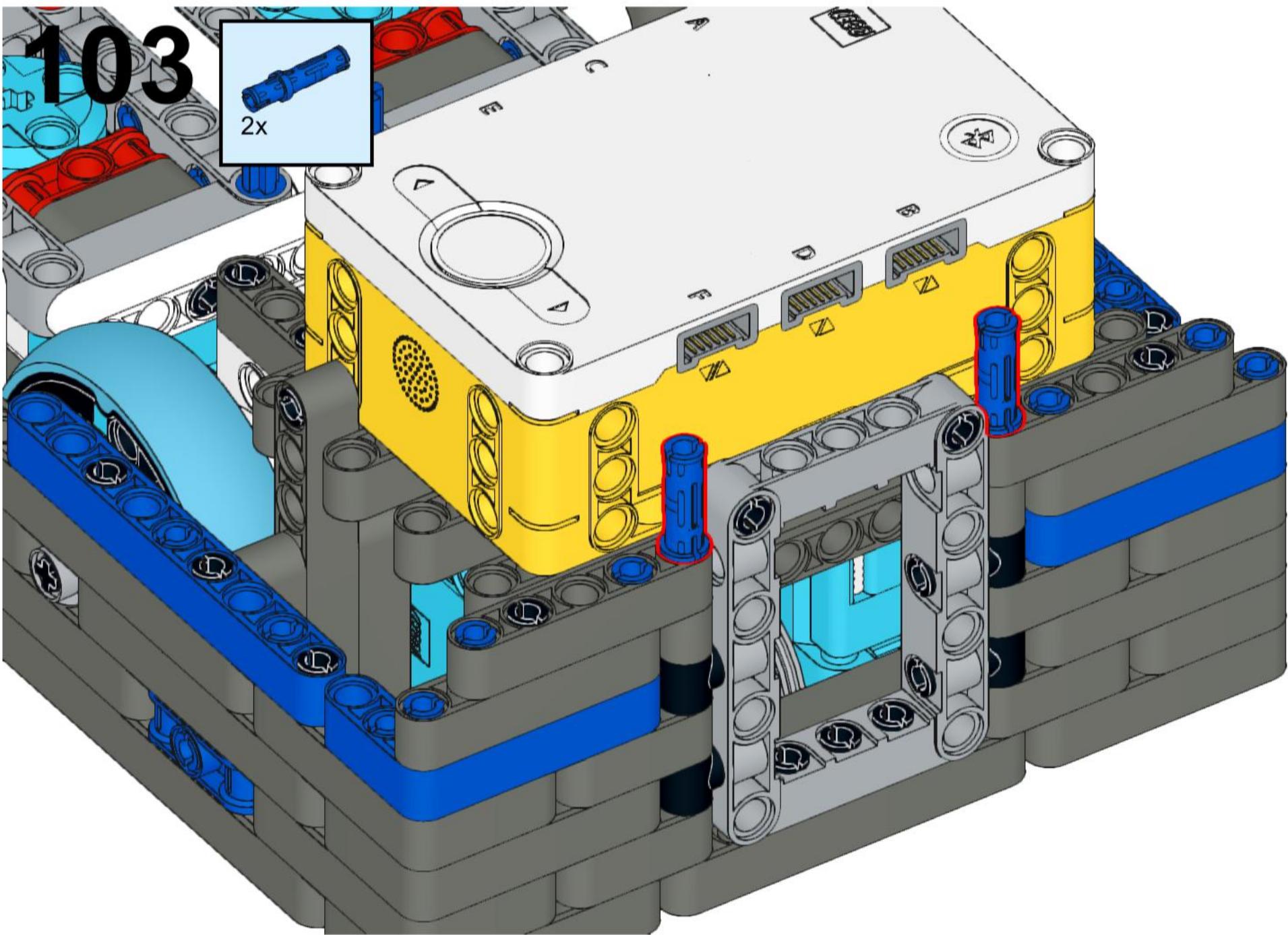
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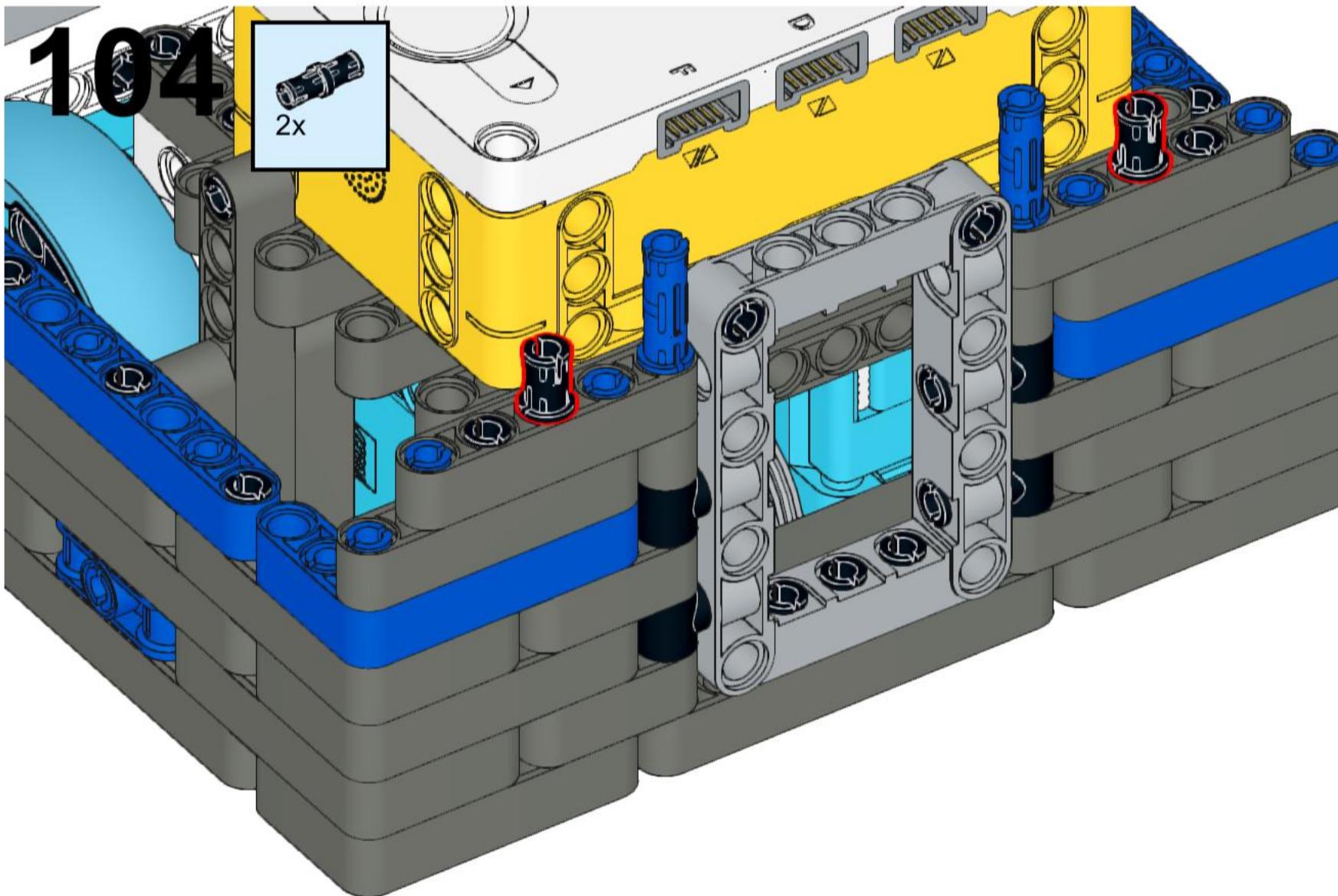
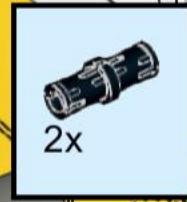


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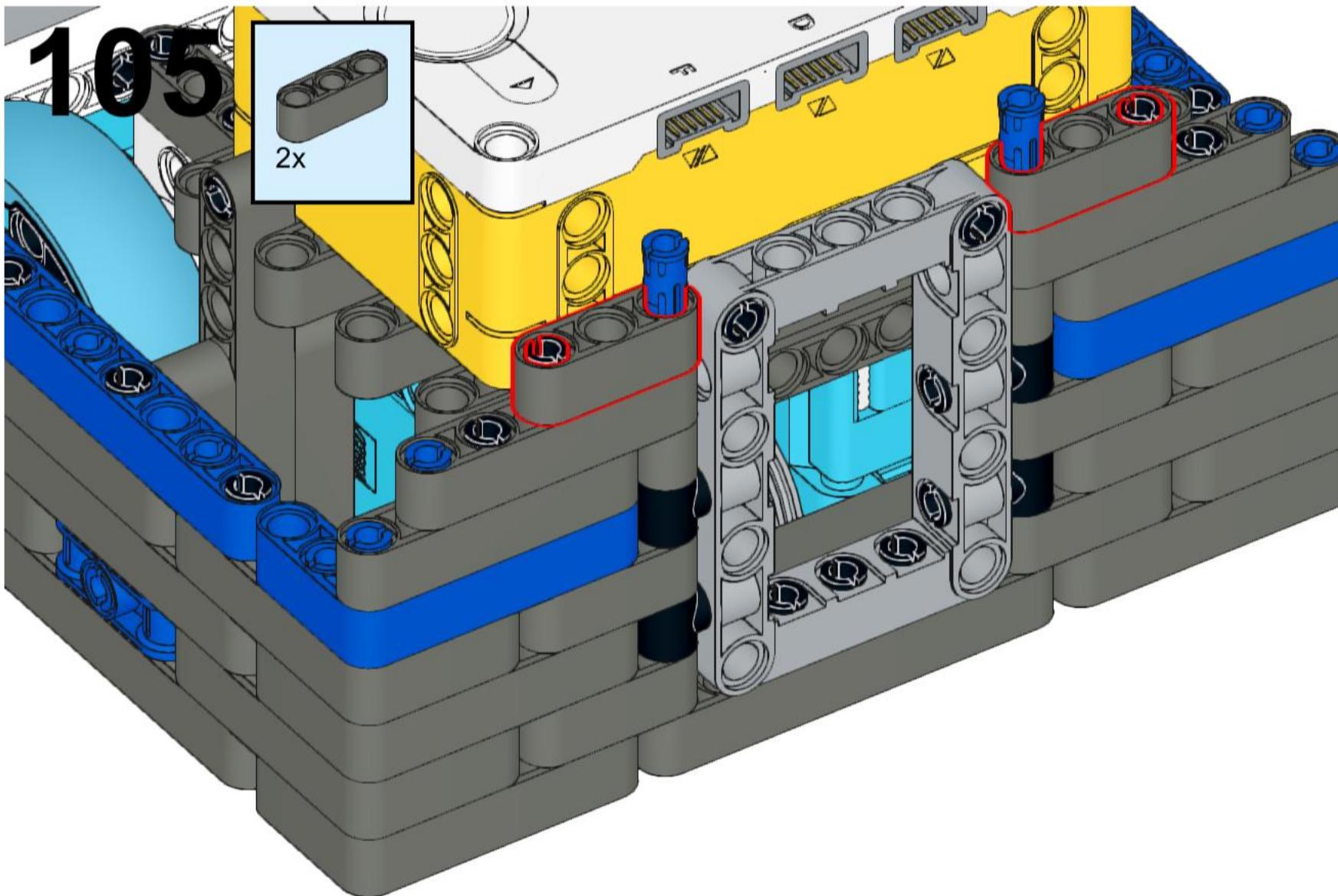
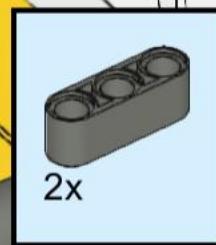


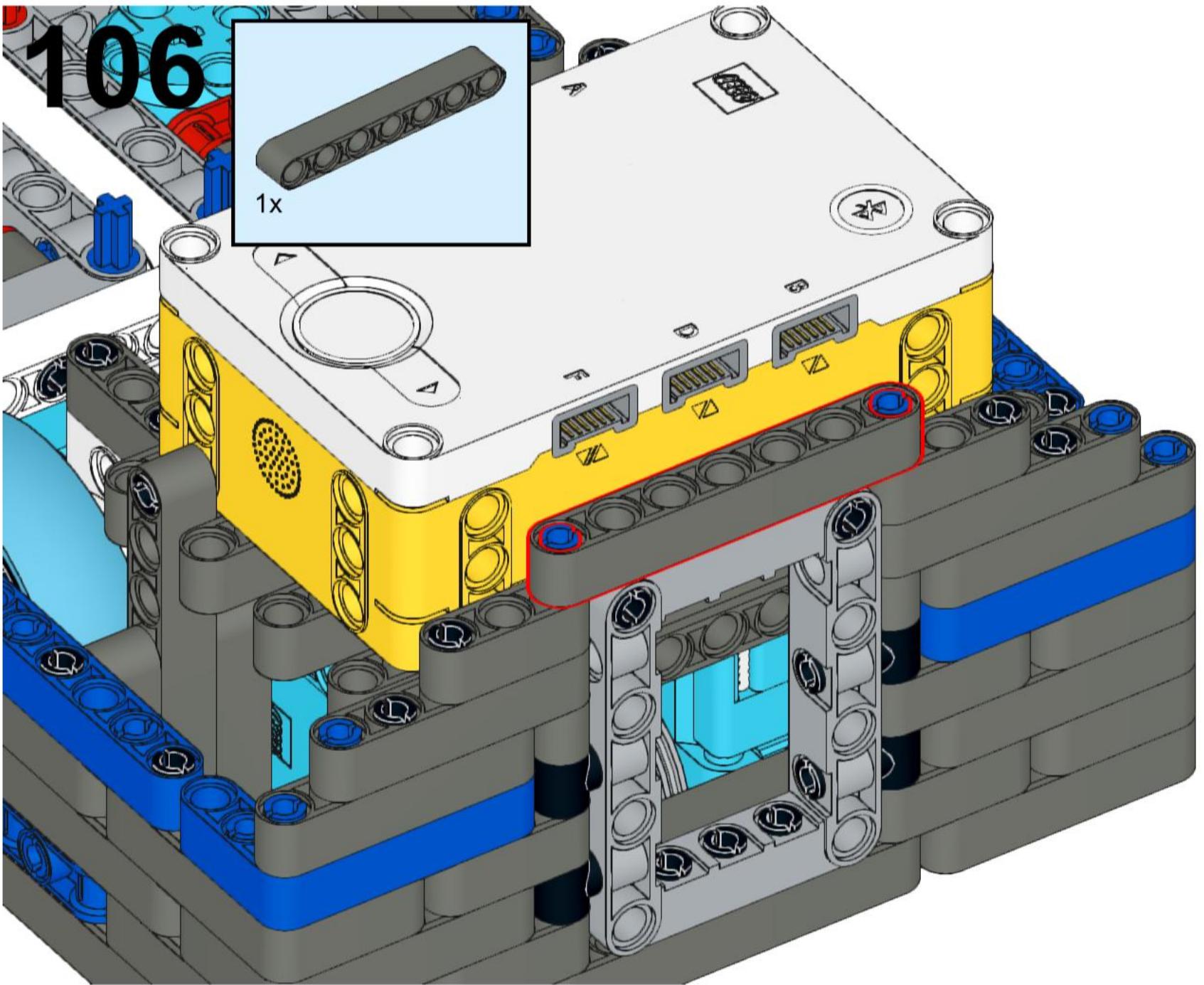


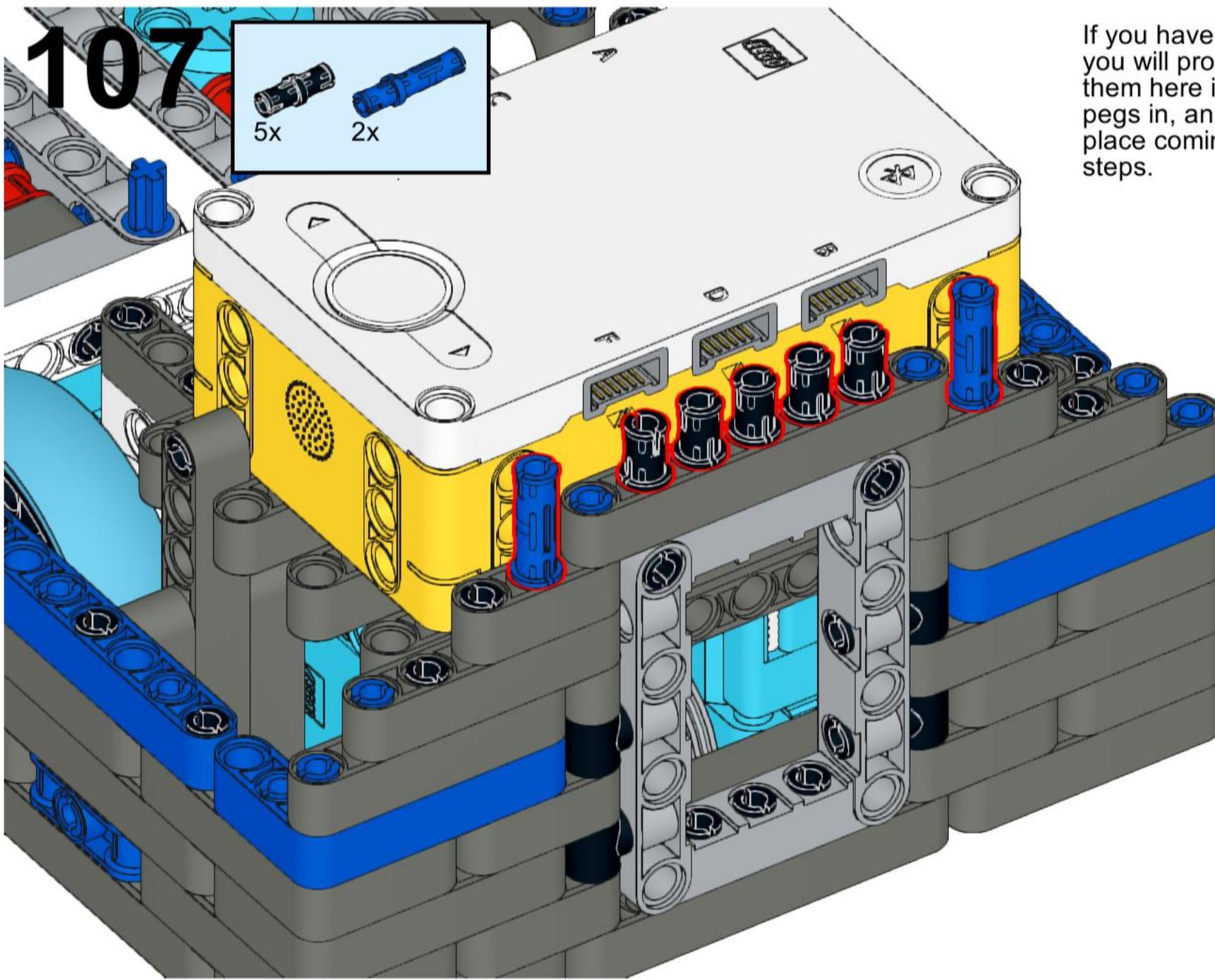
104



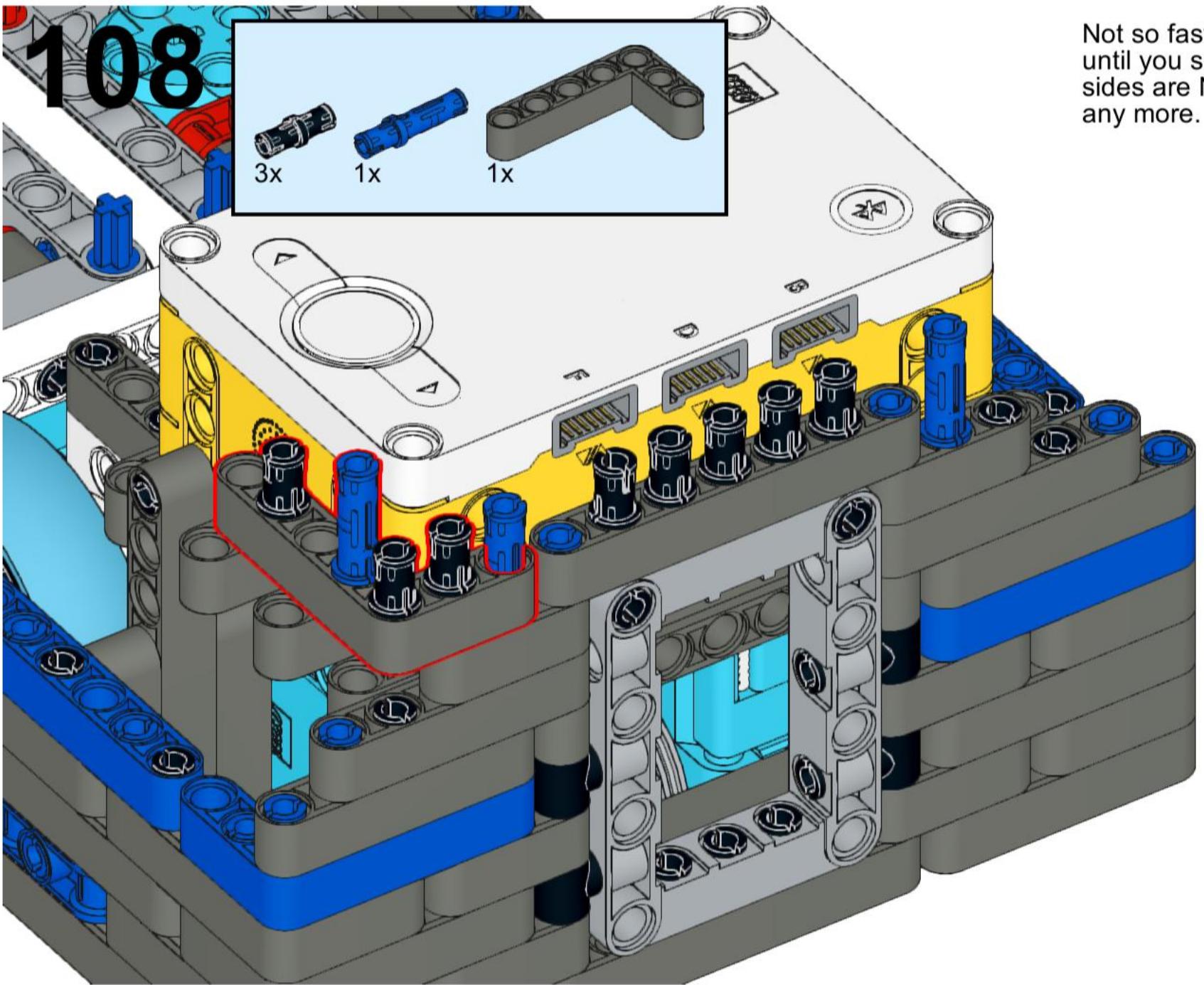
105





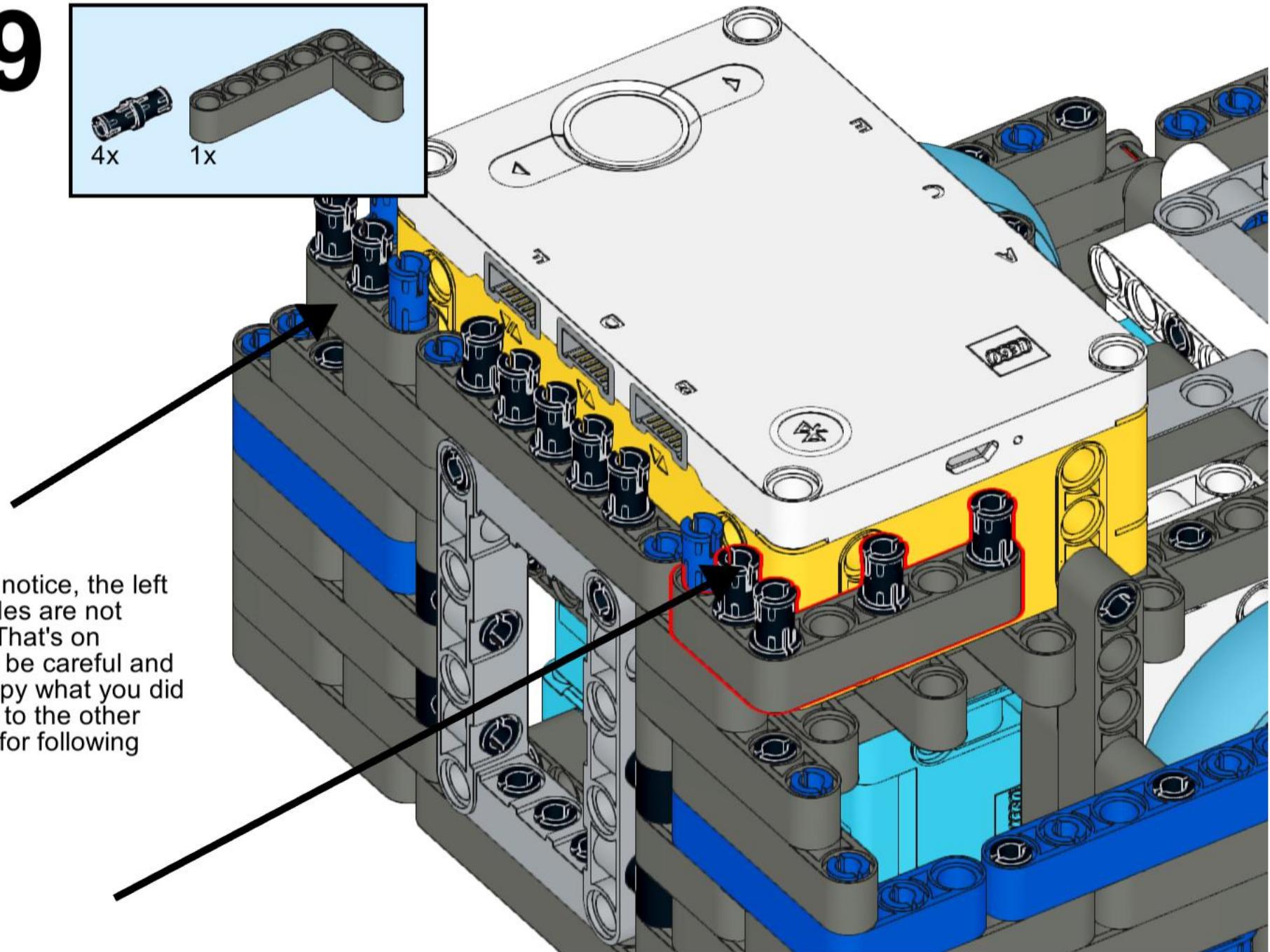
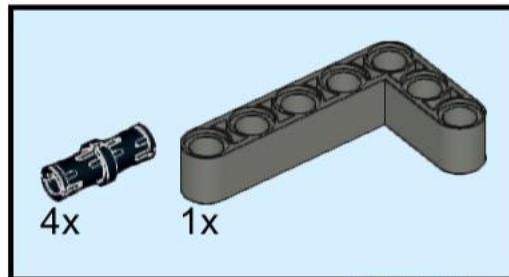
107

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.



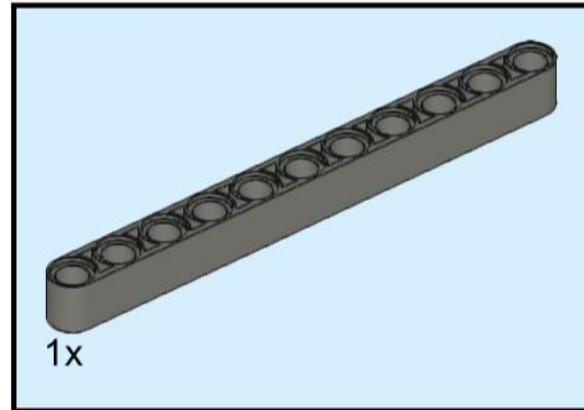
Not so fast! Don't go ahead until you see the next step. The sides are NOT SYMMETRIC any more.

109

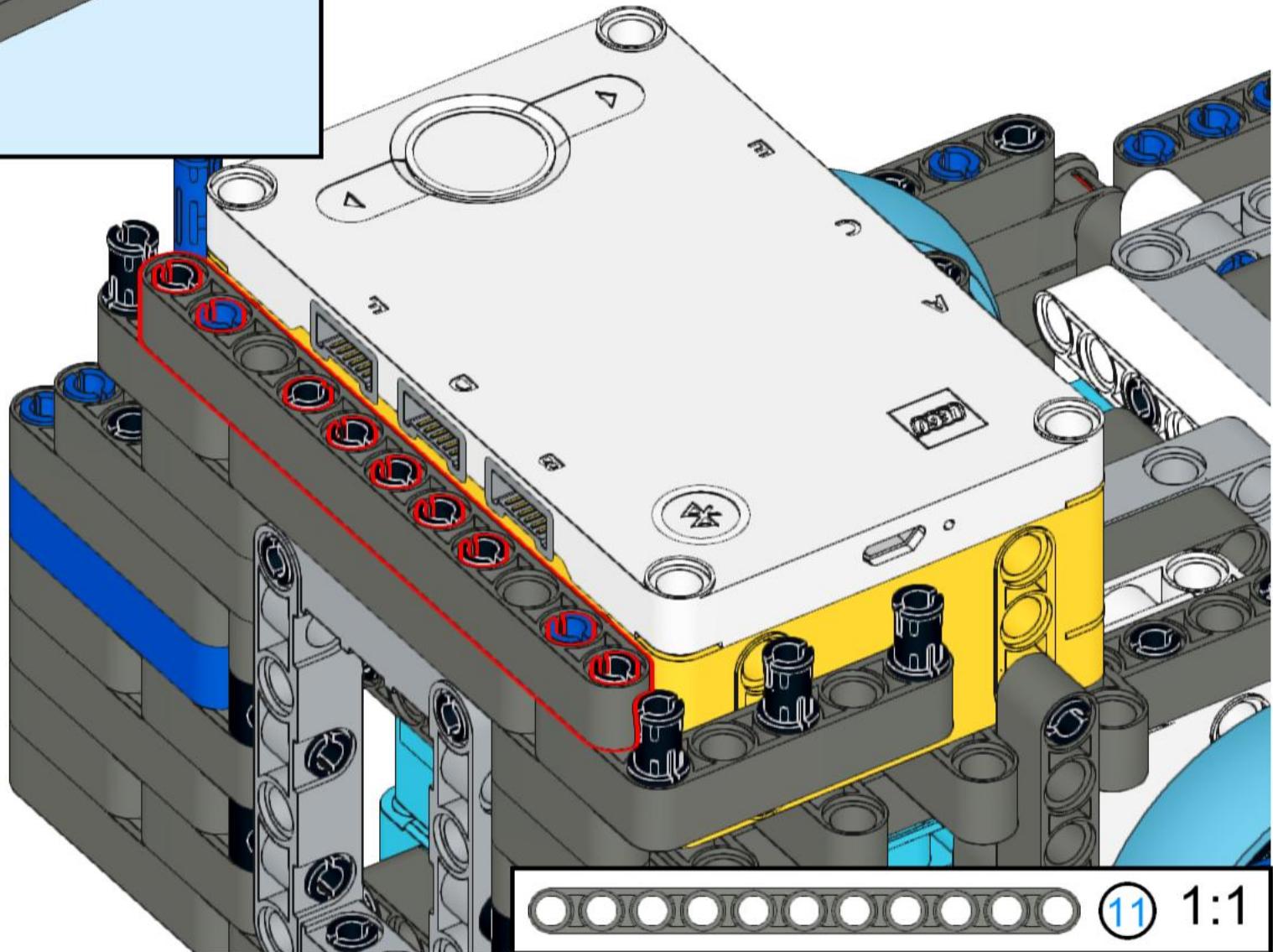


If you didn't notice, the left and right sides are not symmetric. That's on purpose, so be careful and don't just copy what you did on one side to the other side. Same for following steps.

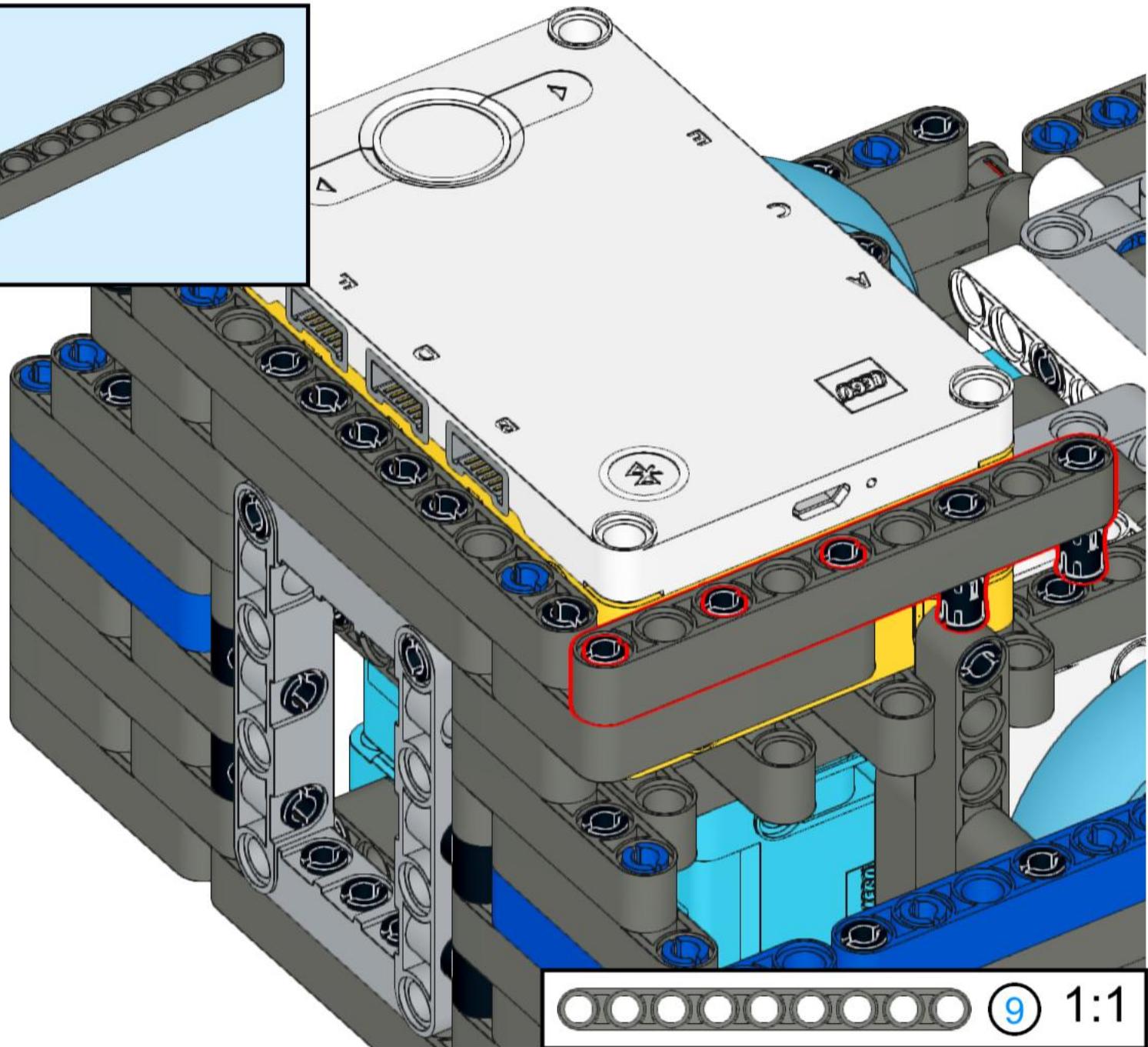
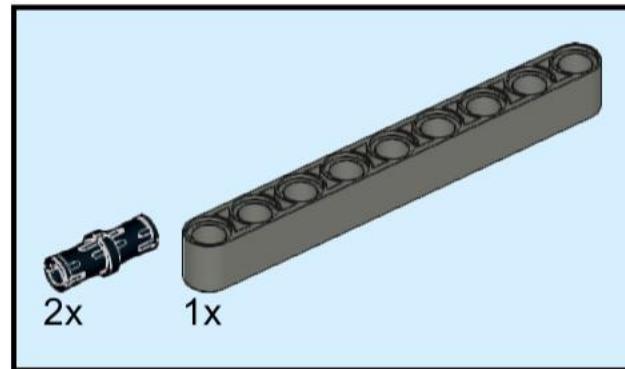
110



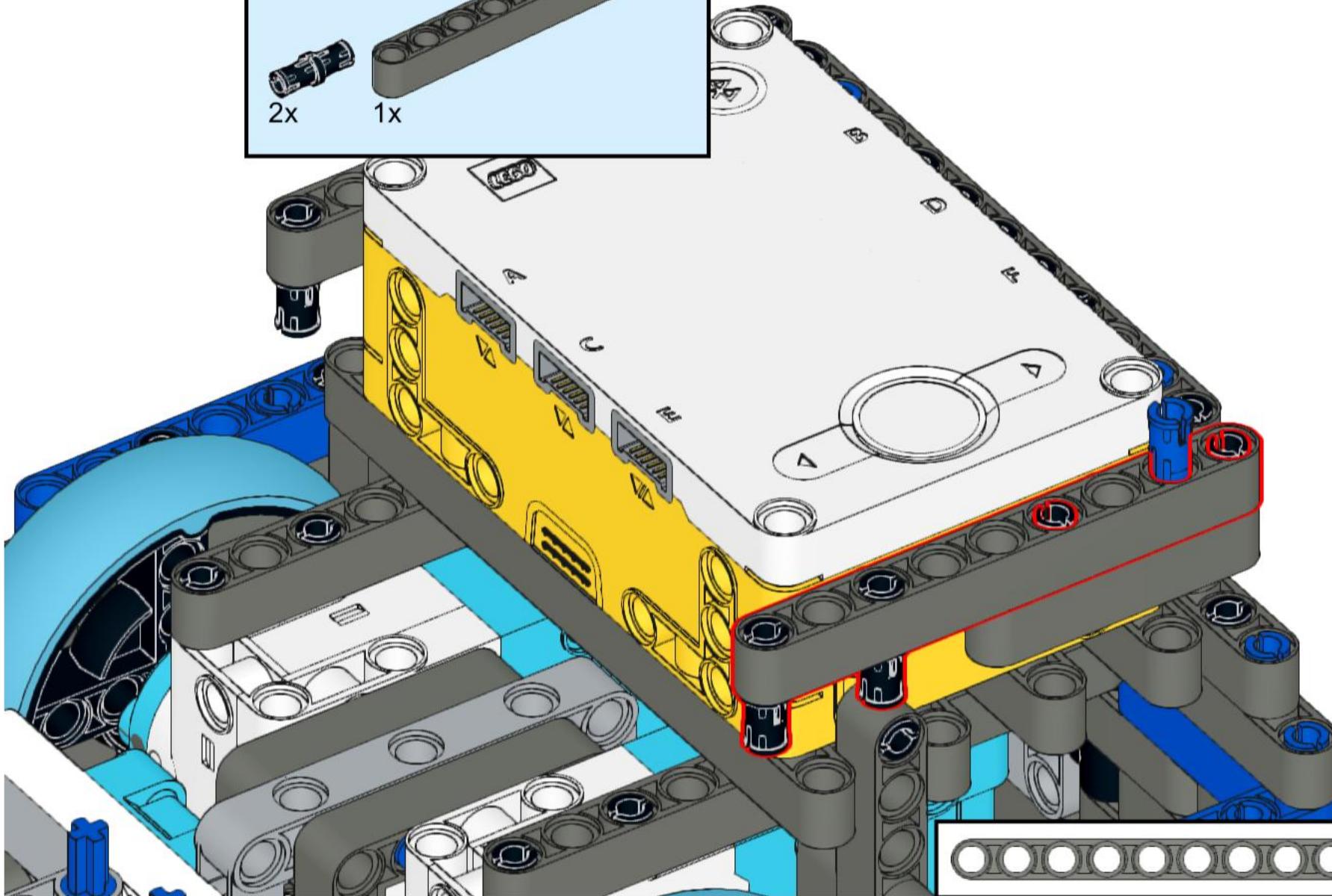
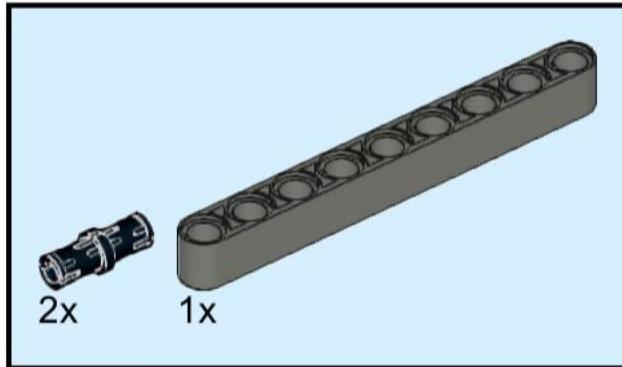
Plug the wires back in after installing the beam here.



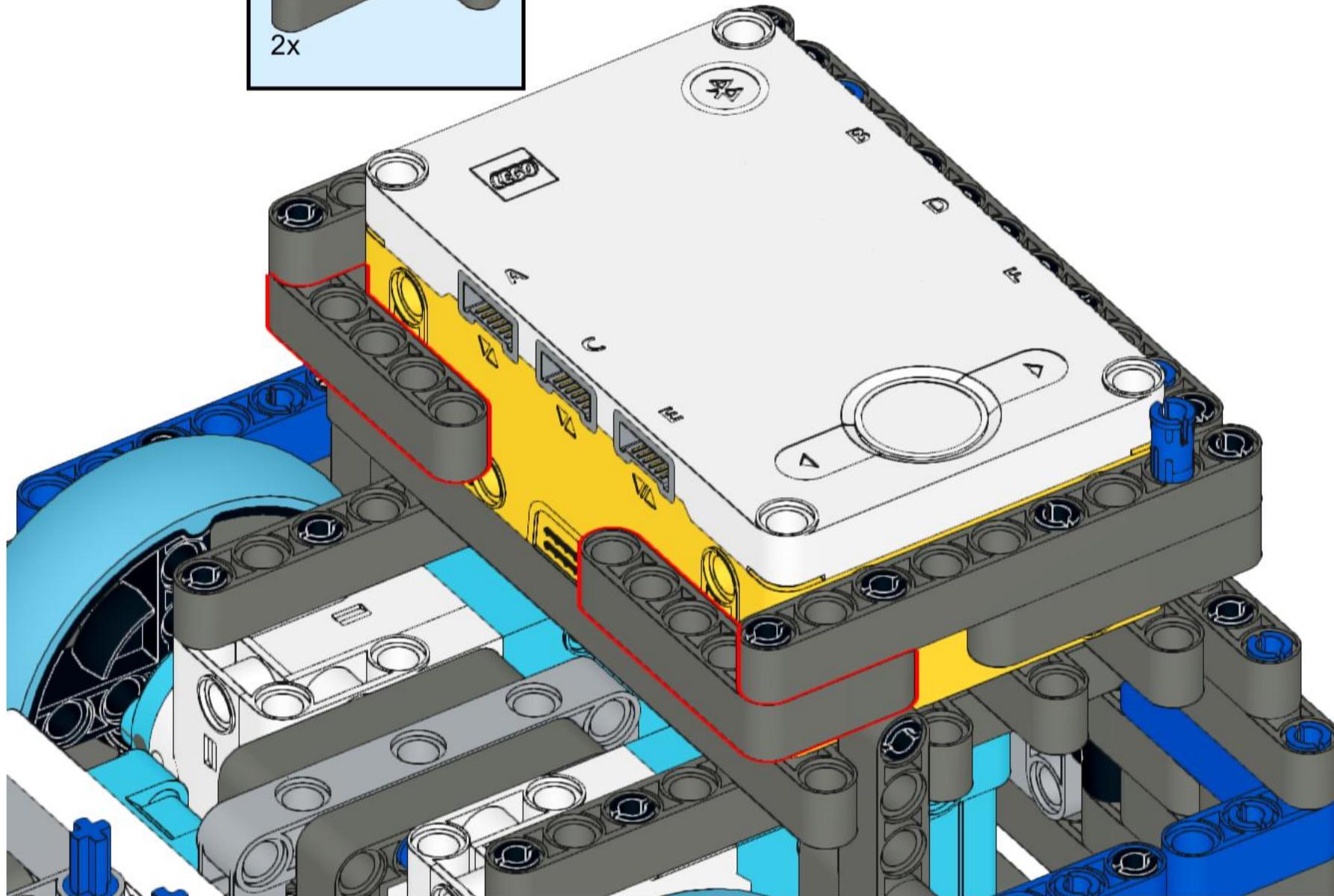
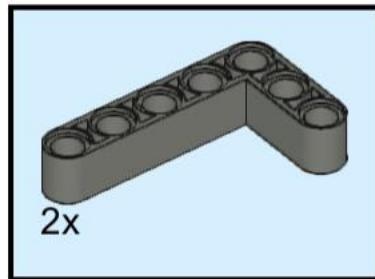
111



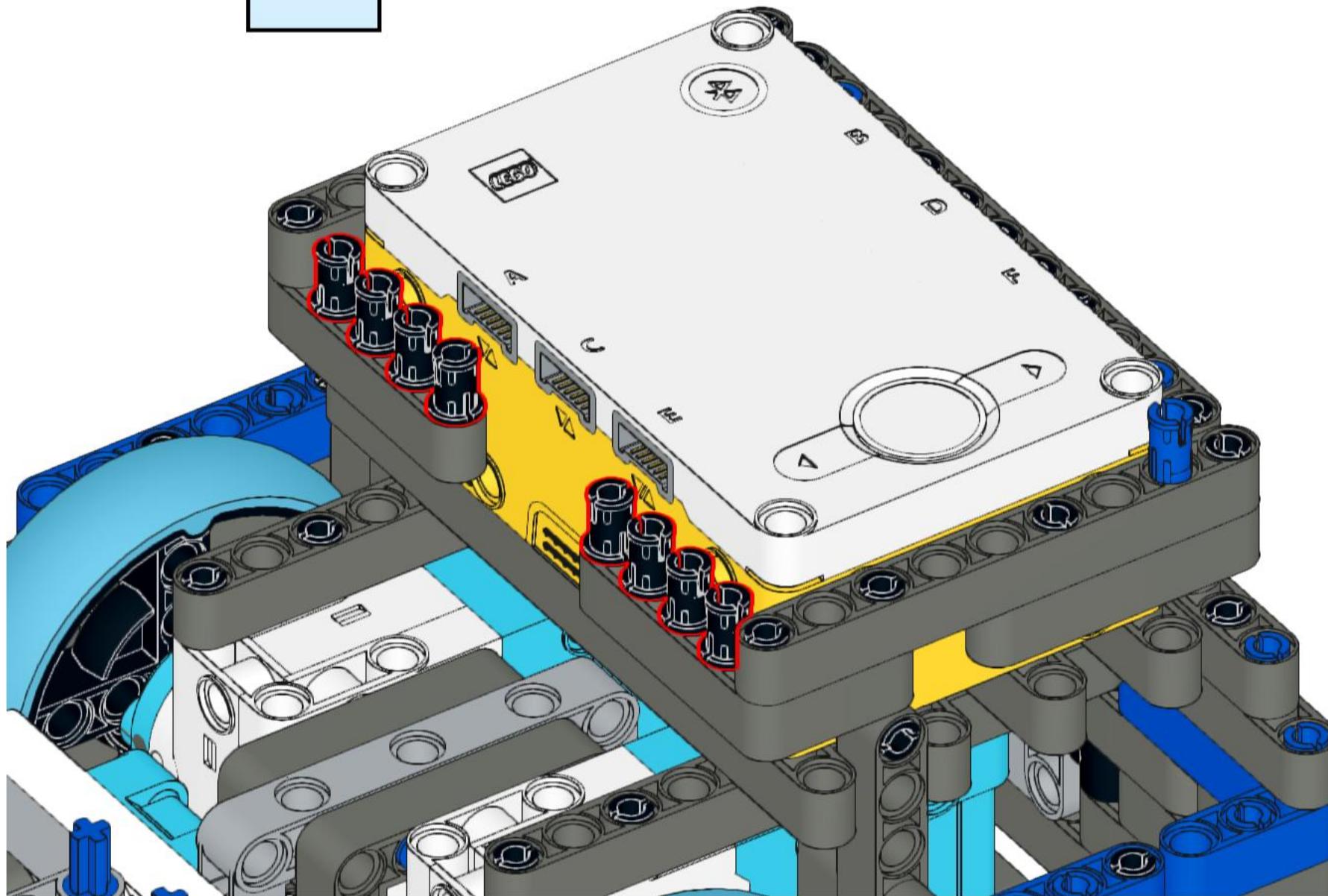
112



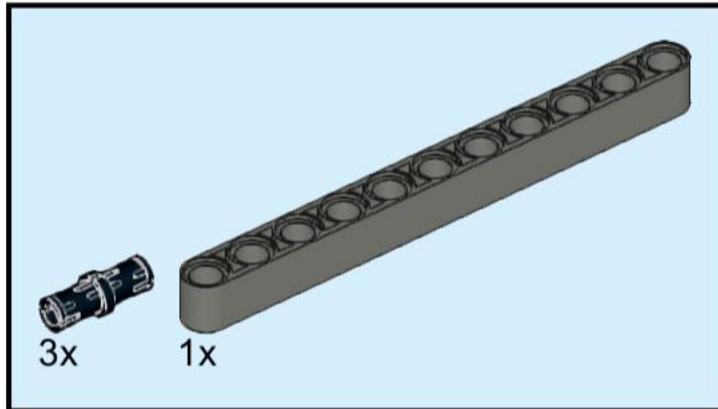
113



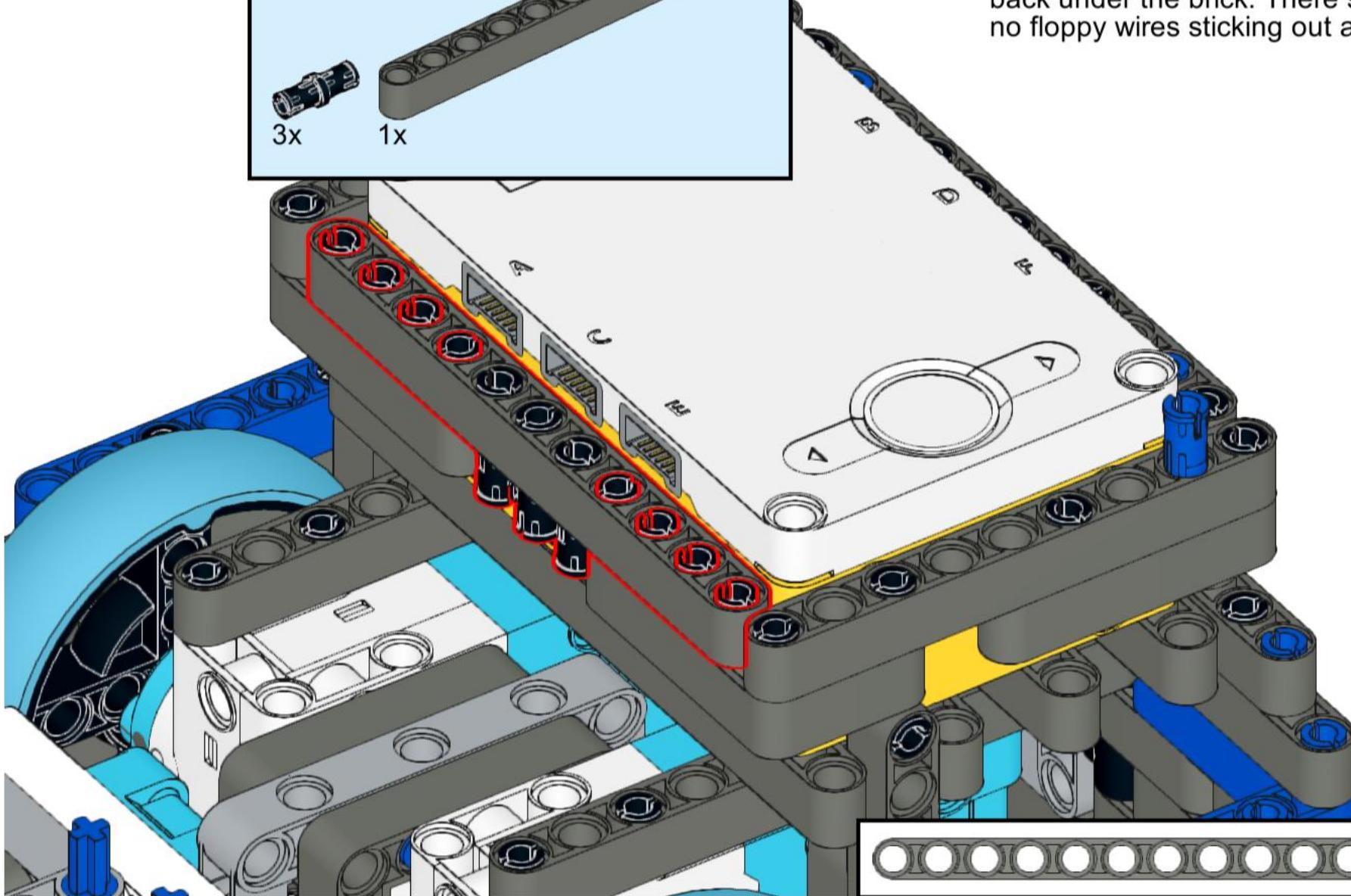
114



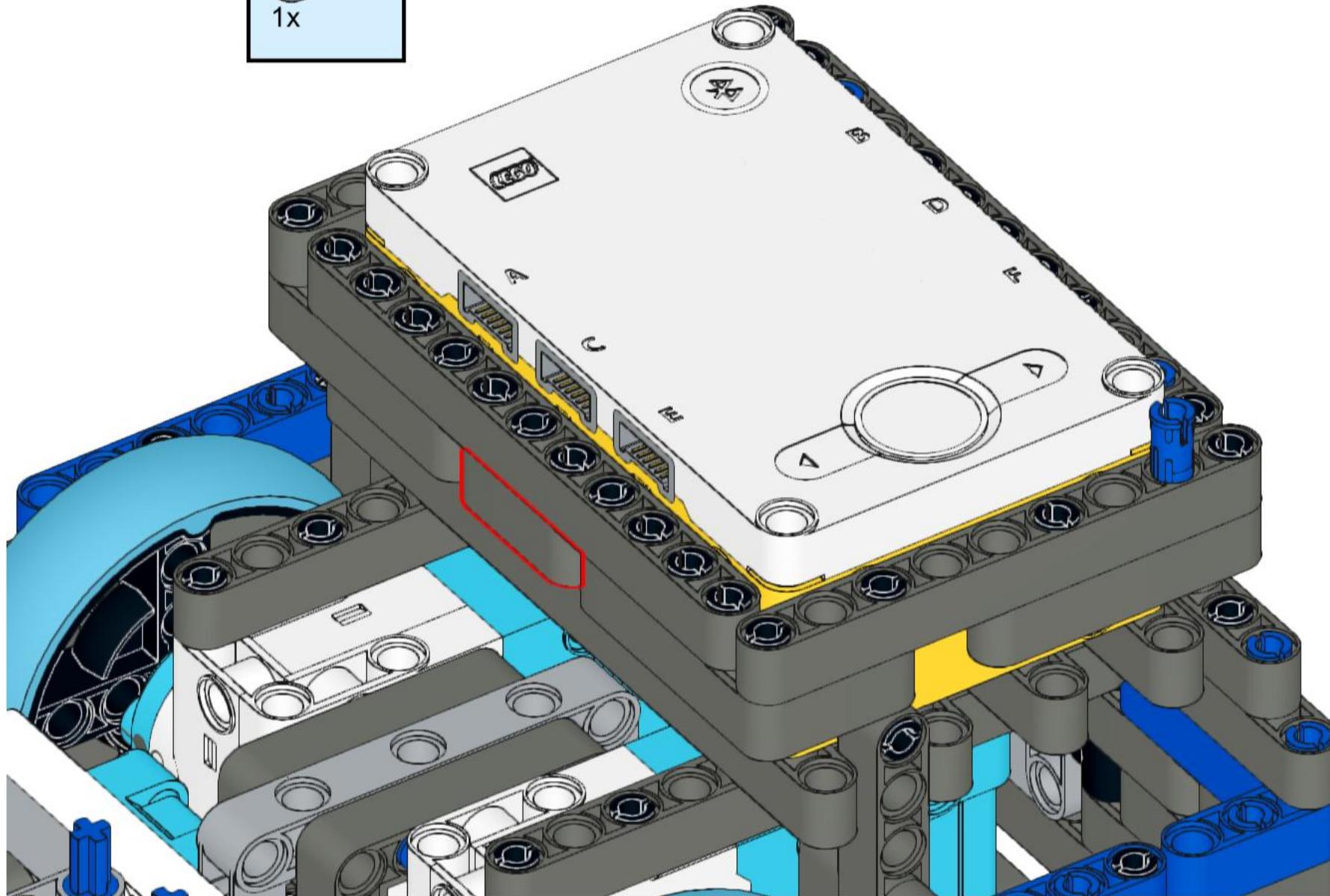
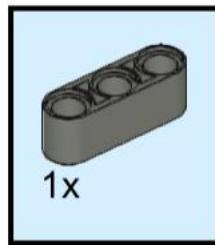
115



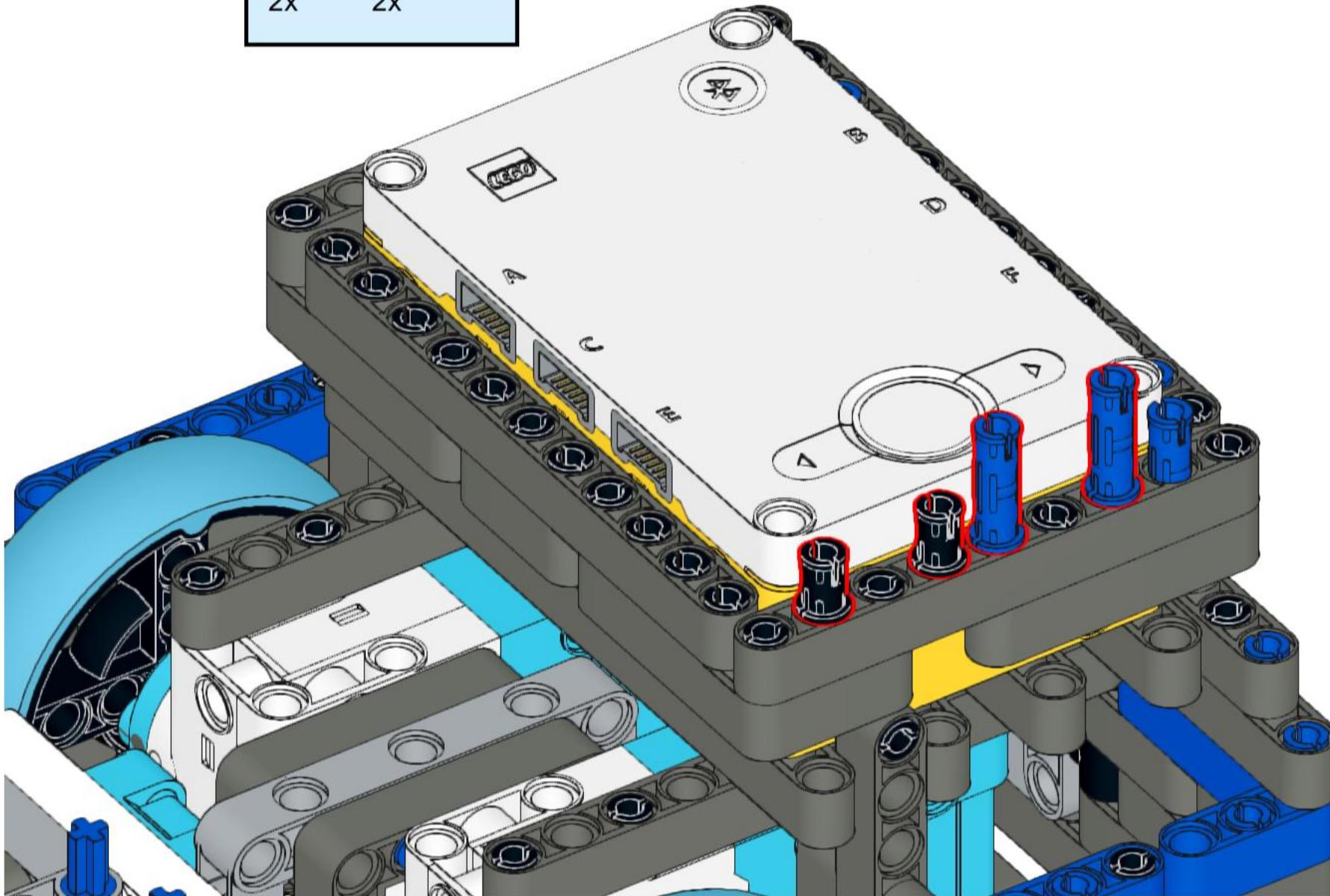
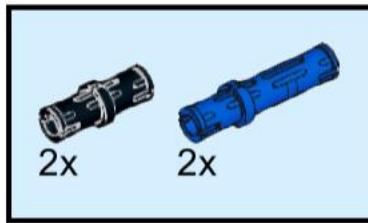
Again, you may need to unplug the wires temporarily to get this beam in place. Once you have it done, carefully get all of the wires tucked back under the brick. There should be no floppy wires sticking out anywhere.



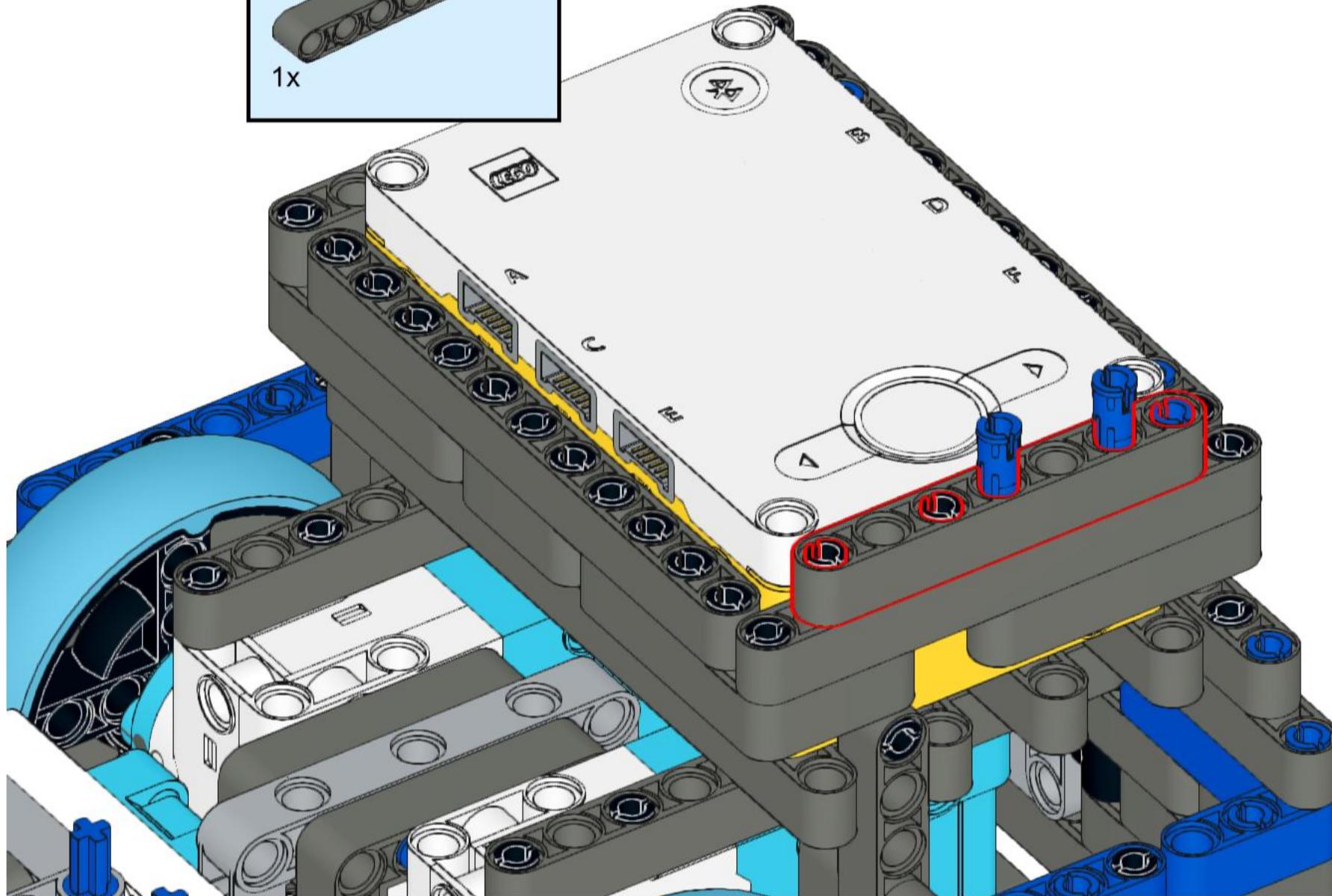
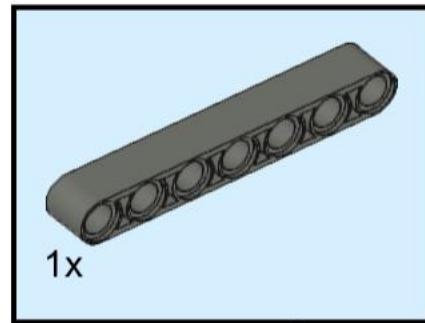
116



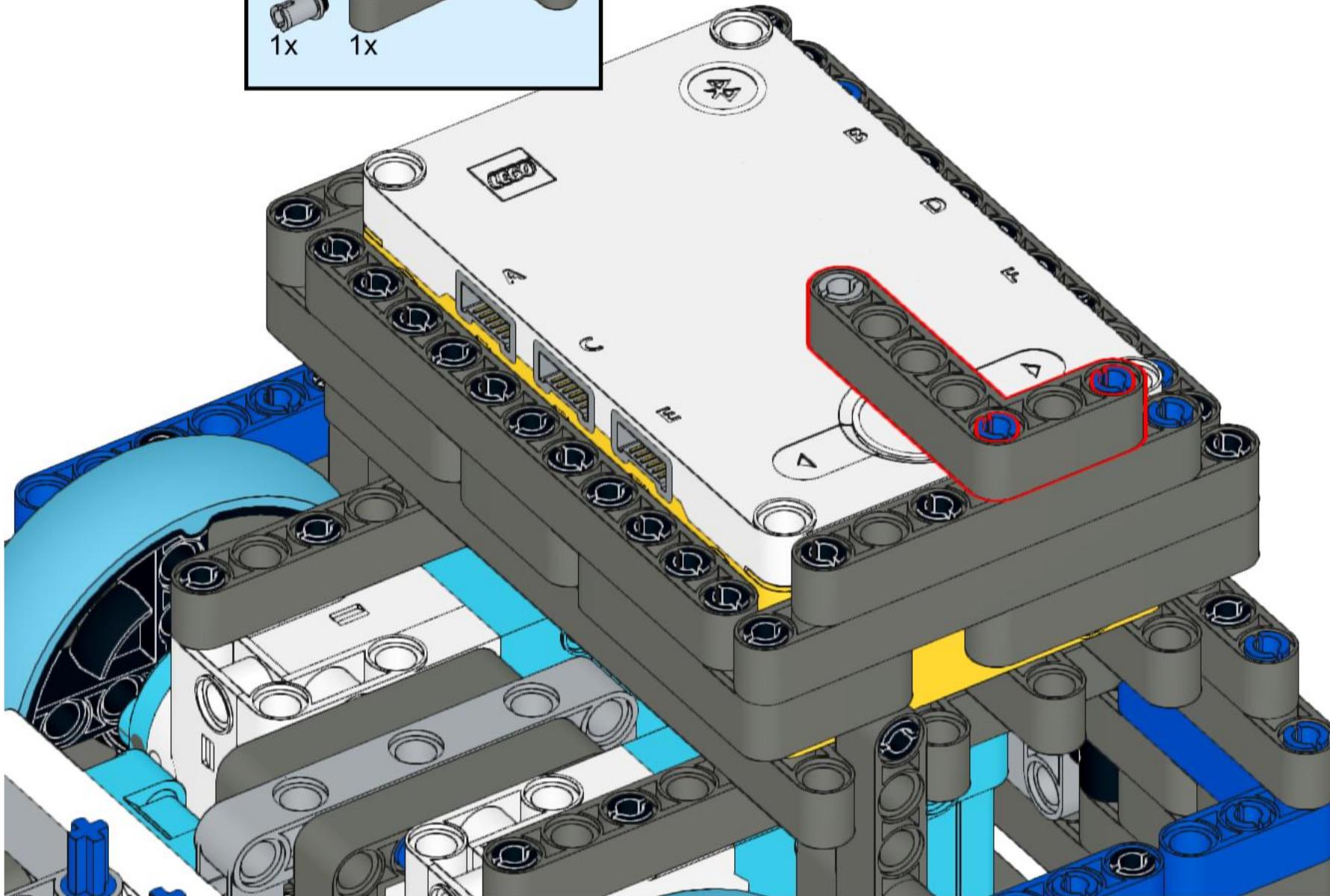
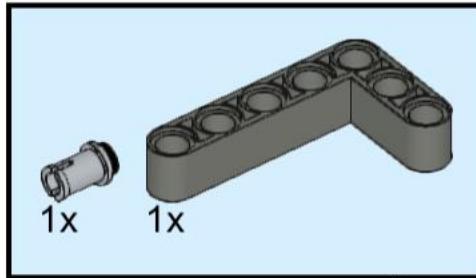
117



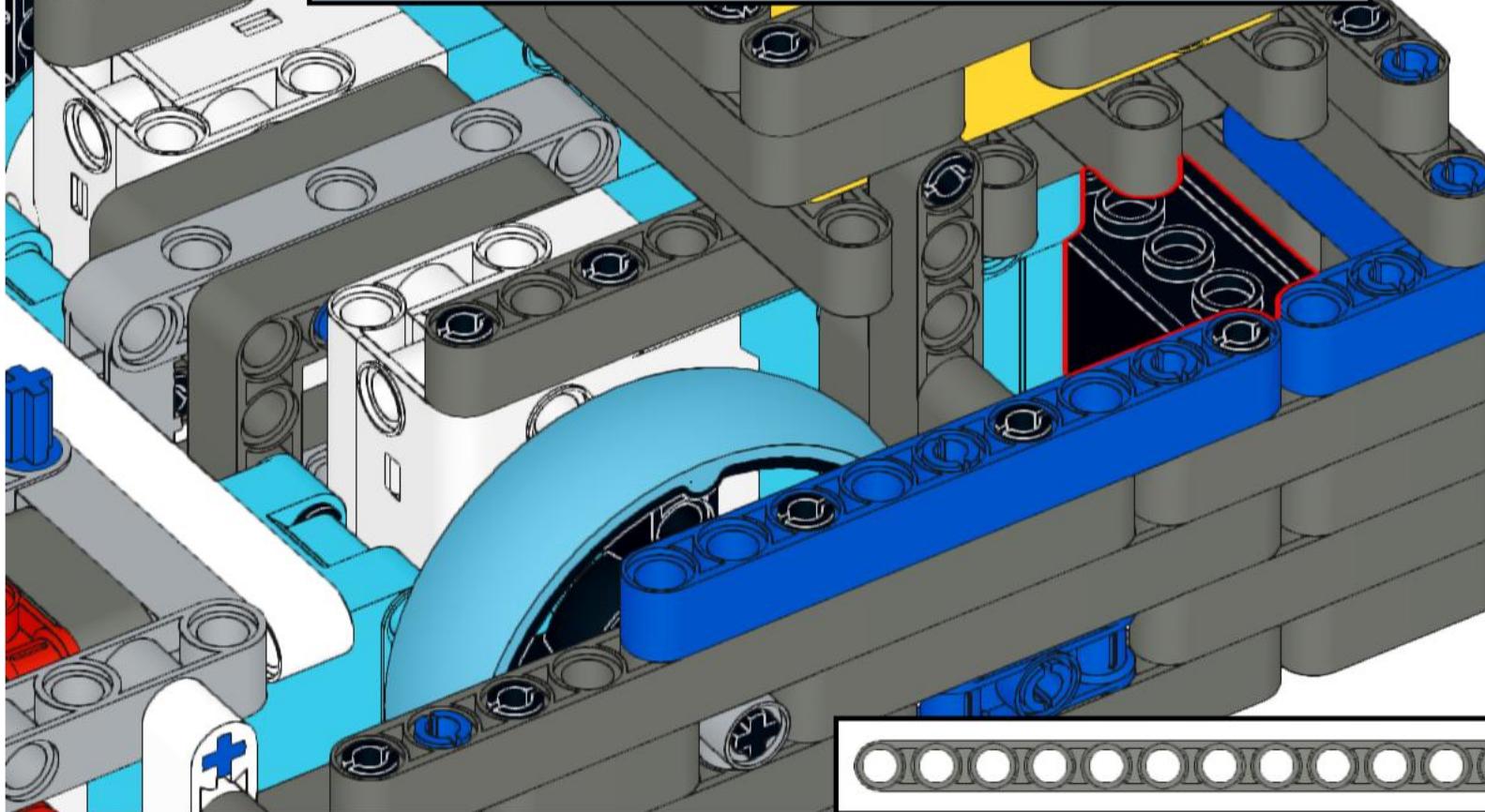
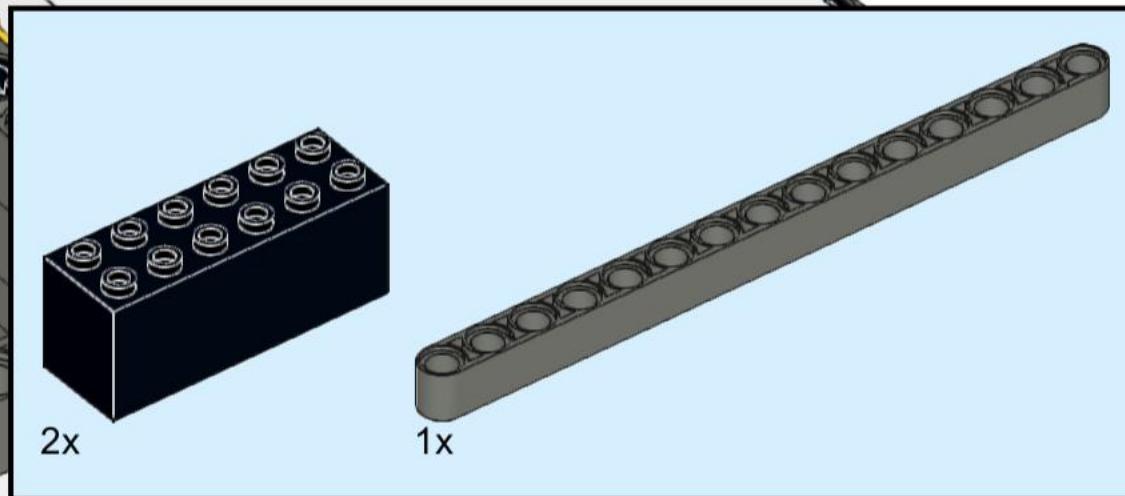
118



119



120



15 1:1



116x
2780
Black



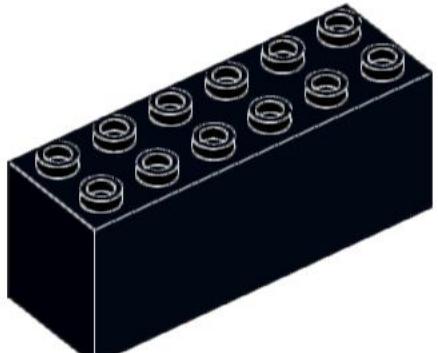
6x
15100
Black



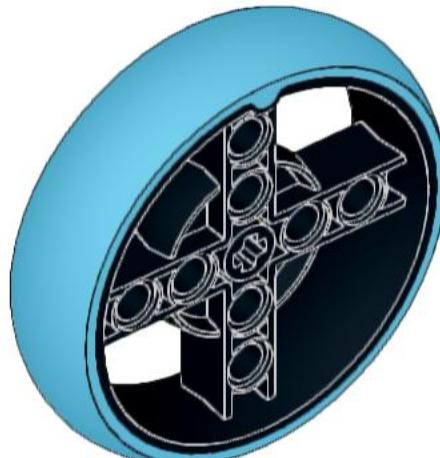
3x
3705
Black



1x
37308c01
Black



2x
73090b
Black



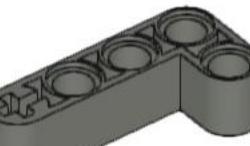
2x
39367pb01
Black



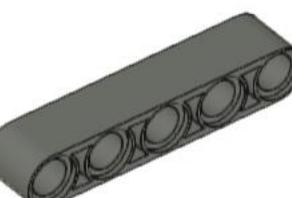
13x
32523
Dark Bluish Gray



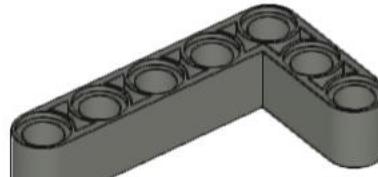
2x
42003
Dark Bluish Gray



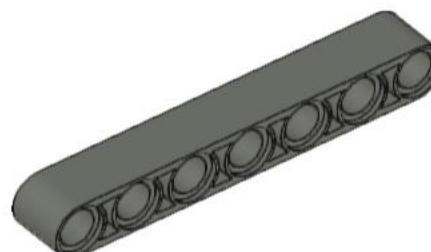
2x
32140
Dark Bluish Gray



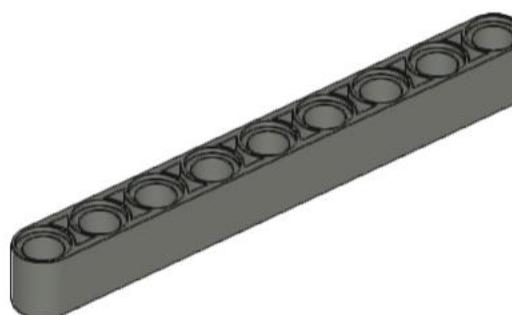
10x
32316
Dark Bluish Gray



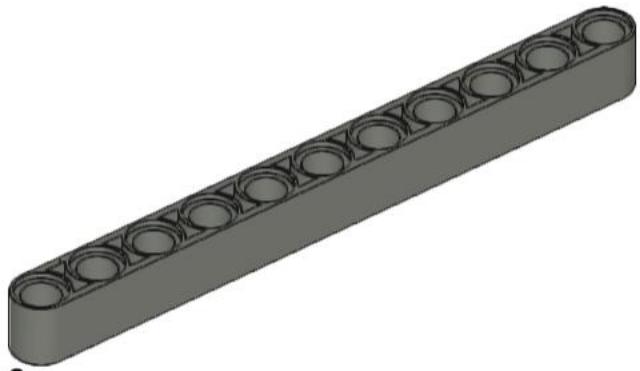
21x
32526
Dark Bluish Gray



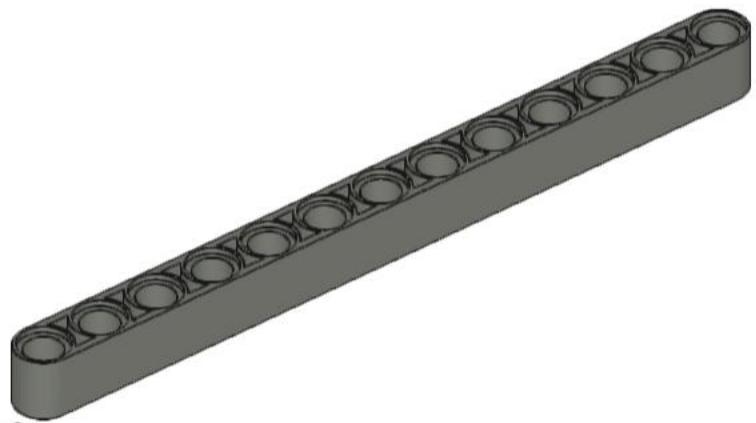
9x
32524
Dark Bluish Gray



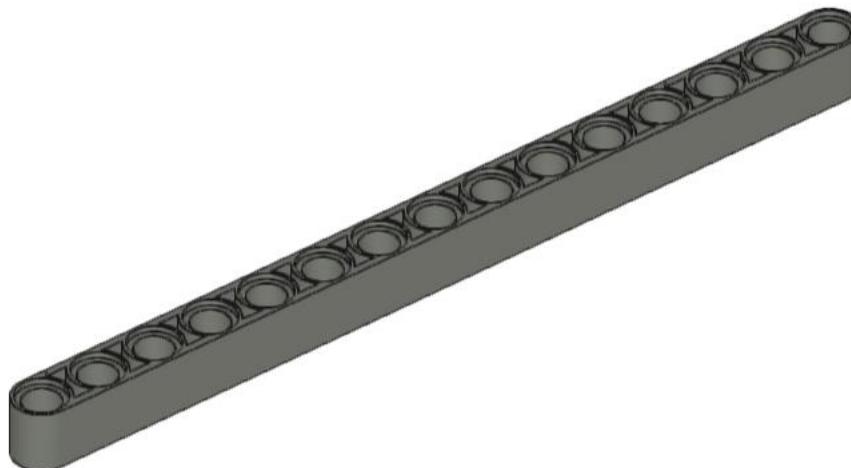
2x
40490
Dark Bluish Gray



8x
32525
Dark Bluish Gray



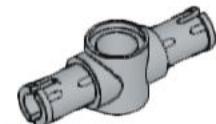
6x
41239
Dark Bluish Gray



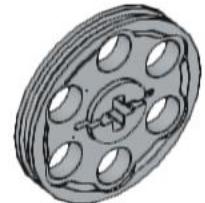
3x
32278
Dark Bluish Gray



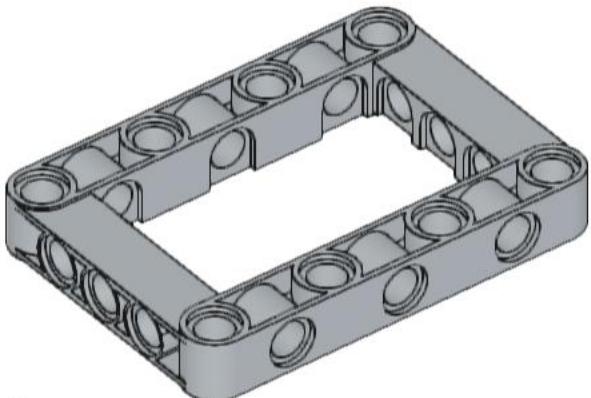
1x
4274
Light Bluish Gray



2x
87082
Light Bluish Gray



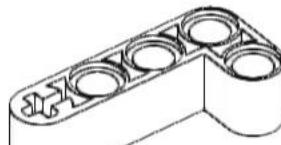
2x
4185
Light Bluish Gray



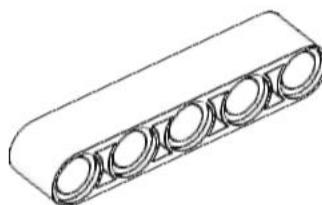
4x
64179
Light Bluish Gray



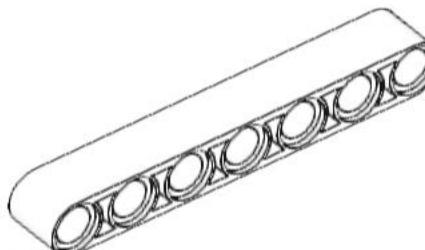
2x
43857
White



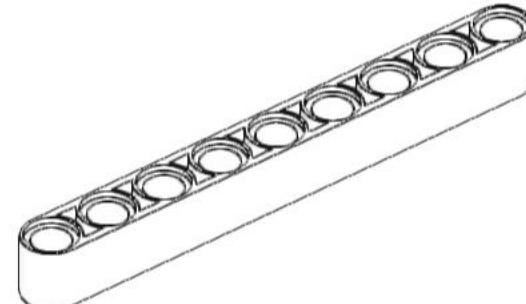
4x
32140
White



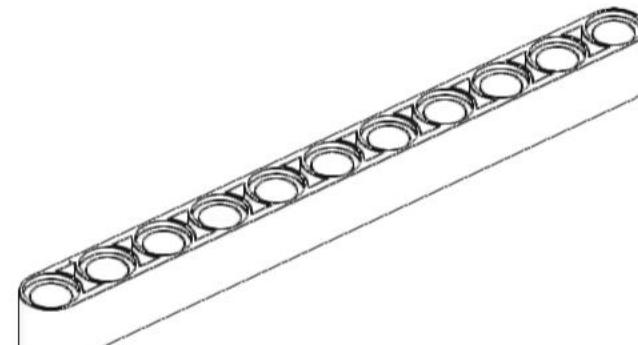
2x
32316
White



1x
32524
White



1x
40490
White



1x
32525
White



1x
37113
Red



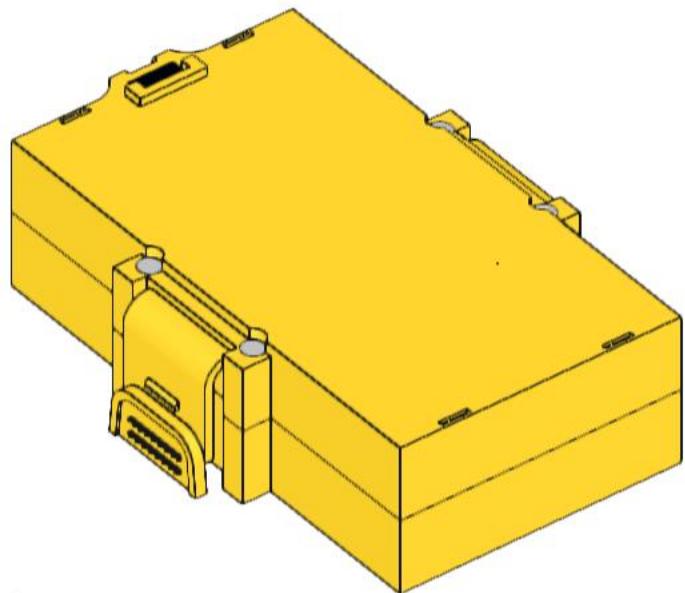
4x
32184
Red



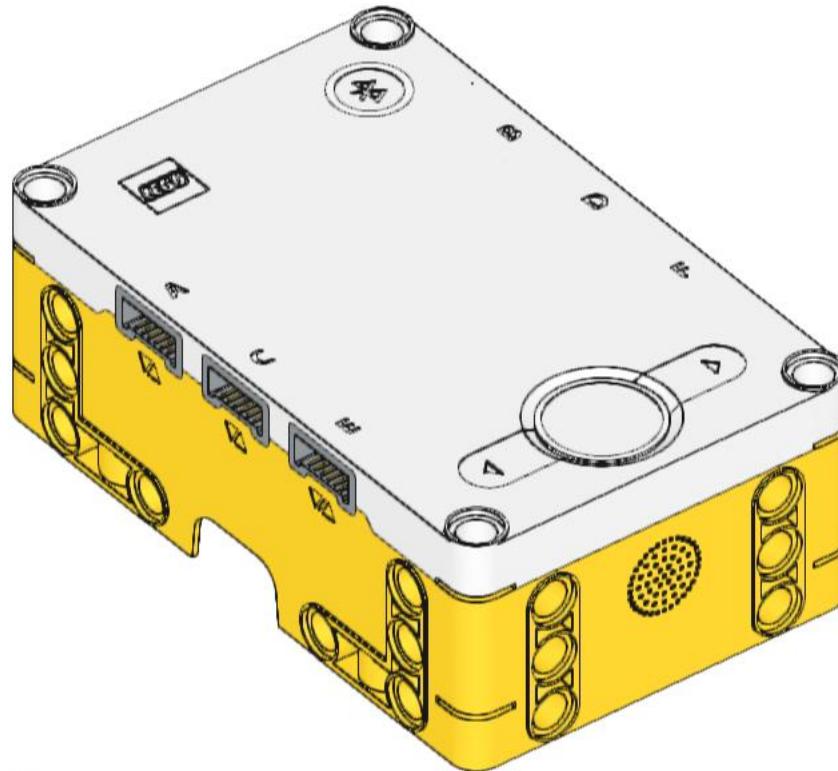
10x
11214
Red



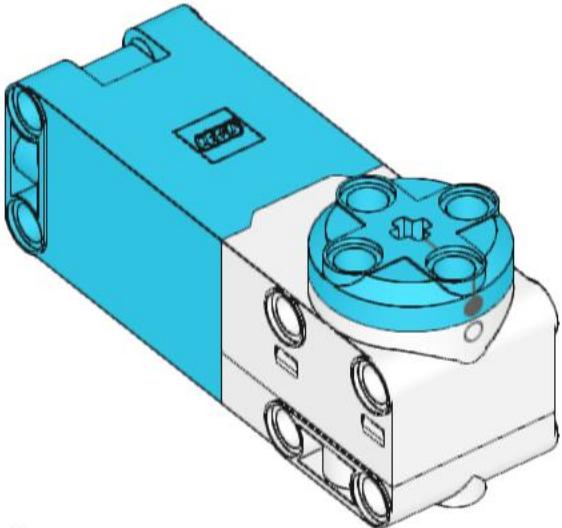
2x
4265c
Yellow



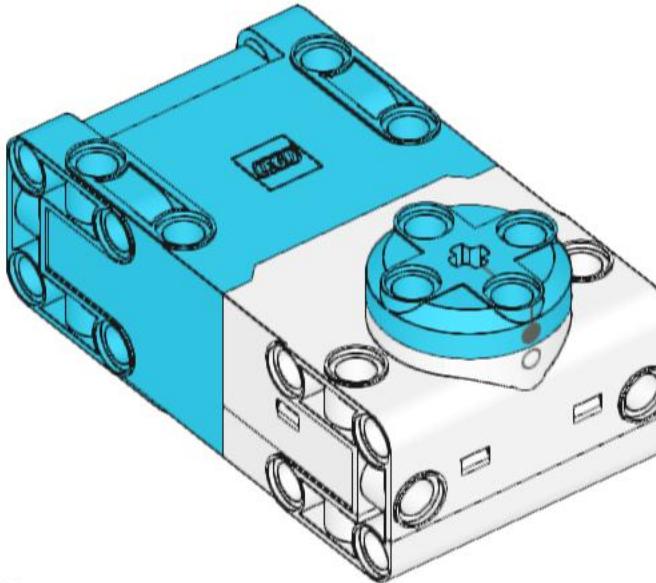
1x
55422c01
Yellow



1x
bb1142c01
Yellow



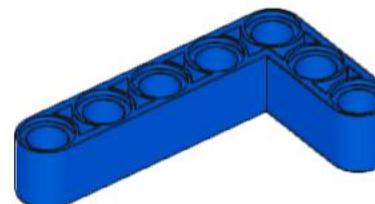
2x
54696c01
Medium Azure



2x
54675c01
Medium Azure



2x
32184
Blue



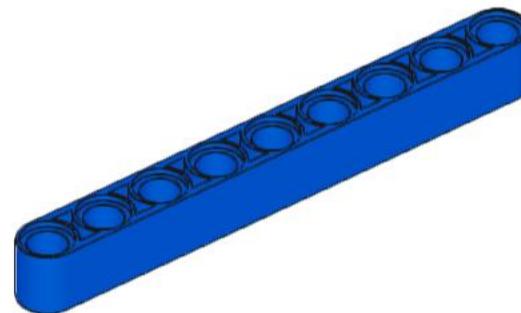
2x
32526
Blue



14x
43093
Blue



86x
6558
Blue



2x
40490
Blue