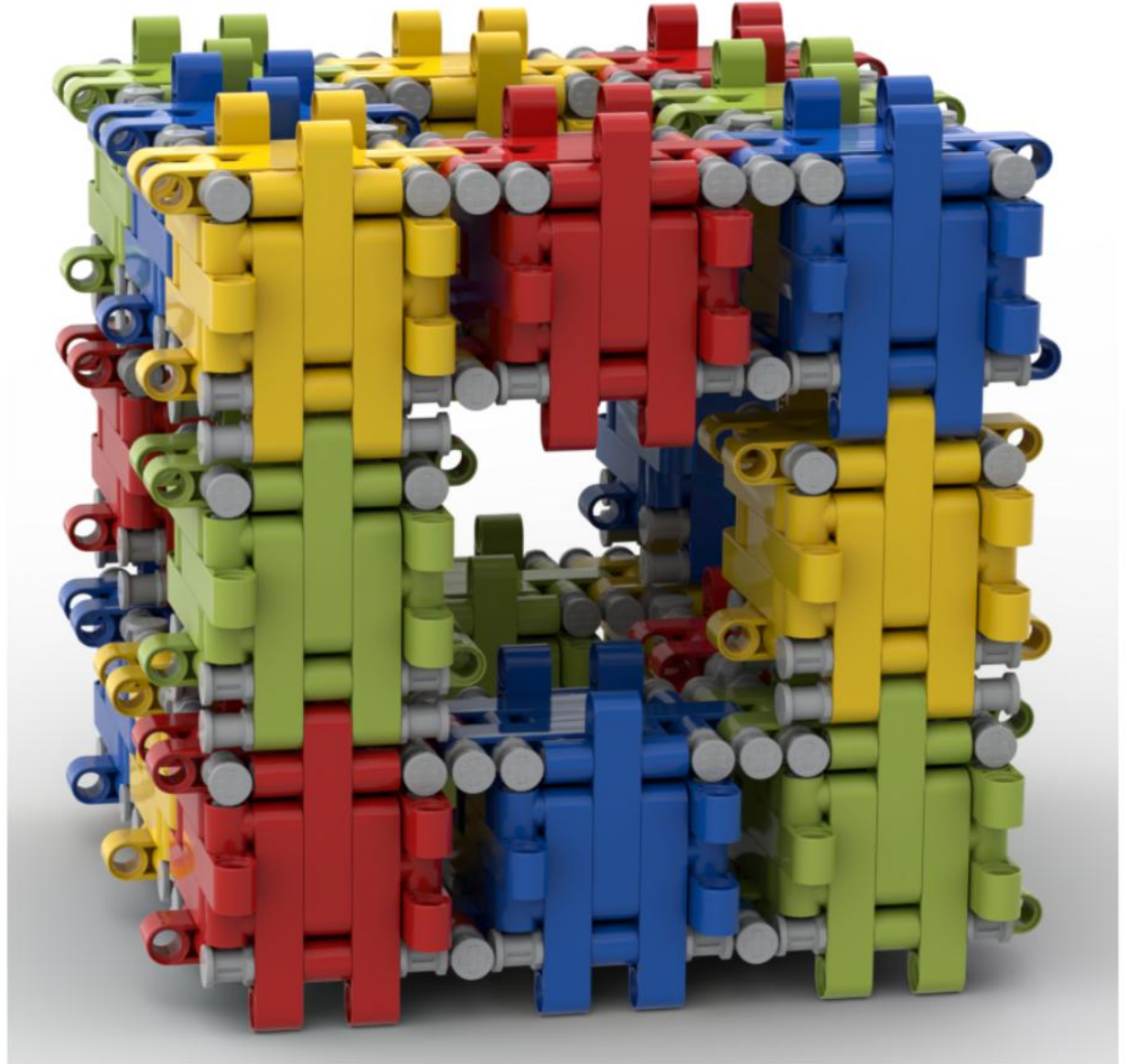


Level 1 Menger sponge

(base cube edge of 6L)

Frank van der Most

1 October 2023



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then you wasted your money,
because it is available for free.**

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BUILDING NOTES

A Menger sponge is a fractal, i.e. it can repeat itself infinitely. That is also possible with this level 1 Menger sponge. 20 of these can be assembled together using axles and bushes to create a level 2 Menger sponge. In turn 20 of these level 2 Menger sponges can be assembled into a level 3 Menger sponge. And so on.

To speed up the building process, it makes sense not to build each base cube in order of their appearance in this manual. Better work batch-wise: first build all the cubes.

In turn each base cube also has repetition within it. The walls are all the same. So, better first build all the walls for the entire Menger Sponge before assembling them into cubes.

To facilitate this batch-wise building, the manual indicates how many of each sub-model are needed for the entire model. In the example to the right (from step 5) it is indicated that the walls needs to be made 30 times for all yellow base cubes.

MORE INFORMATION

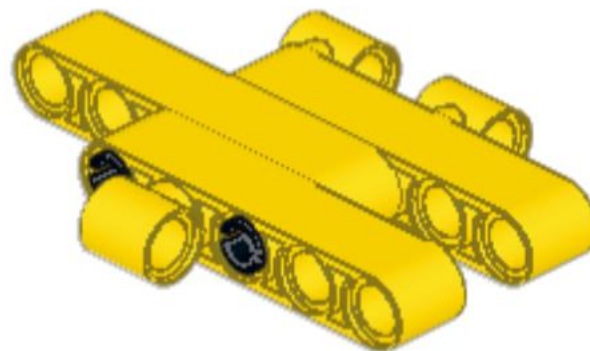
For more information about this model and others see <https://frankvandermost.com/lego/level-1-menger-sponge-6l/>

Please leave any questions, suggestions, criticism or praise, in the comments at the bottom of that page, or write me at frank_drv@icloud.com

This model and others are also available at the Rebrickable website at

https://rebrickable.com/users/Frank_van_der_Most/

This manual was made with the Studio design software, available via <https://www.bricklink.com/>





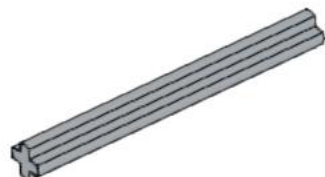
360x
2780
Black



256x
3713
Light Bluish Gray



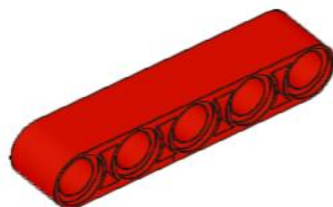
160x
4519
Light Bluish Gray



128x
32073
Light Bluish Gray



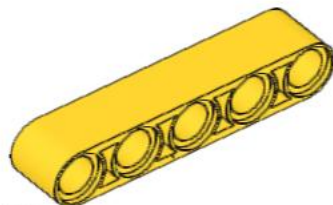
90x
15100
Red



90x
32316
Red



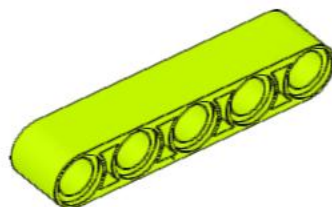
90x
15100
Yellow



90x
32316
Yellow



90x
15100
Lime



90x
32316
Lime

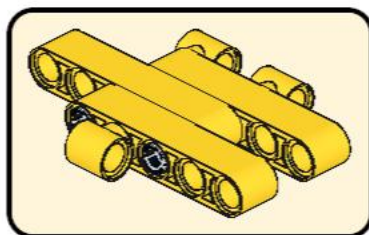


90x
15100
Blue

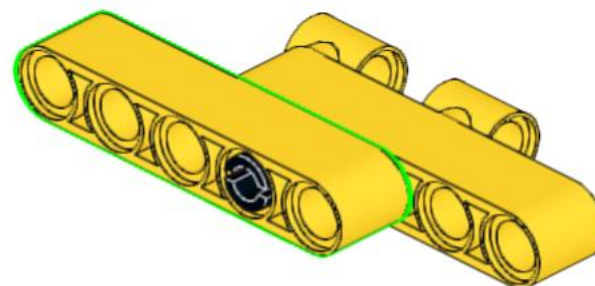
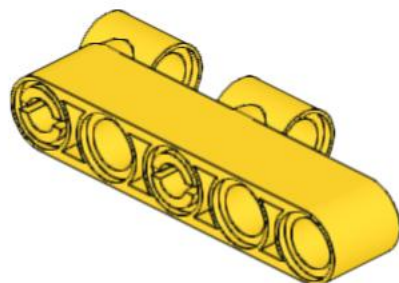
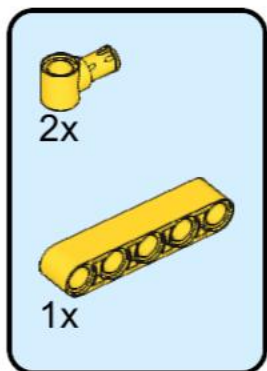
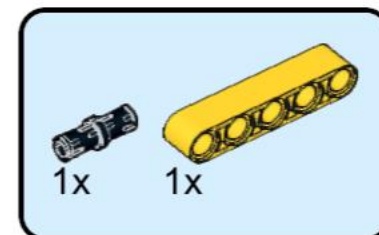


90x
32316
Blue

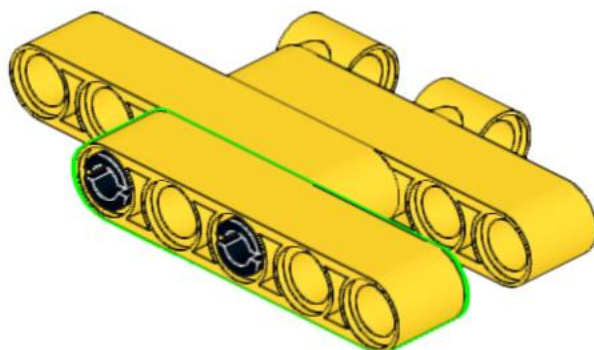
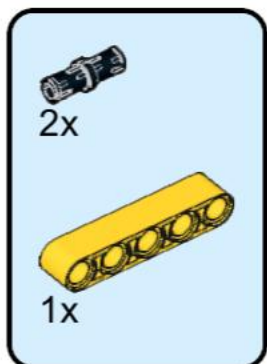
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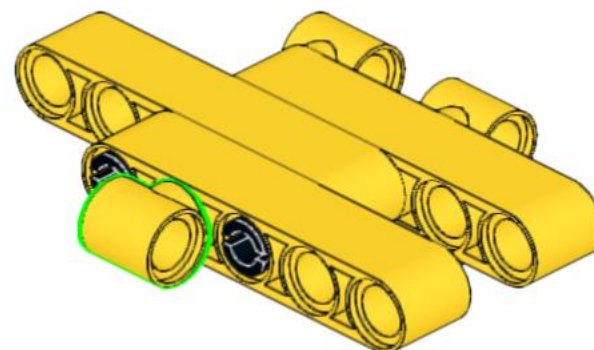
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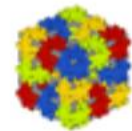
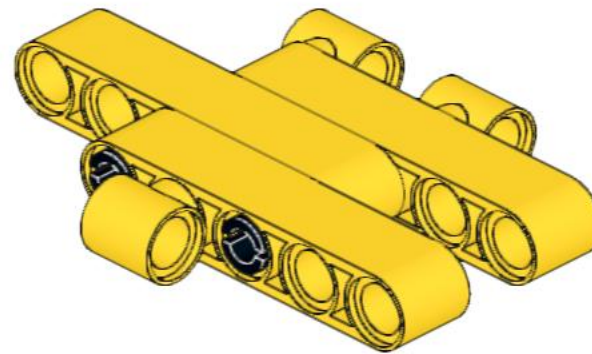
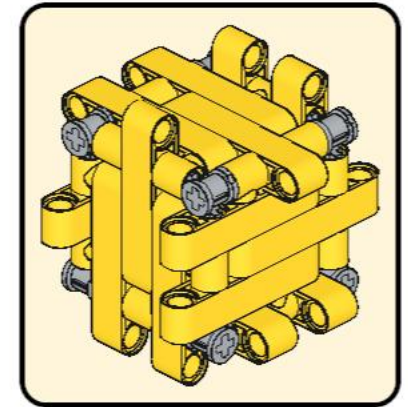
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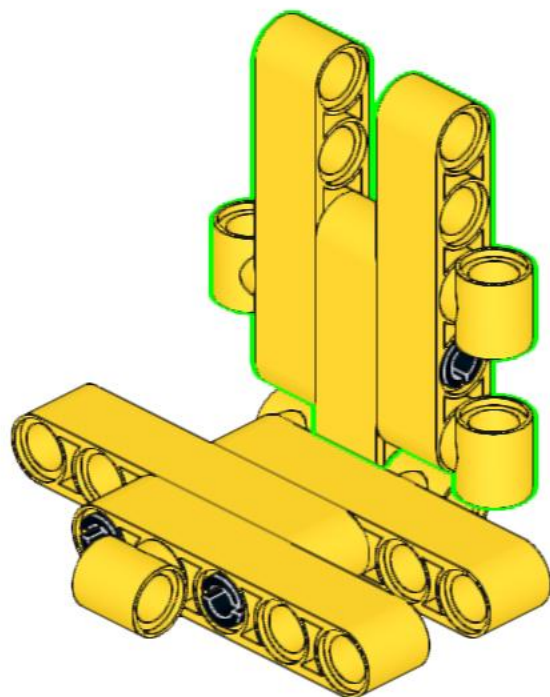
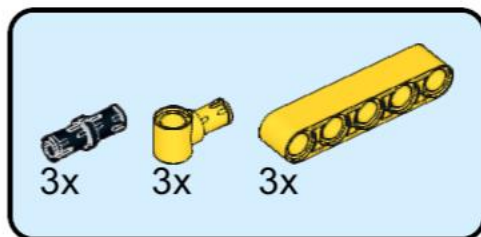


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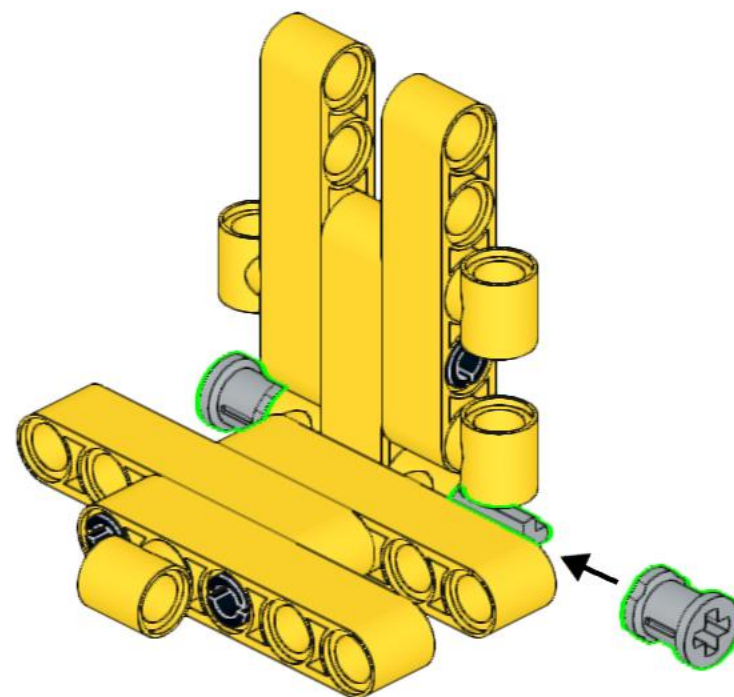
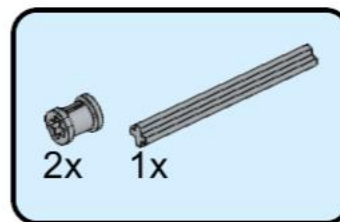


30x

6



7



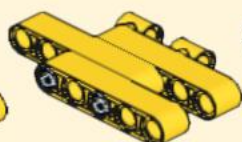
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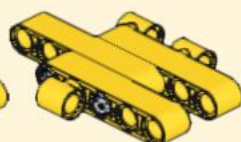
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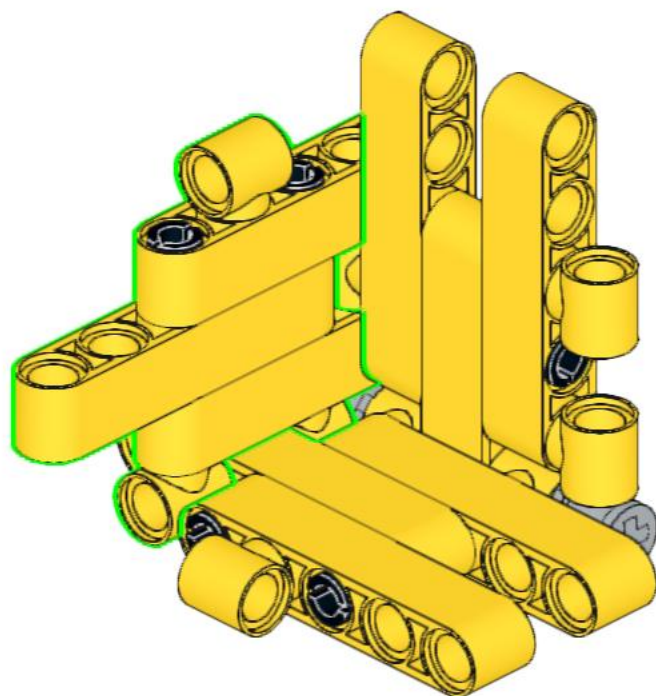
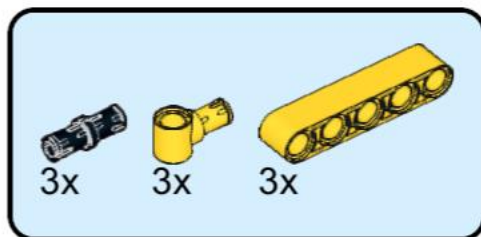
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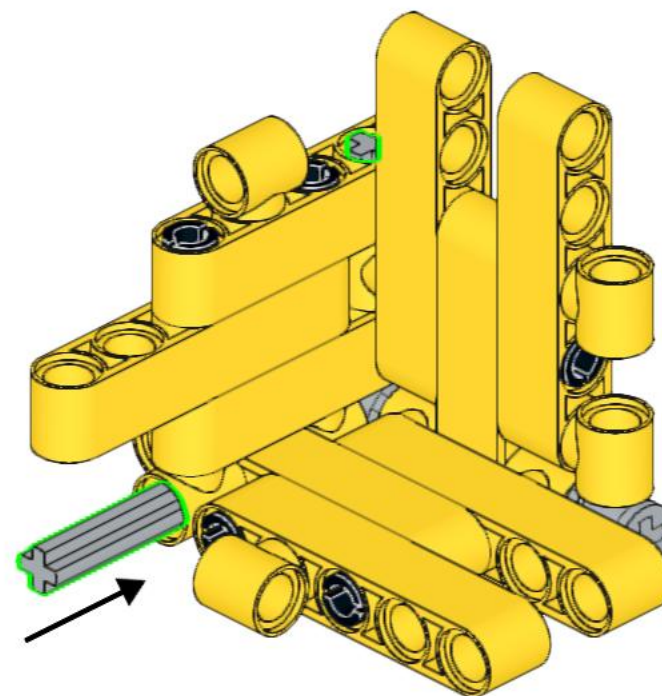
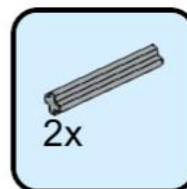
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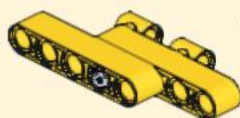
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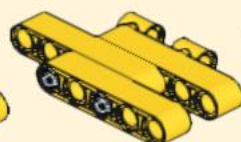
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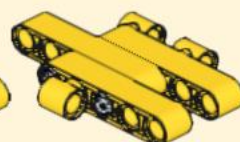
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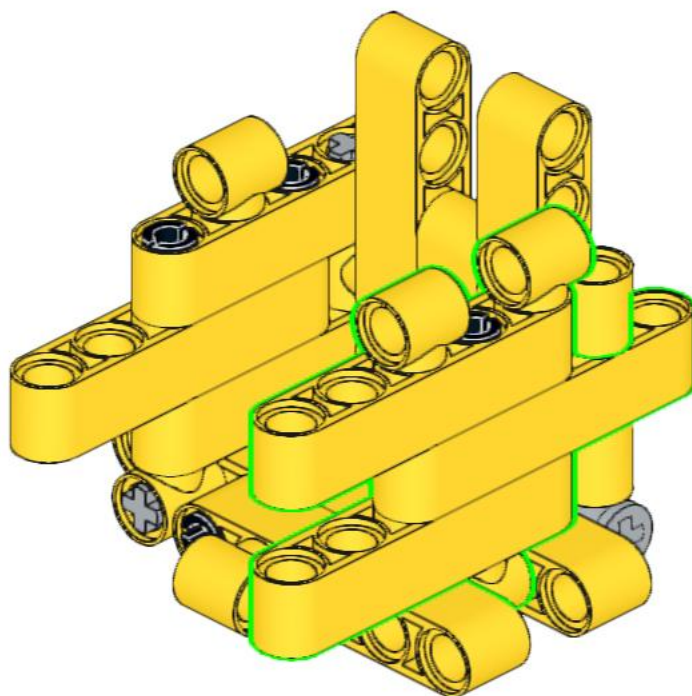
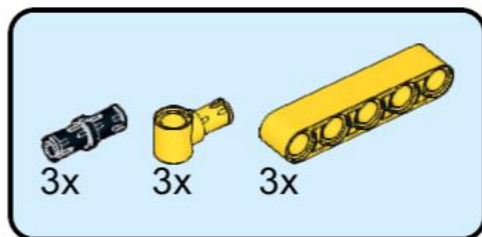
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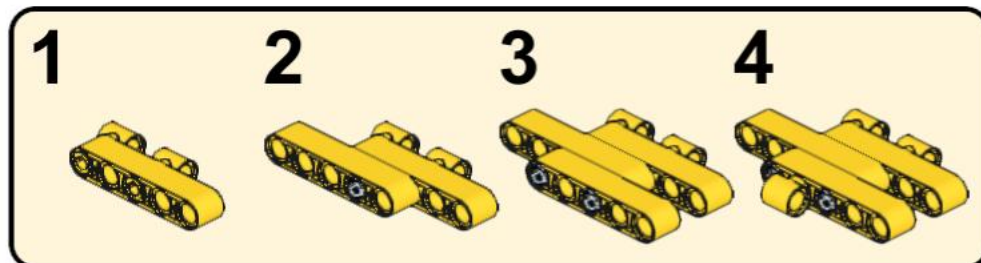
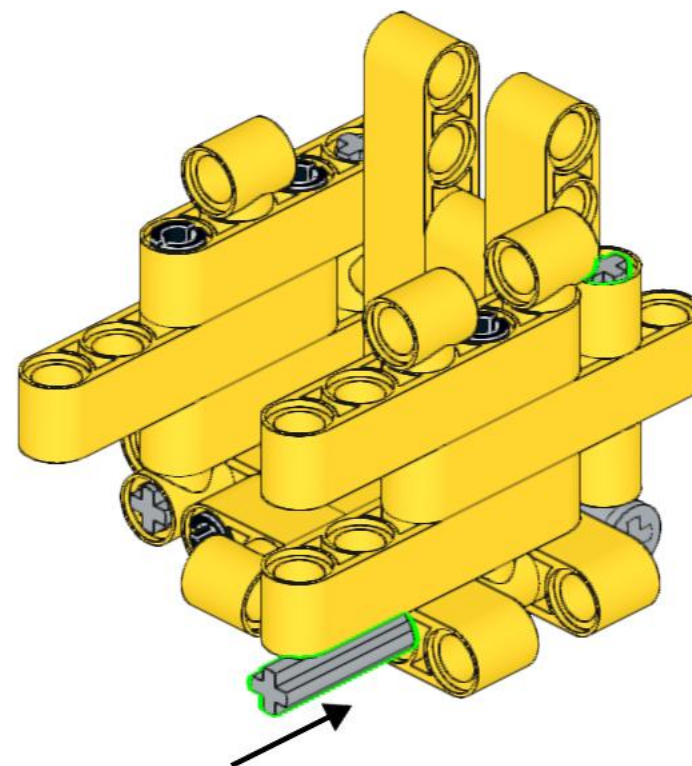
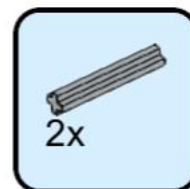
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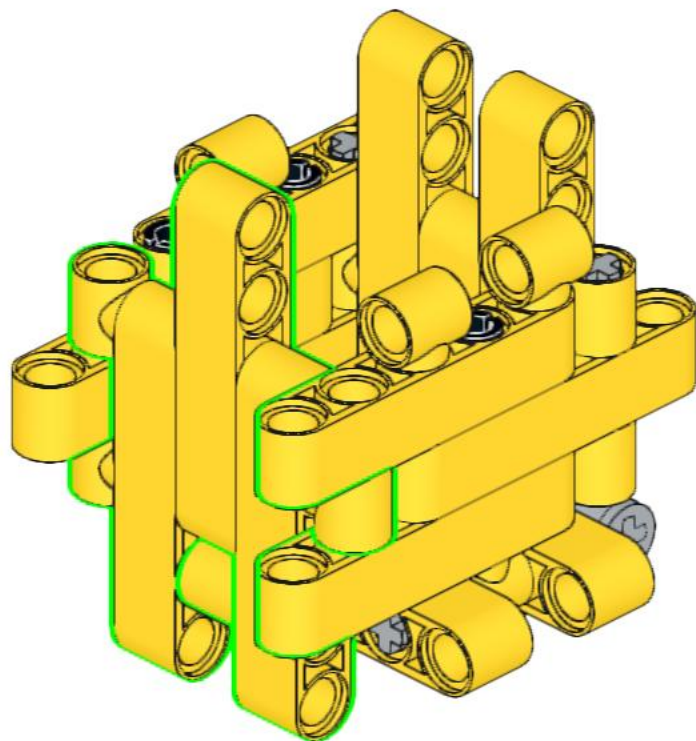
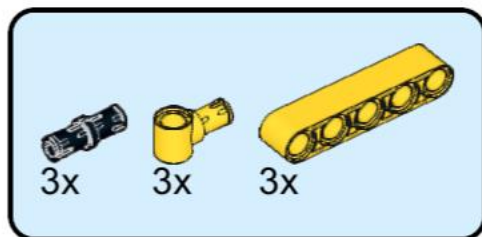
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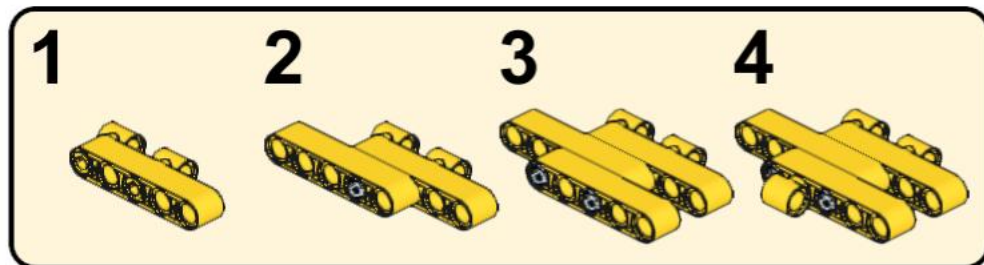
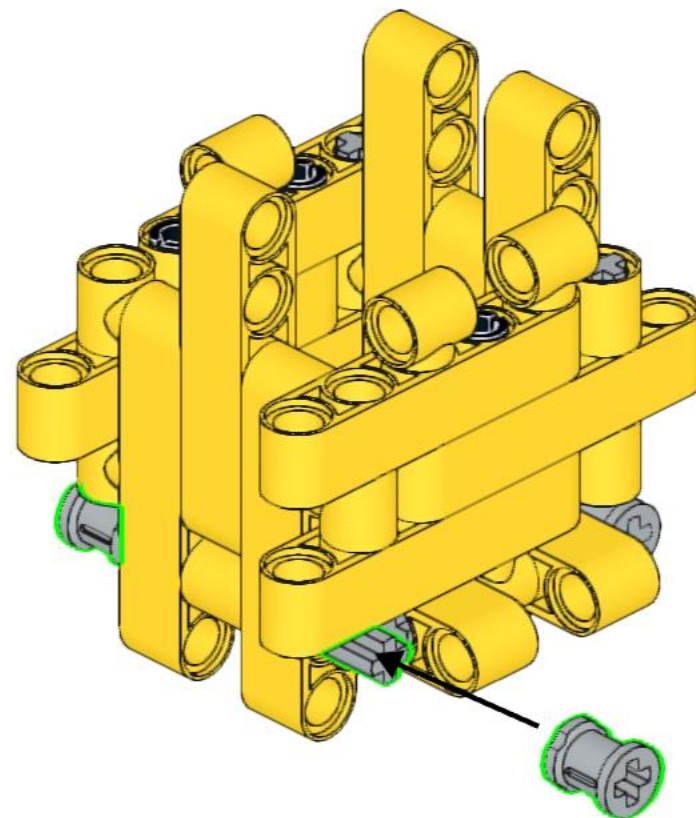
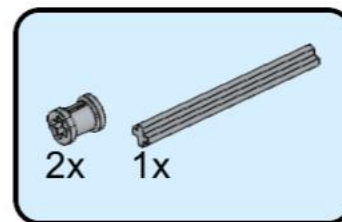
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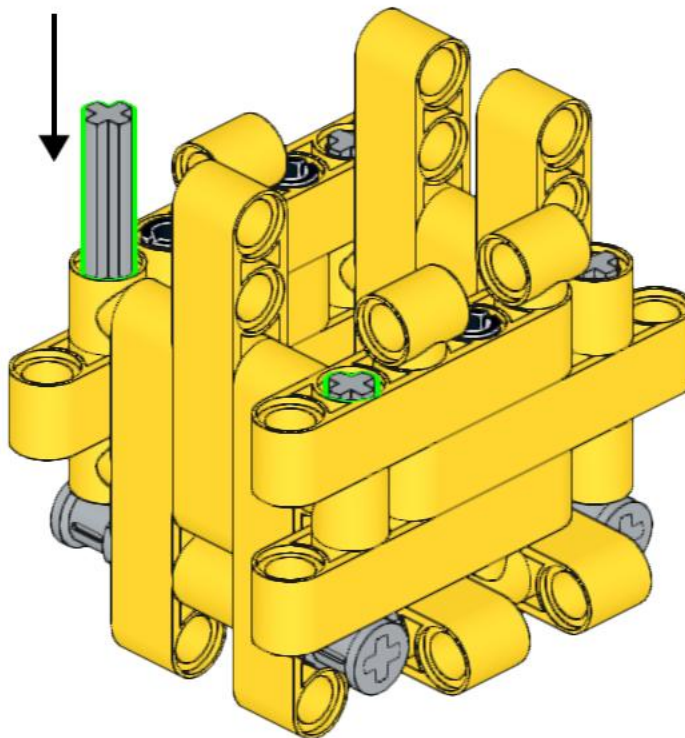
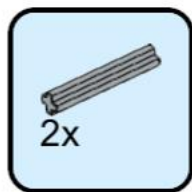
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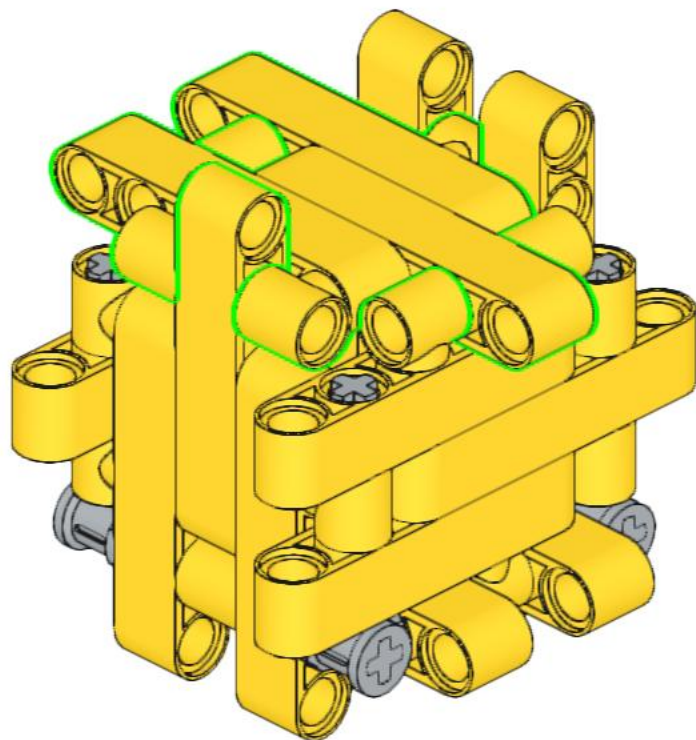
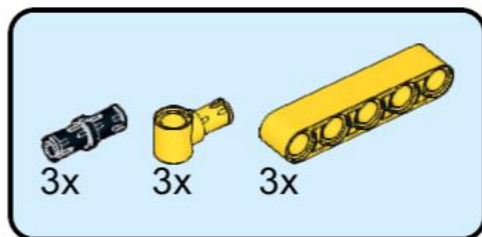
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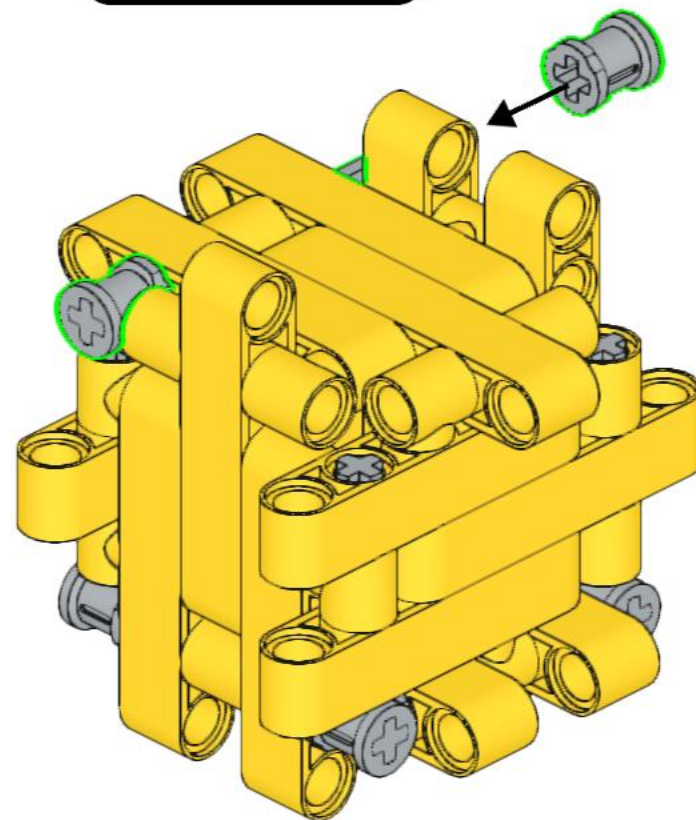
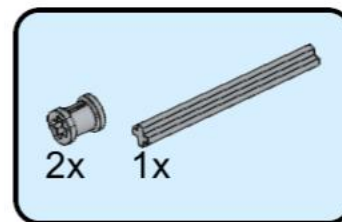
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15



16



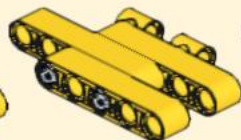
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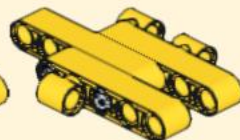
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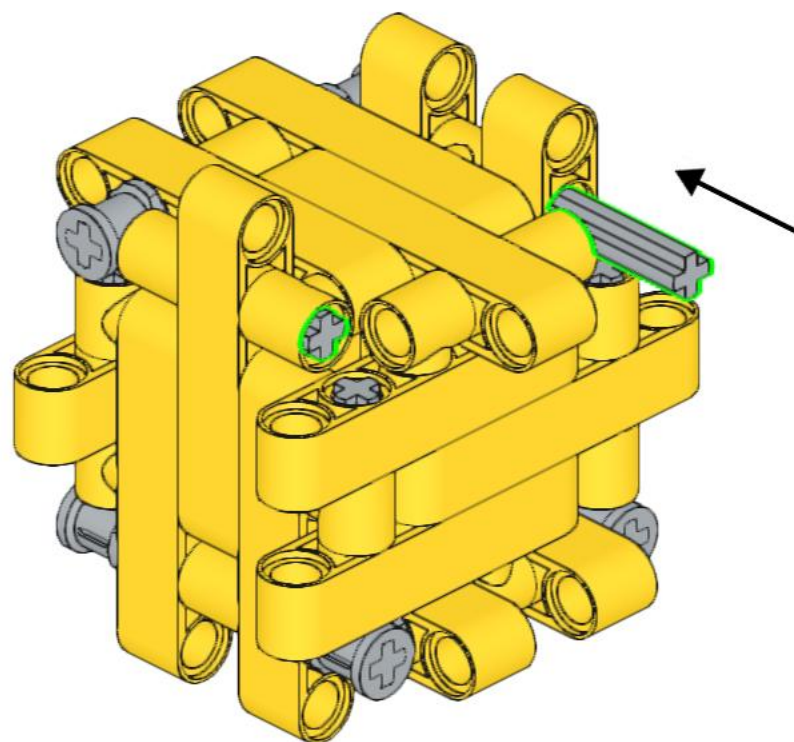
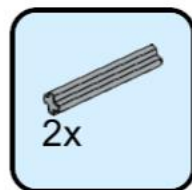
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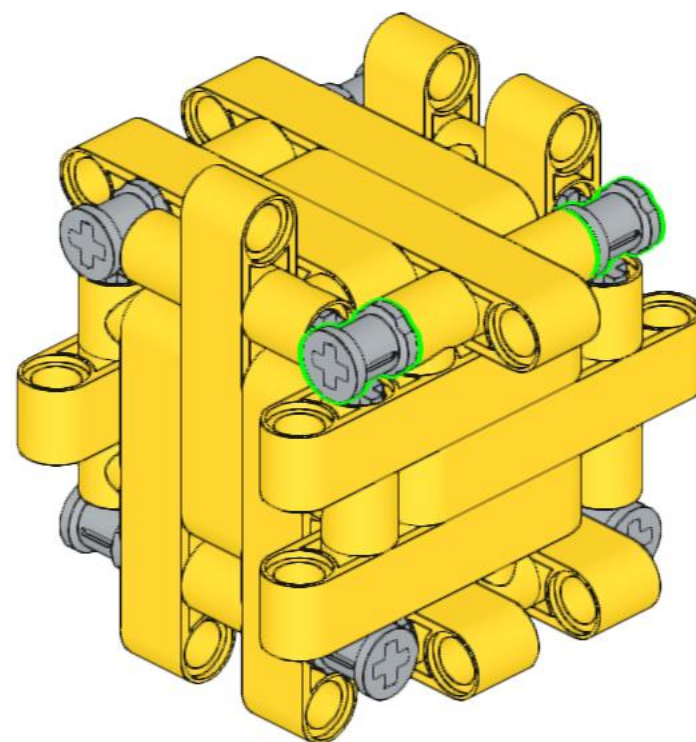
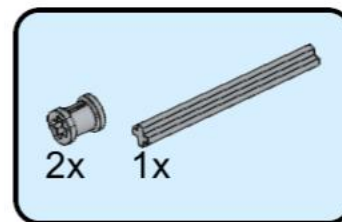
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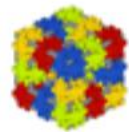
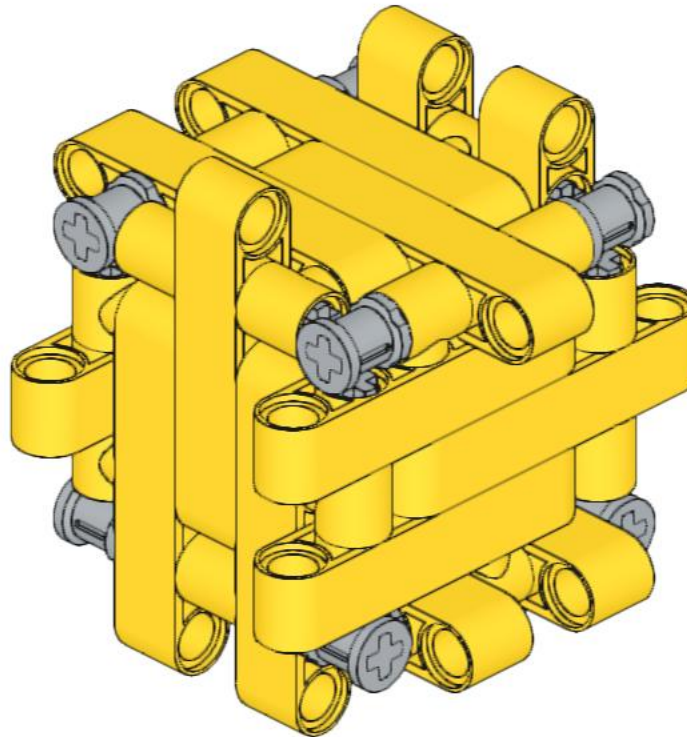
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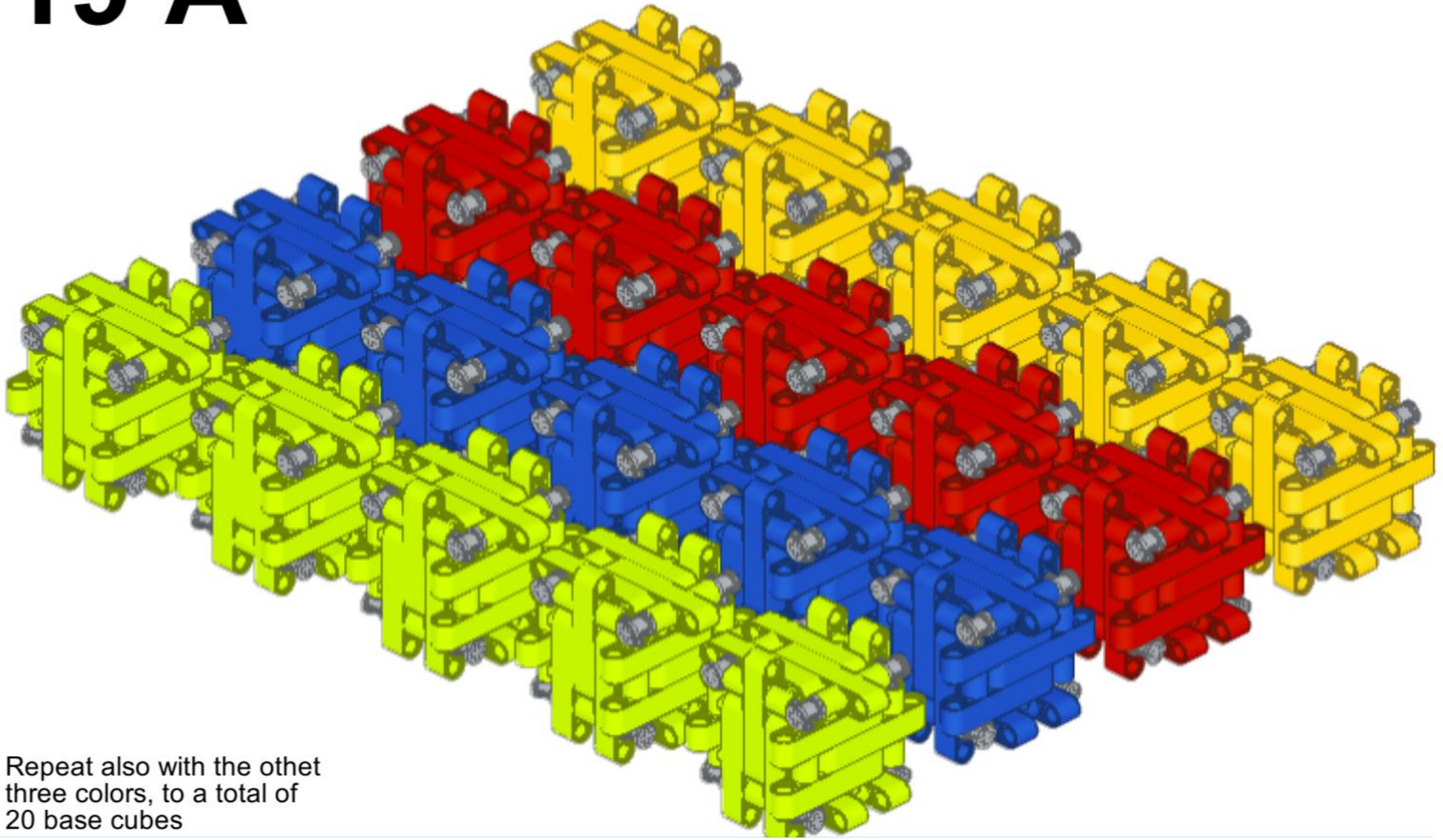


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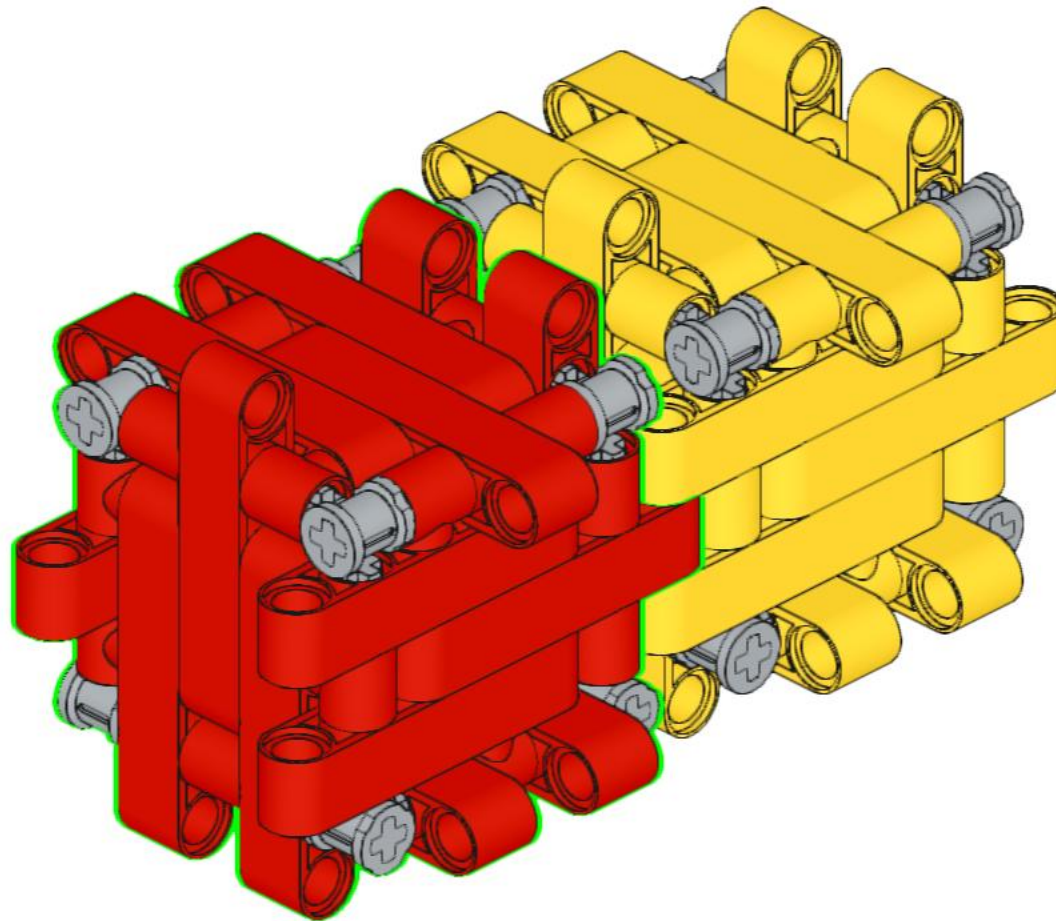
5x

19 A

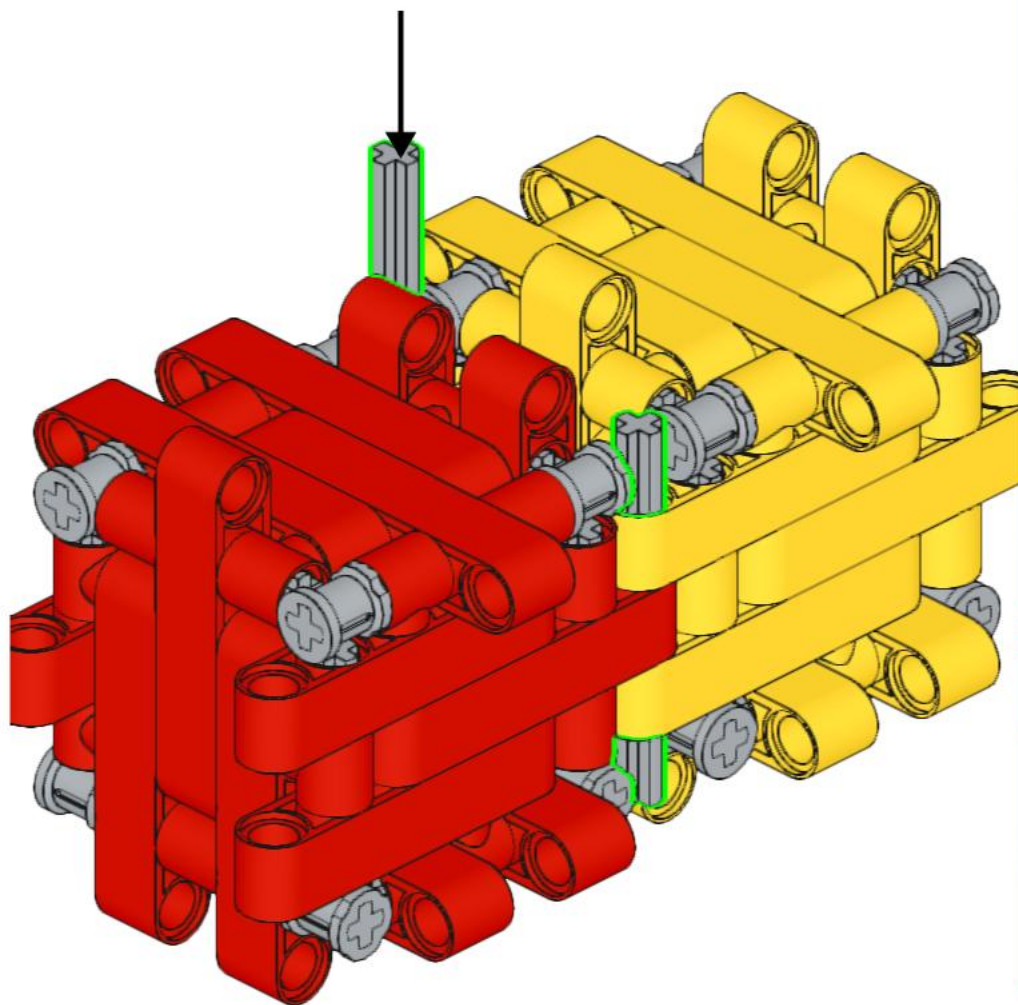
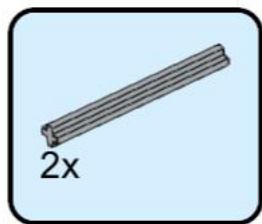


Repeat also with the other
three colors, to a total of
20 base cubes

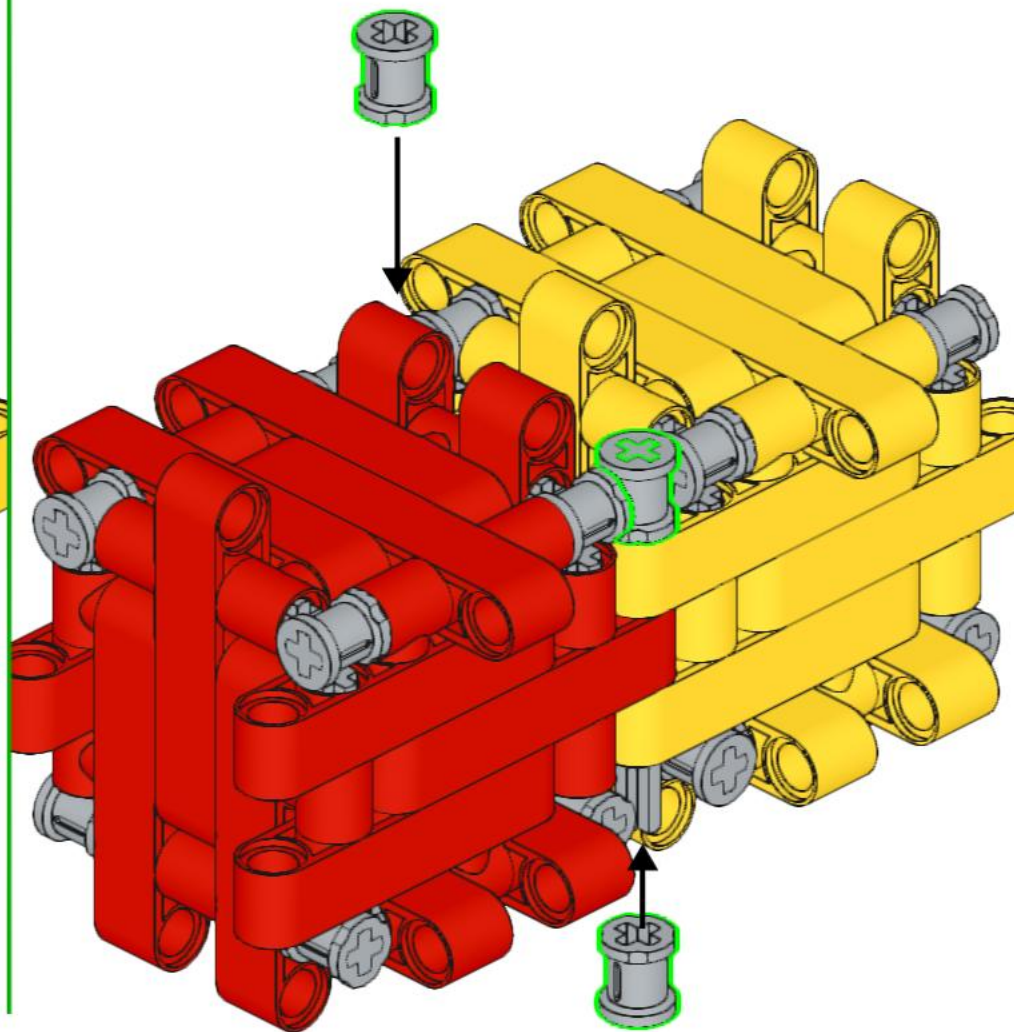
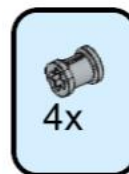
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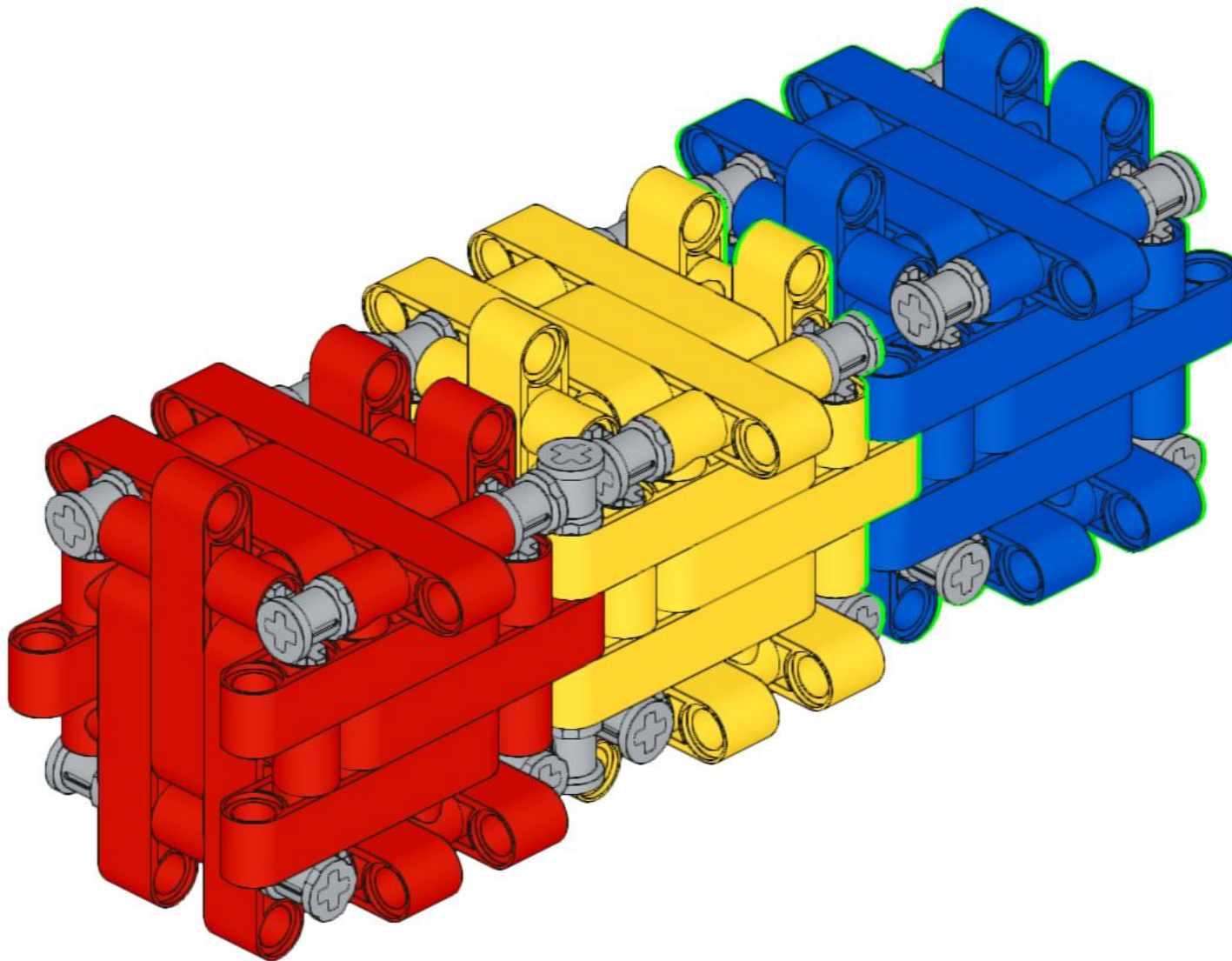
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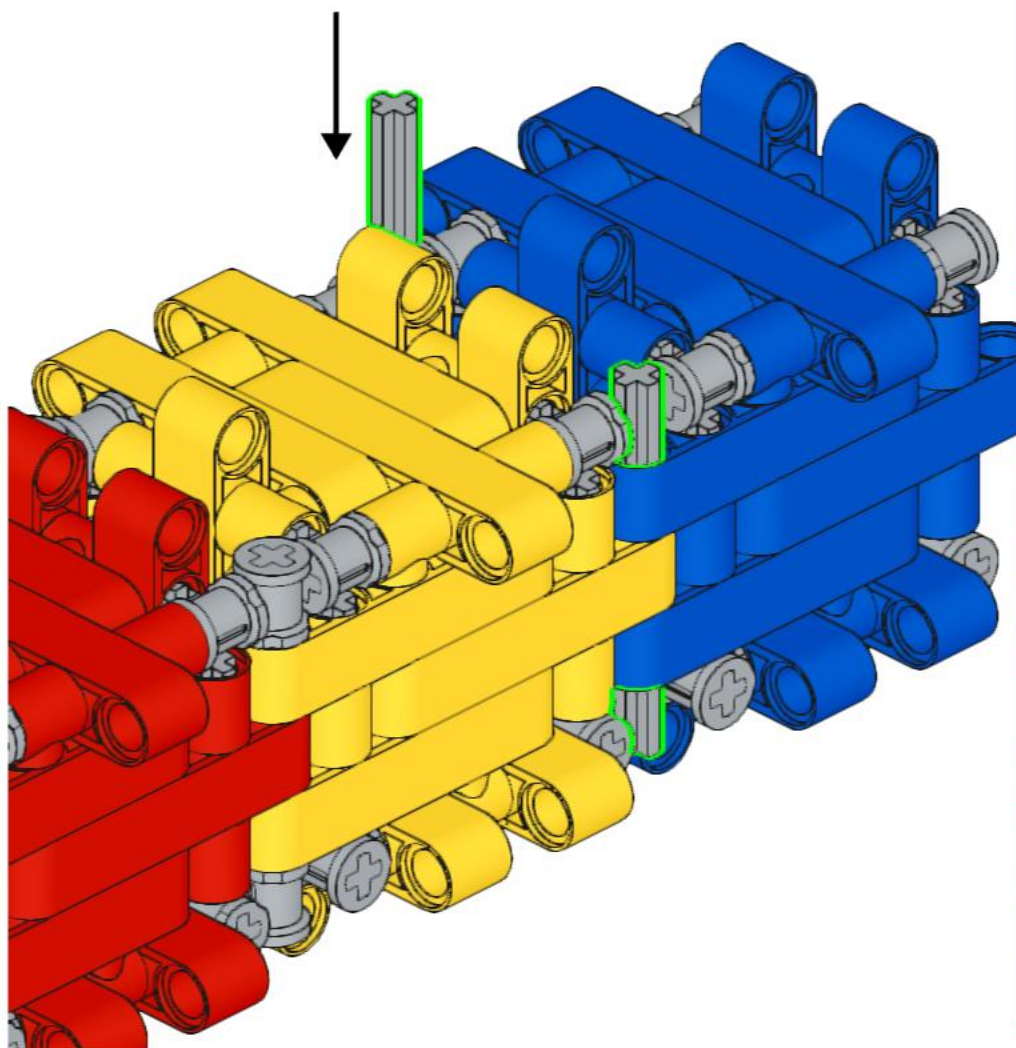
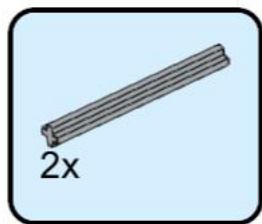
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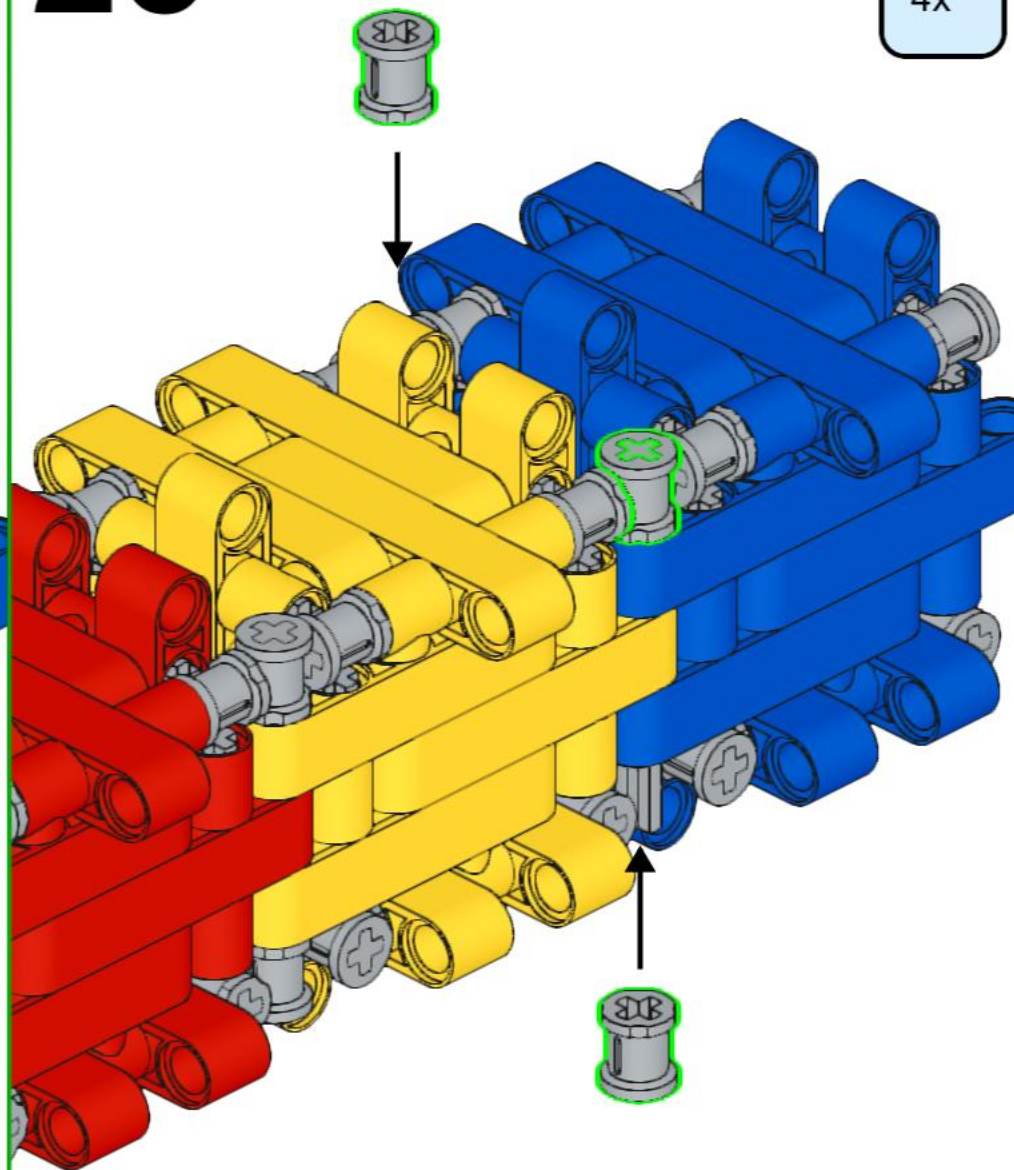
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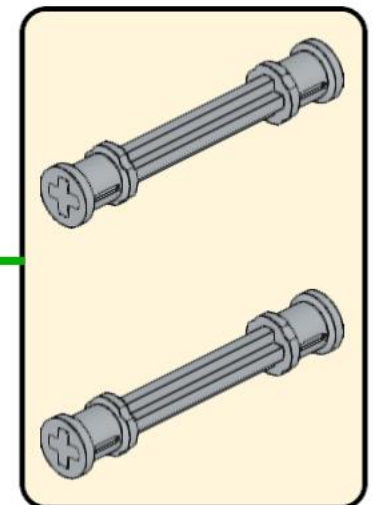
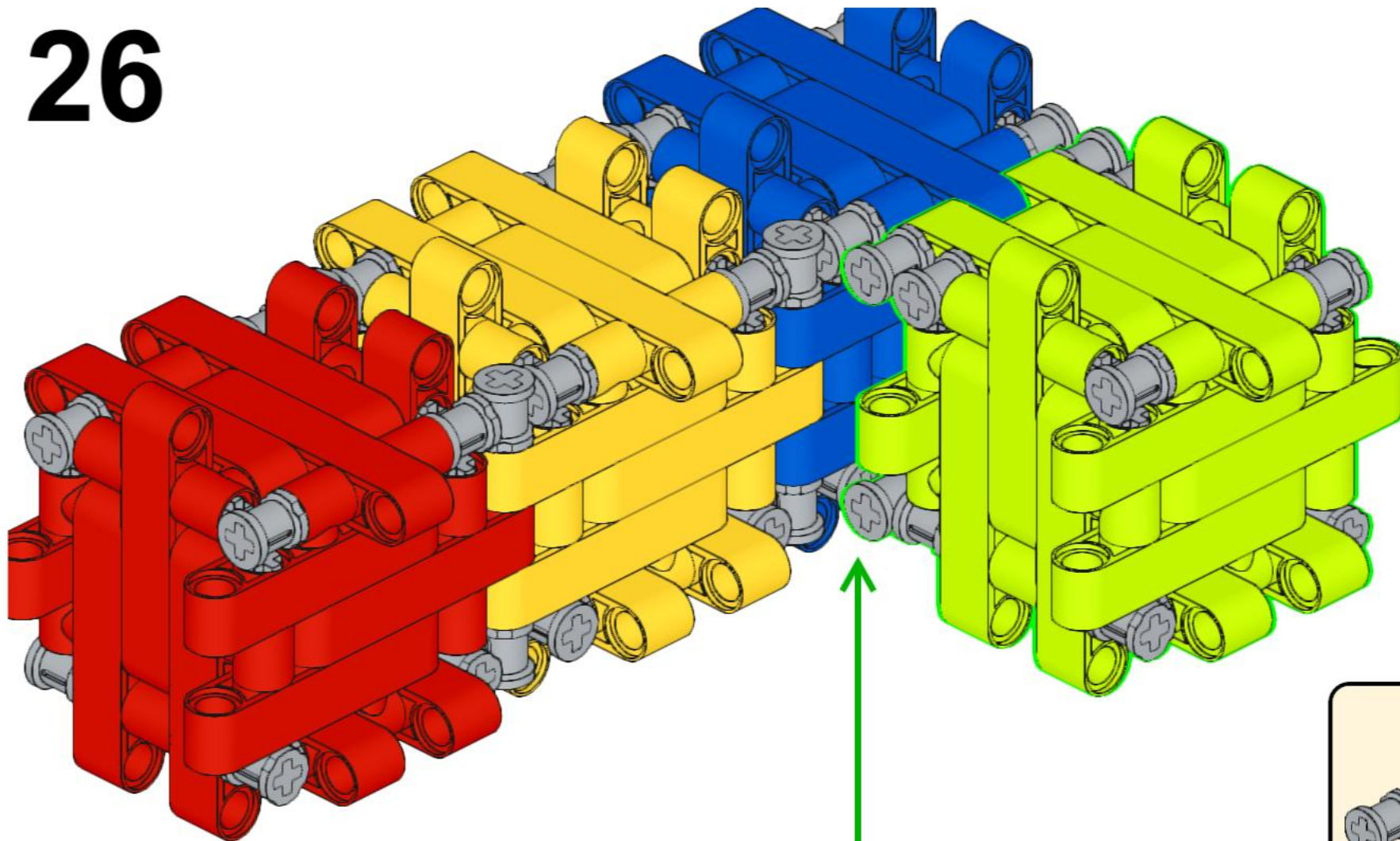
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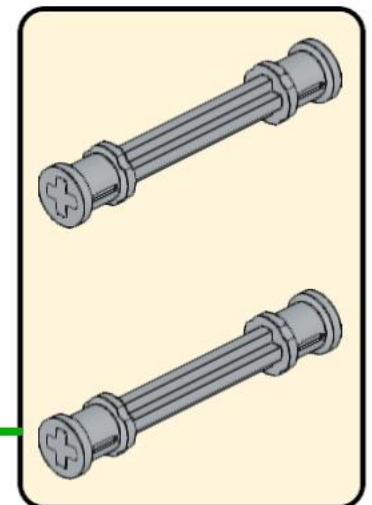
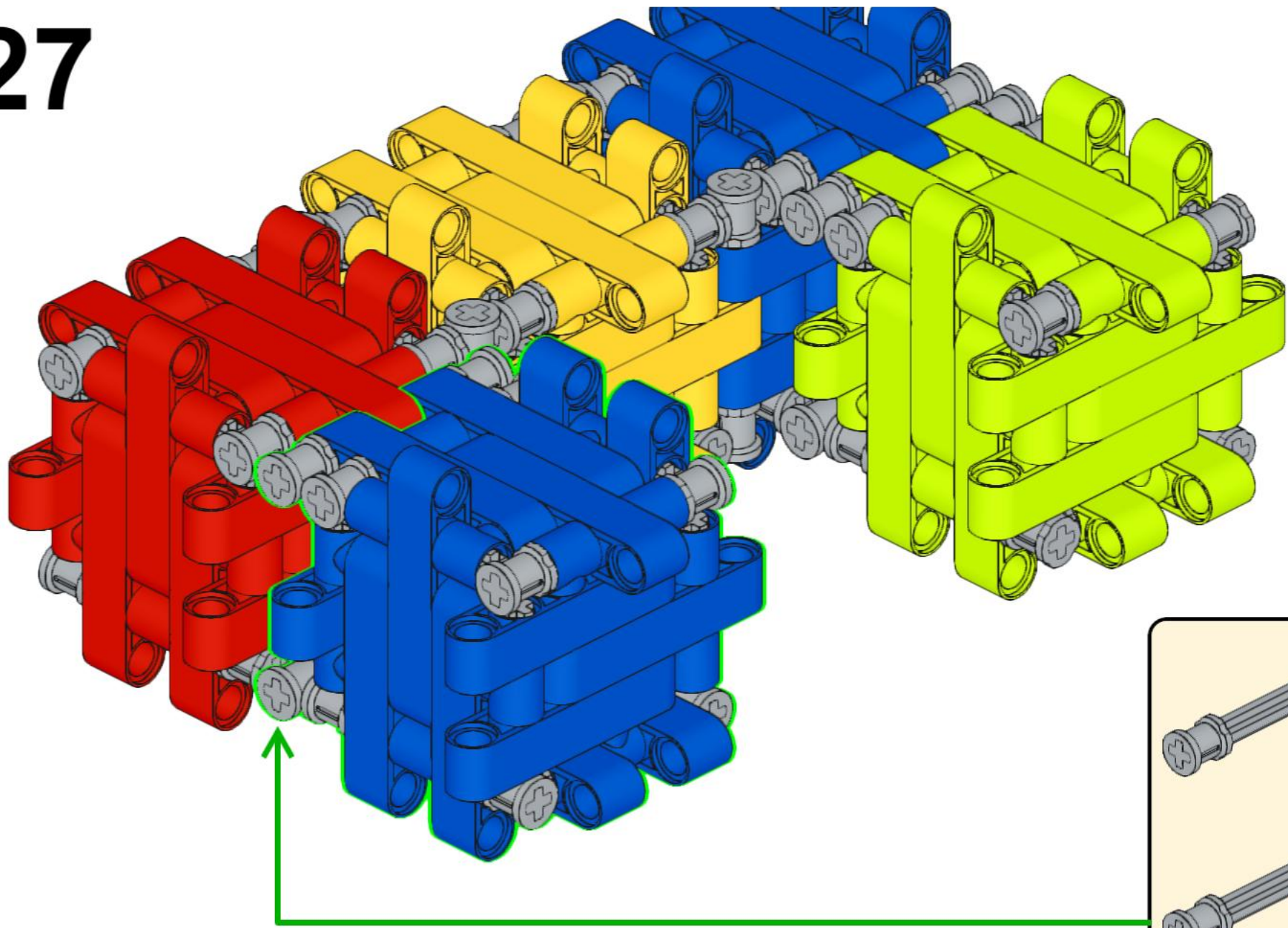
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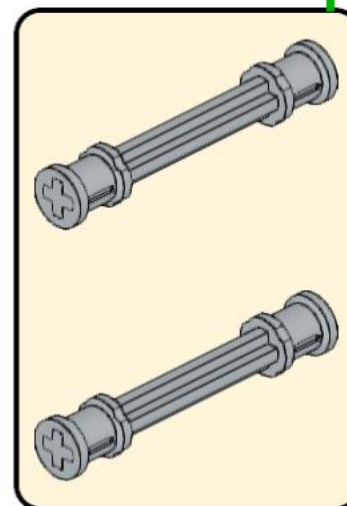
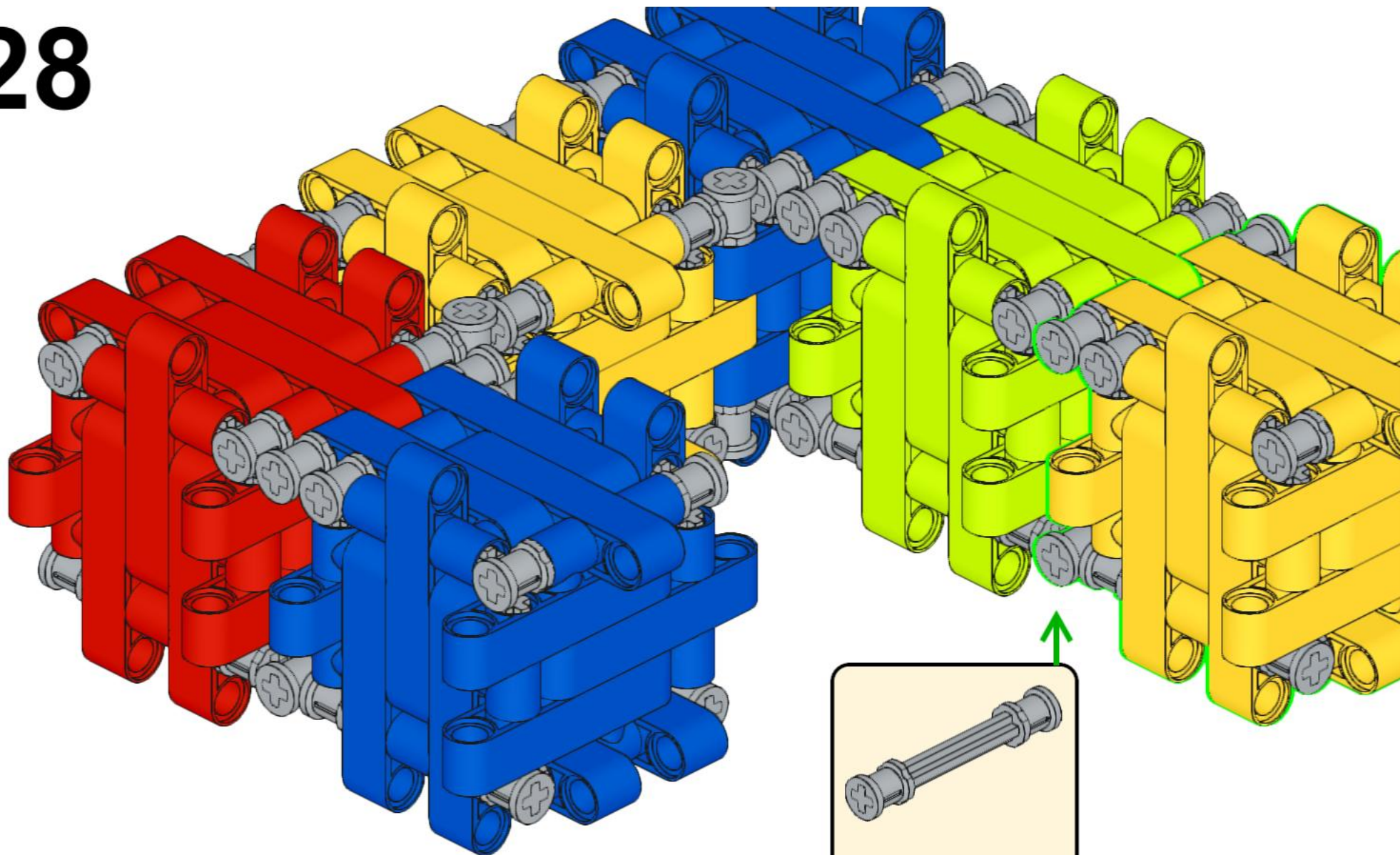
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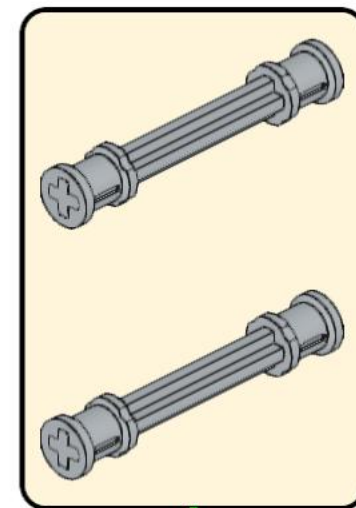
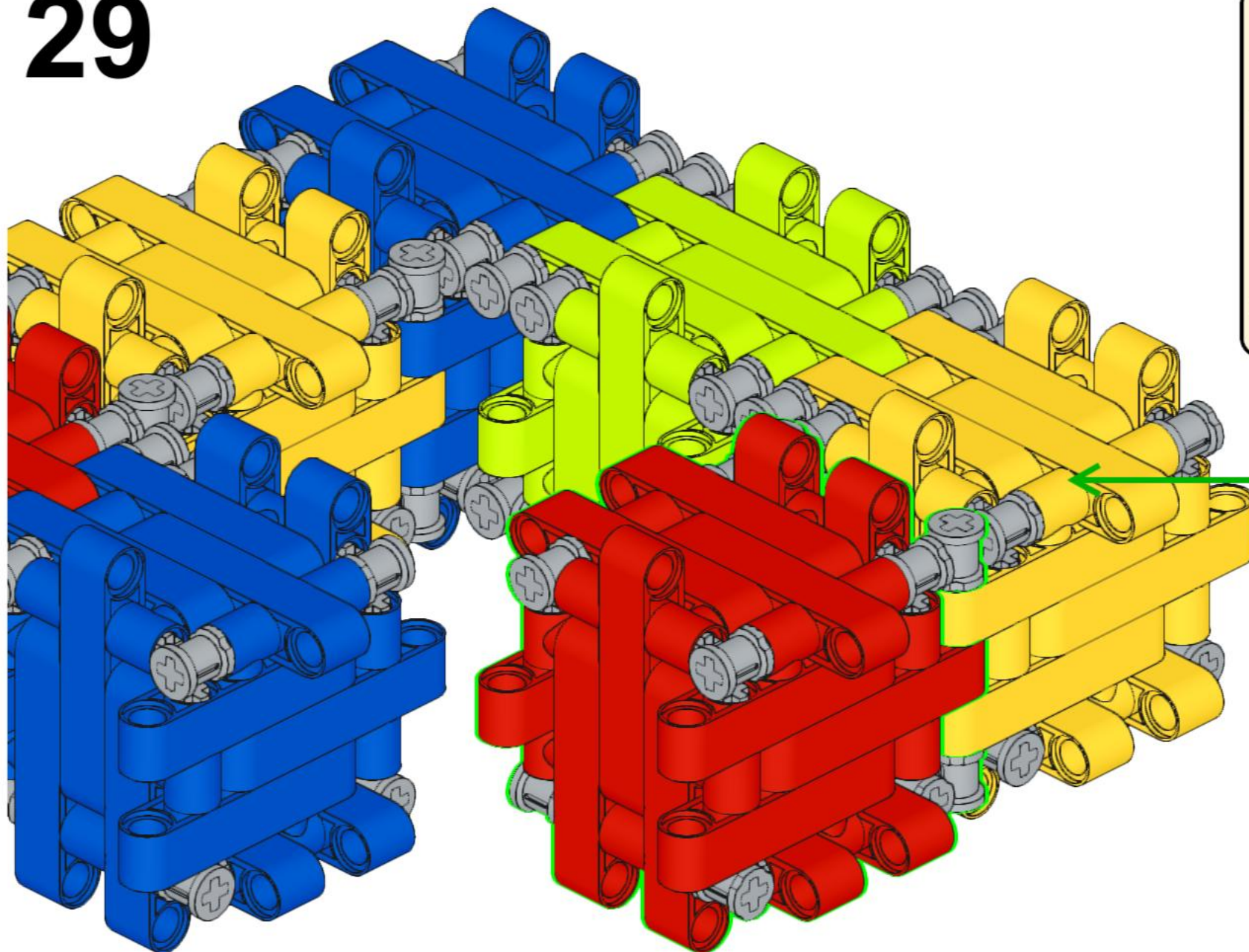
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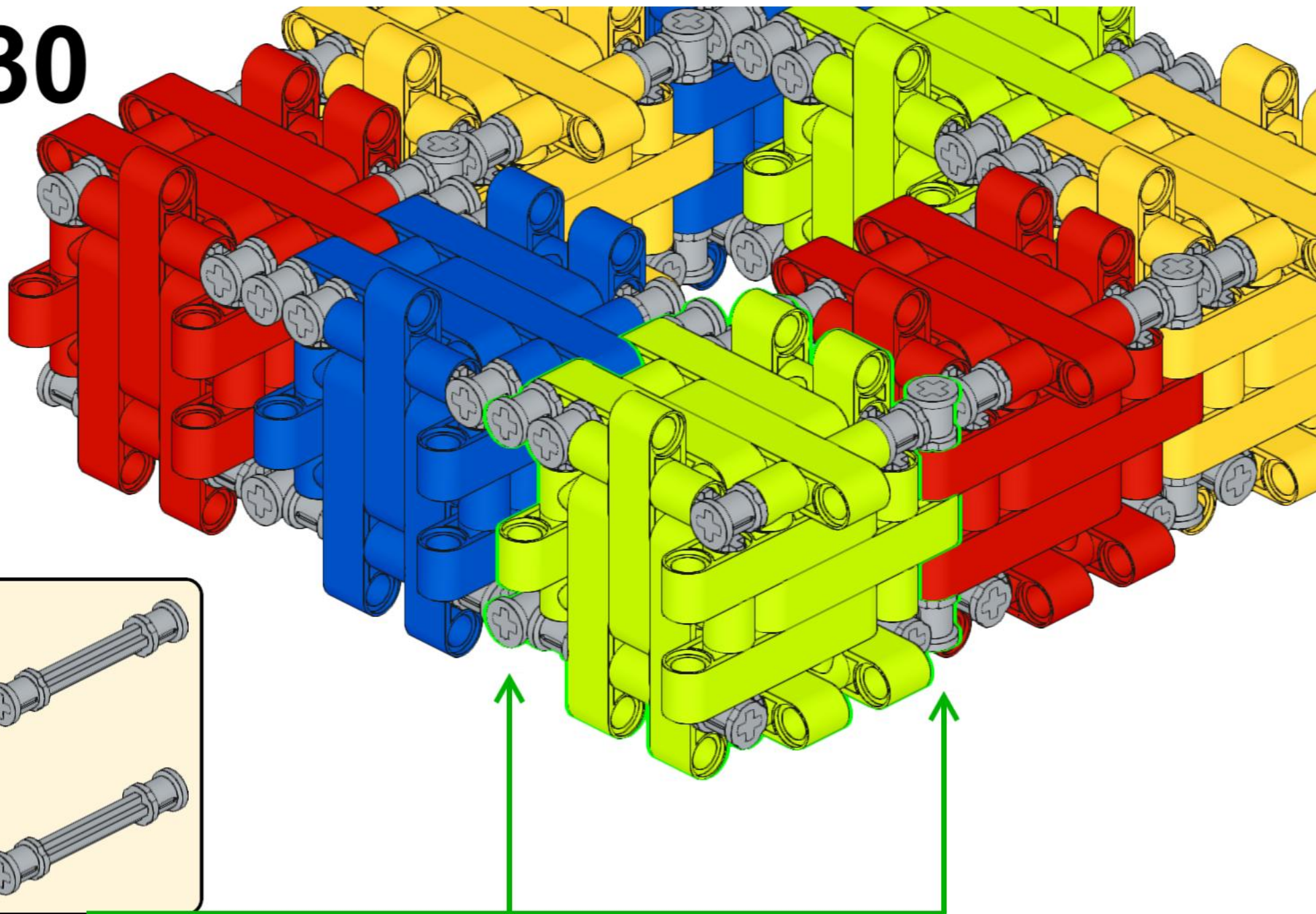
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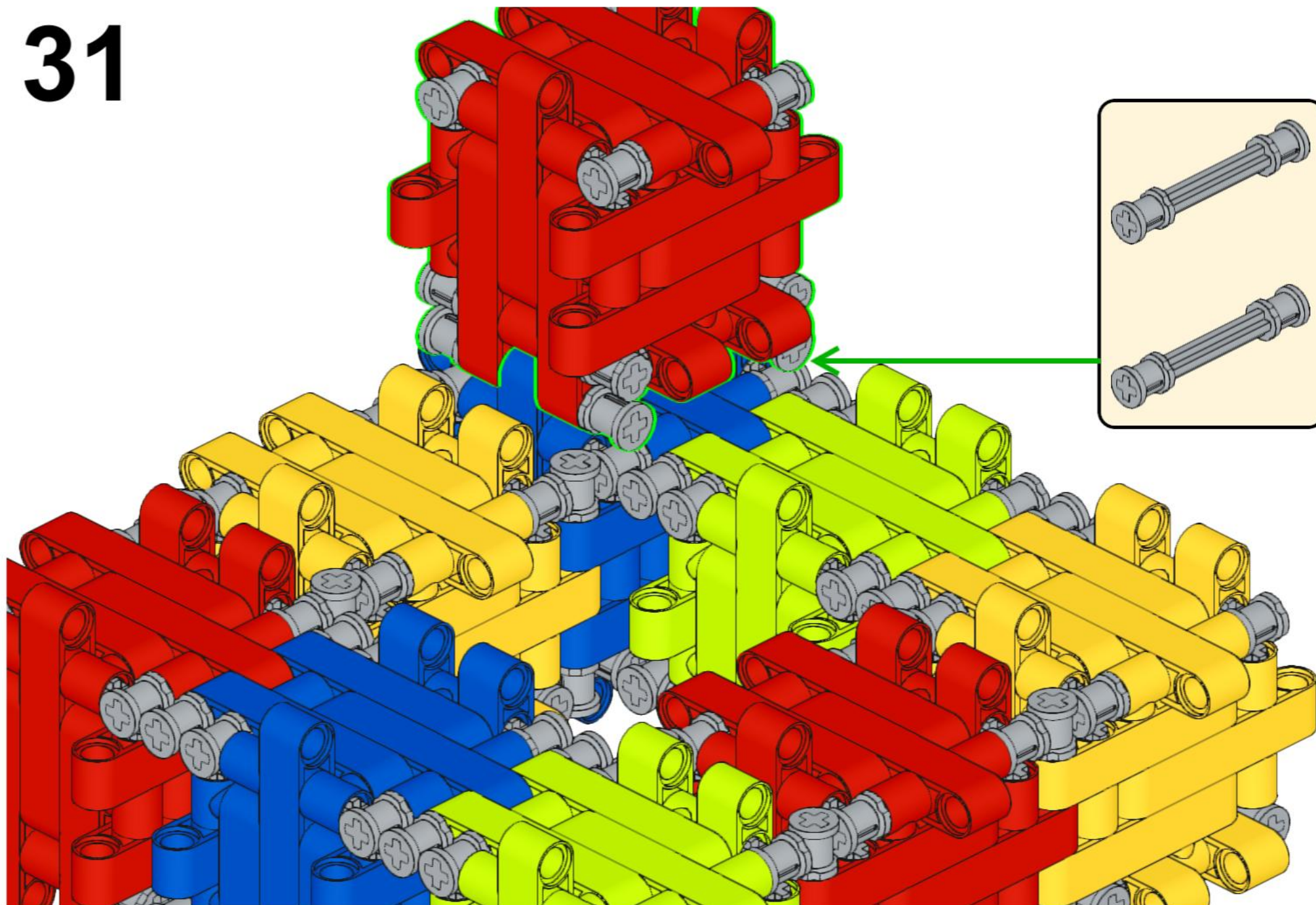


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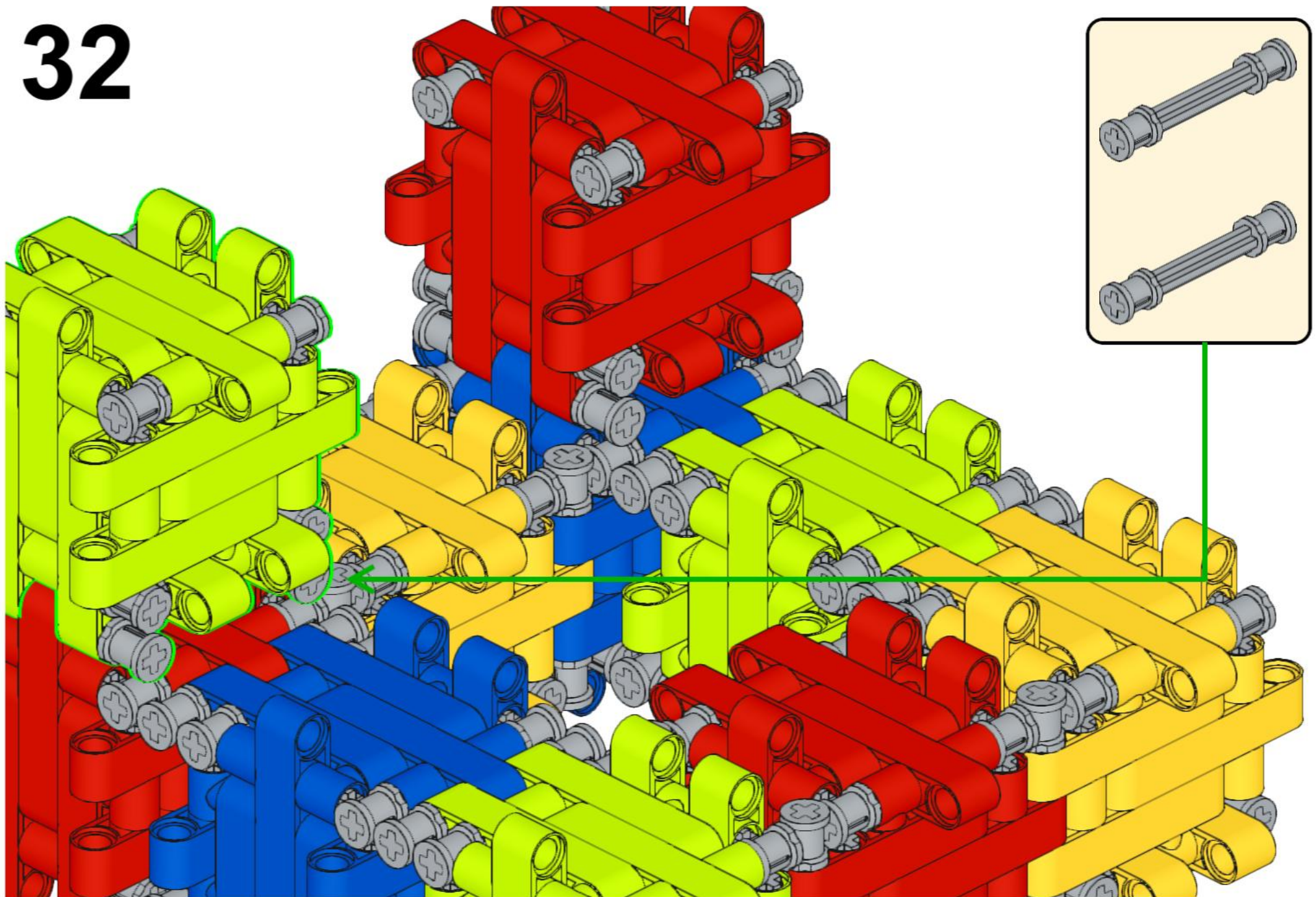


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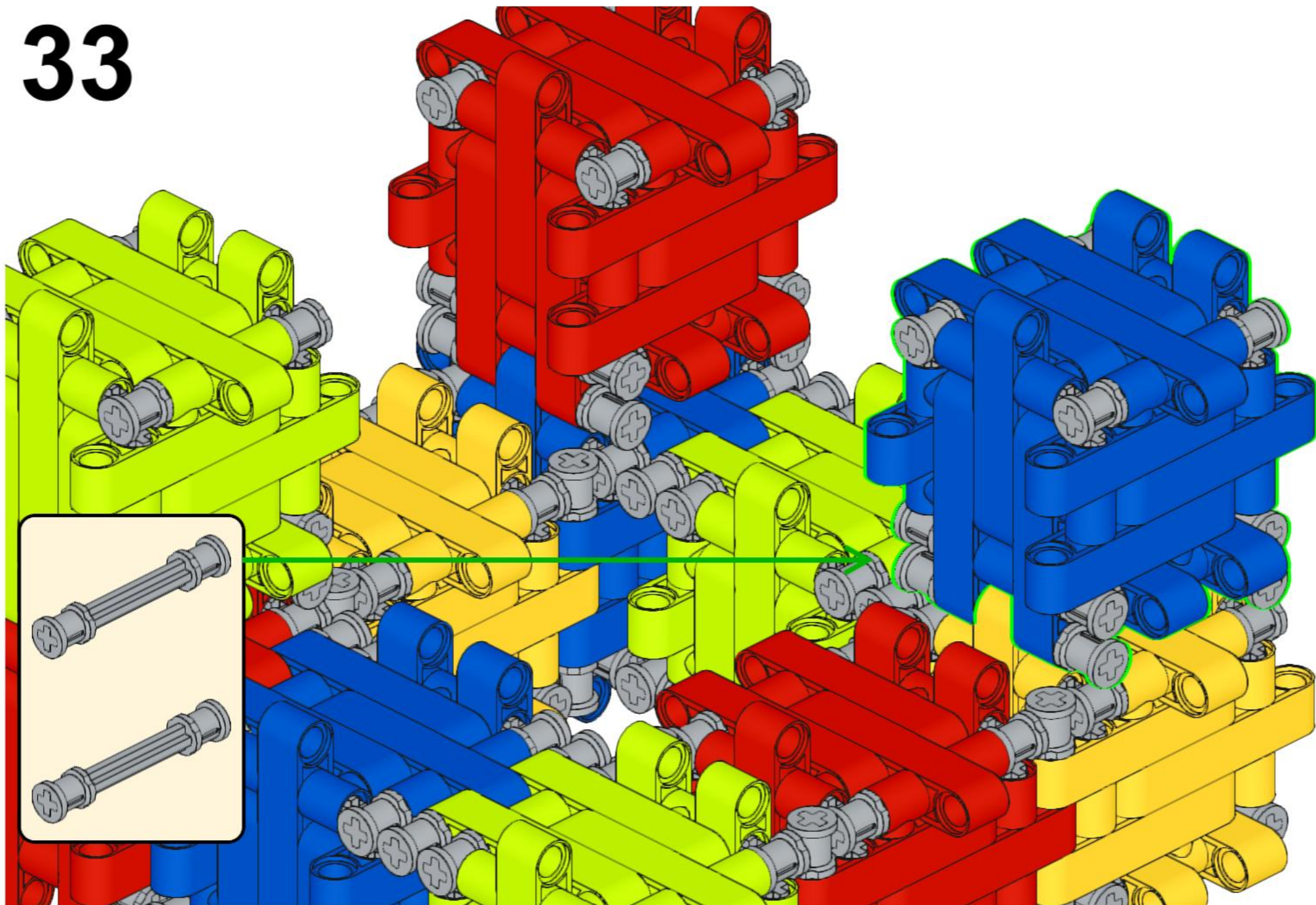
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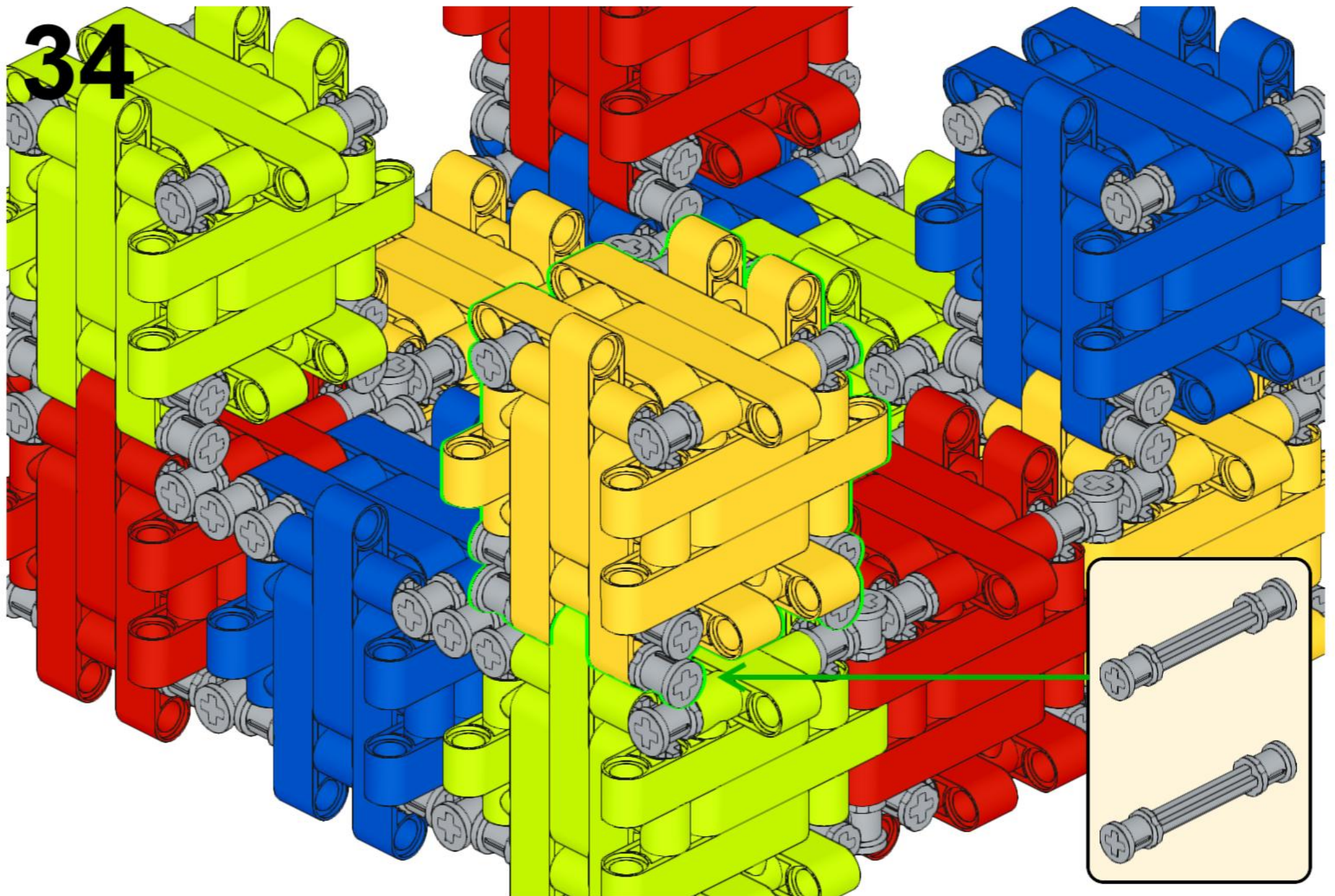
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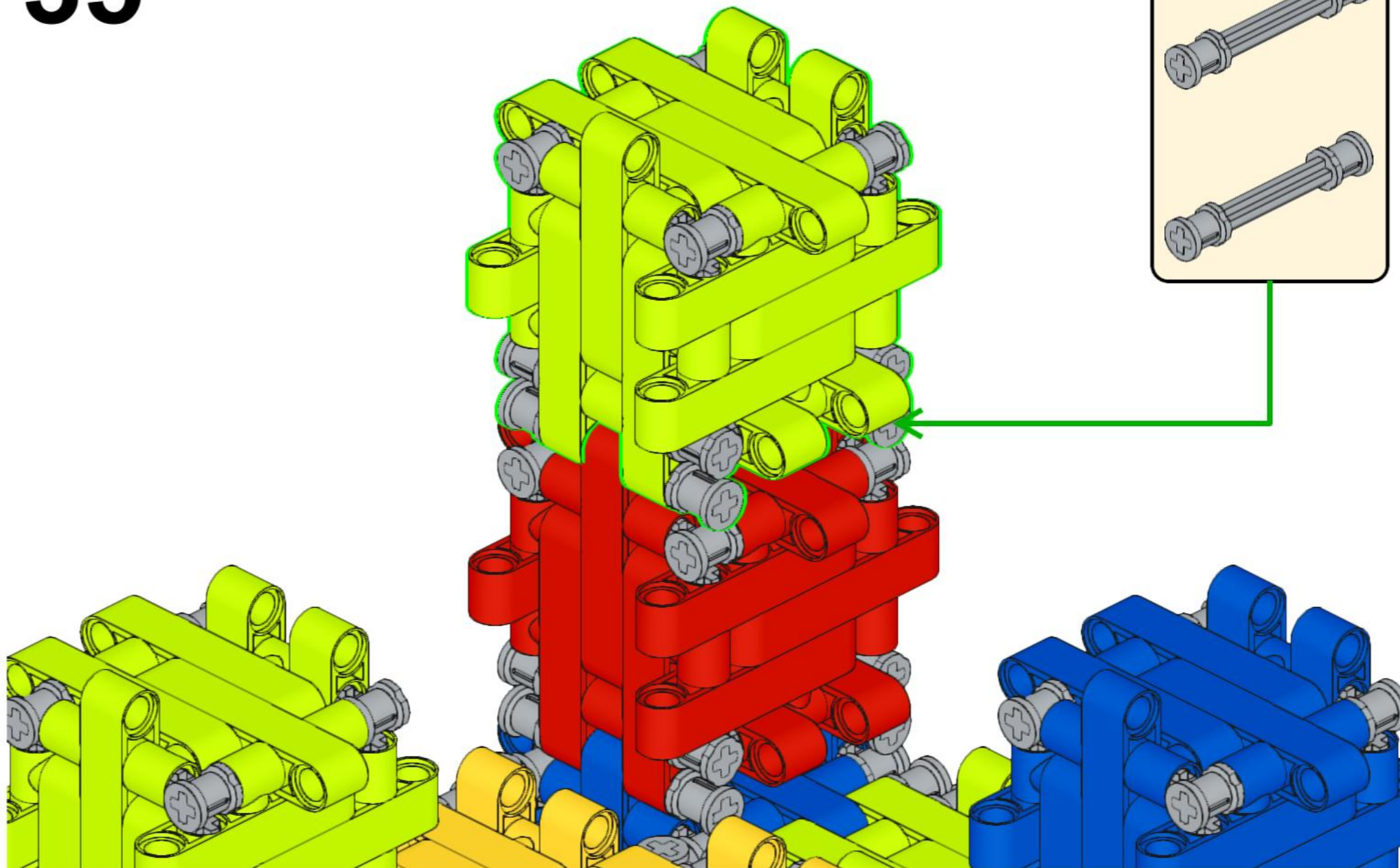
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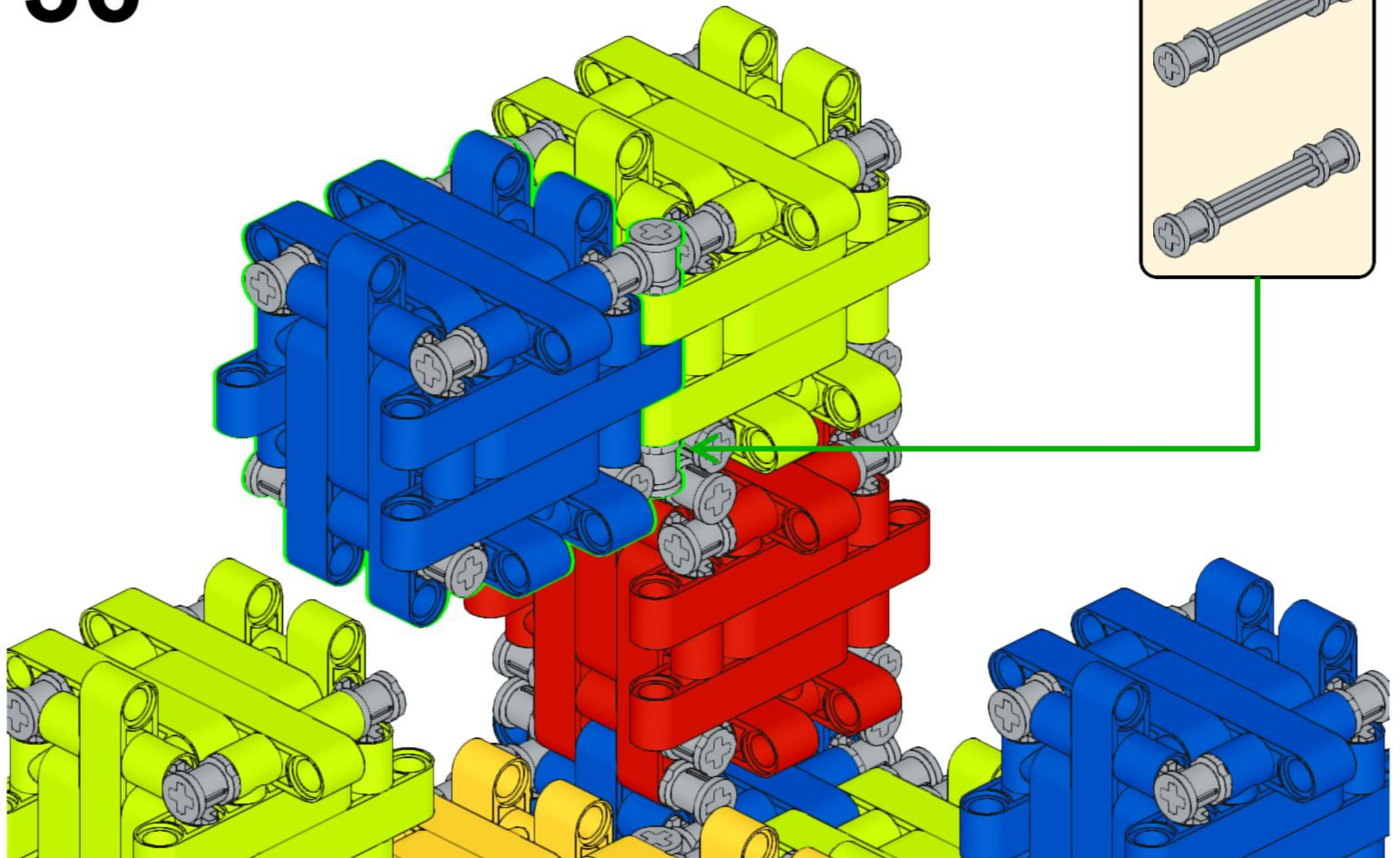
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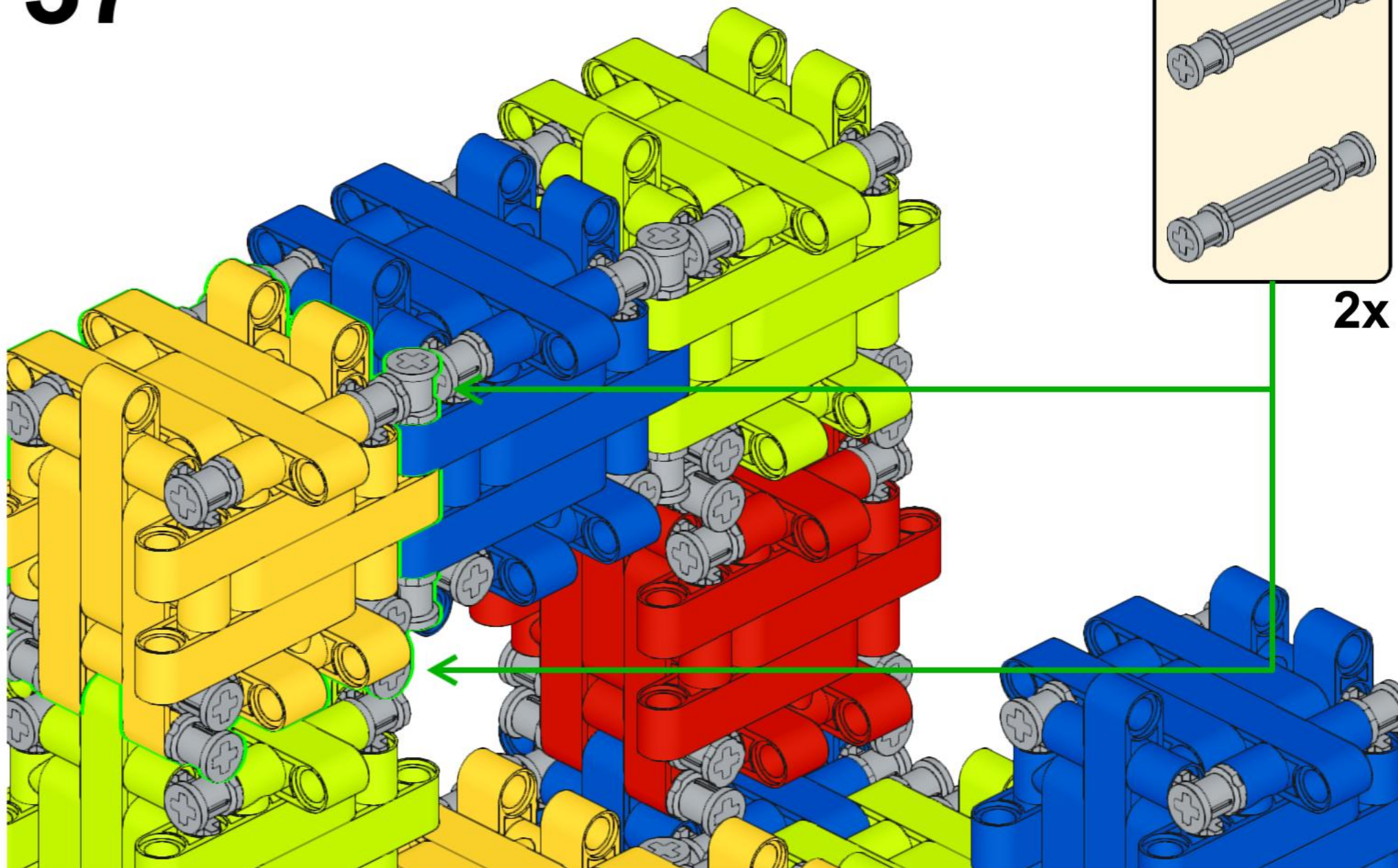
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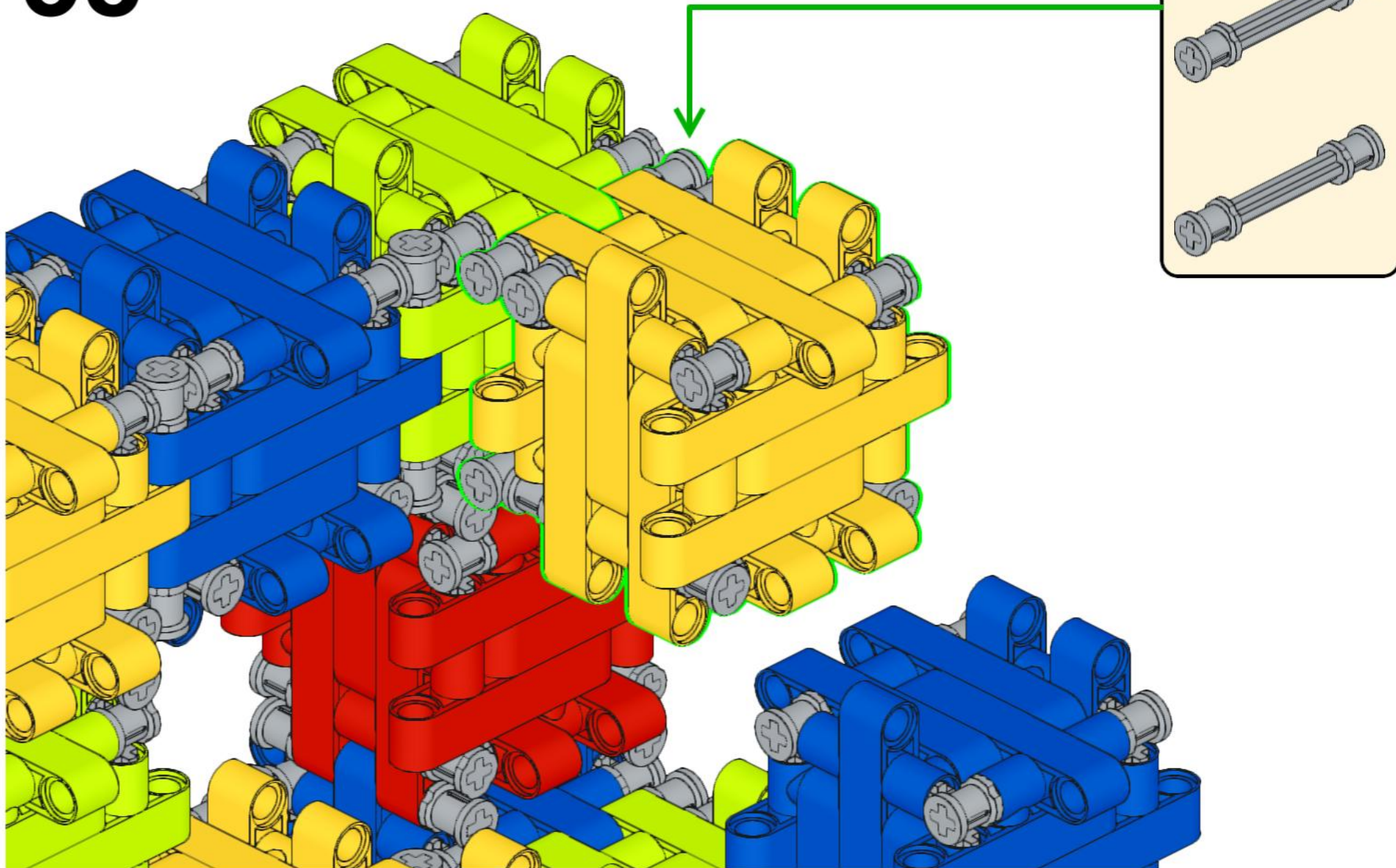
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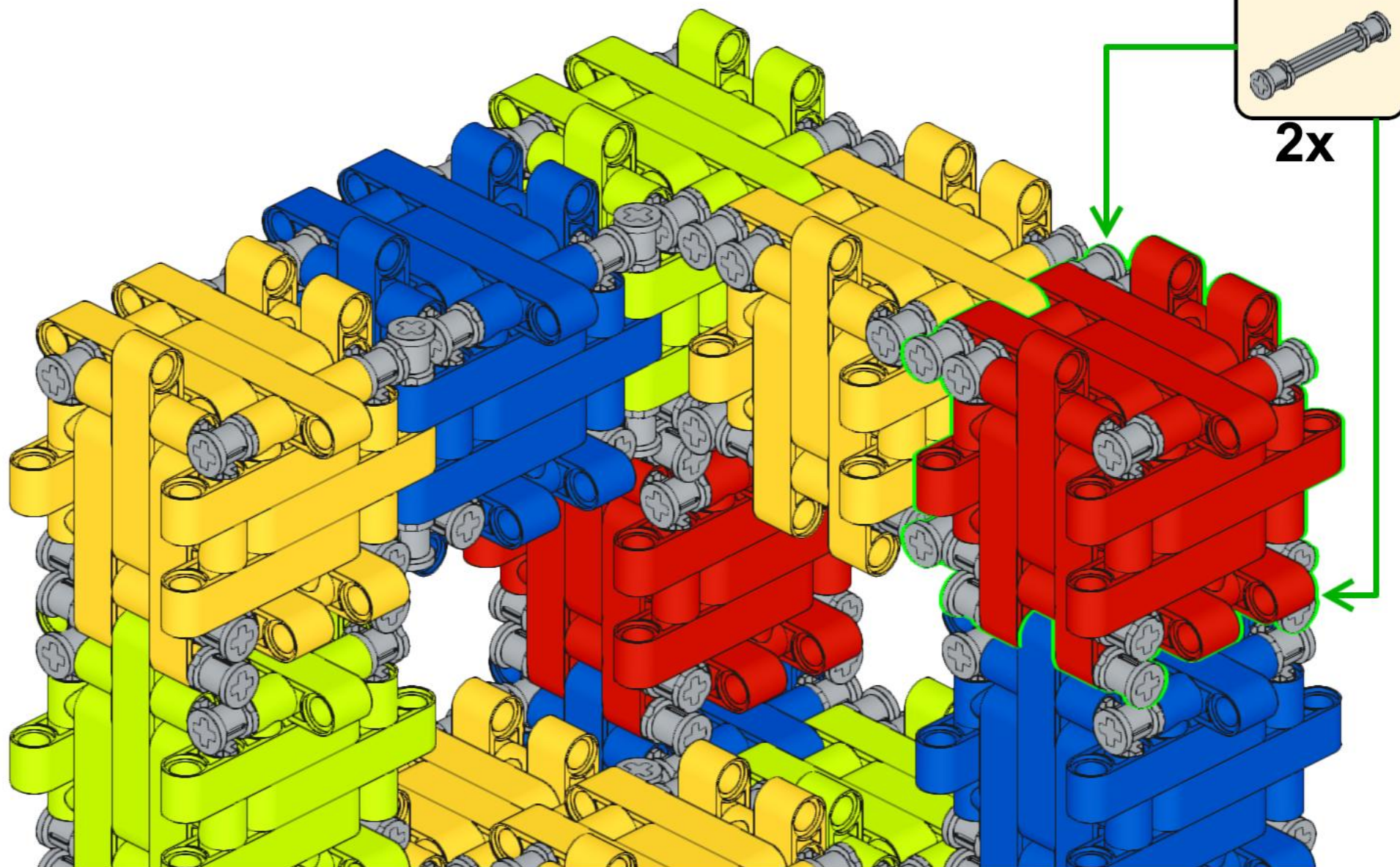
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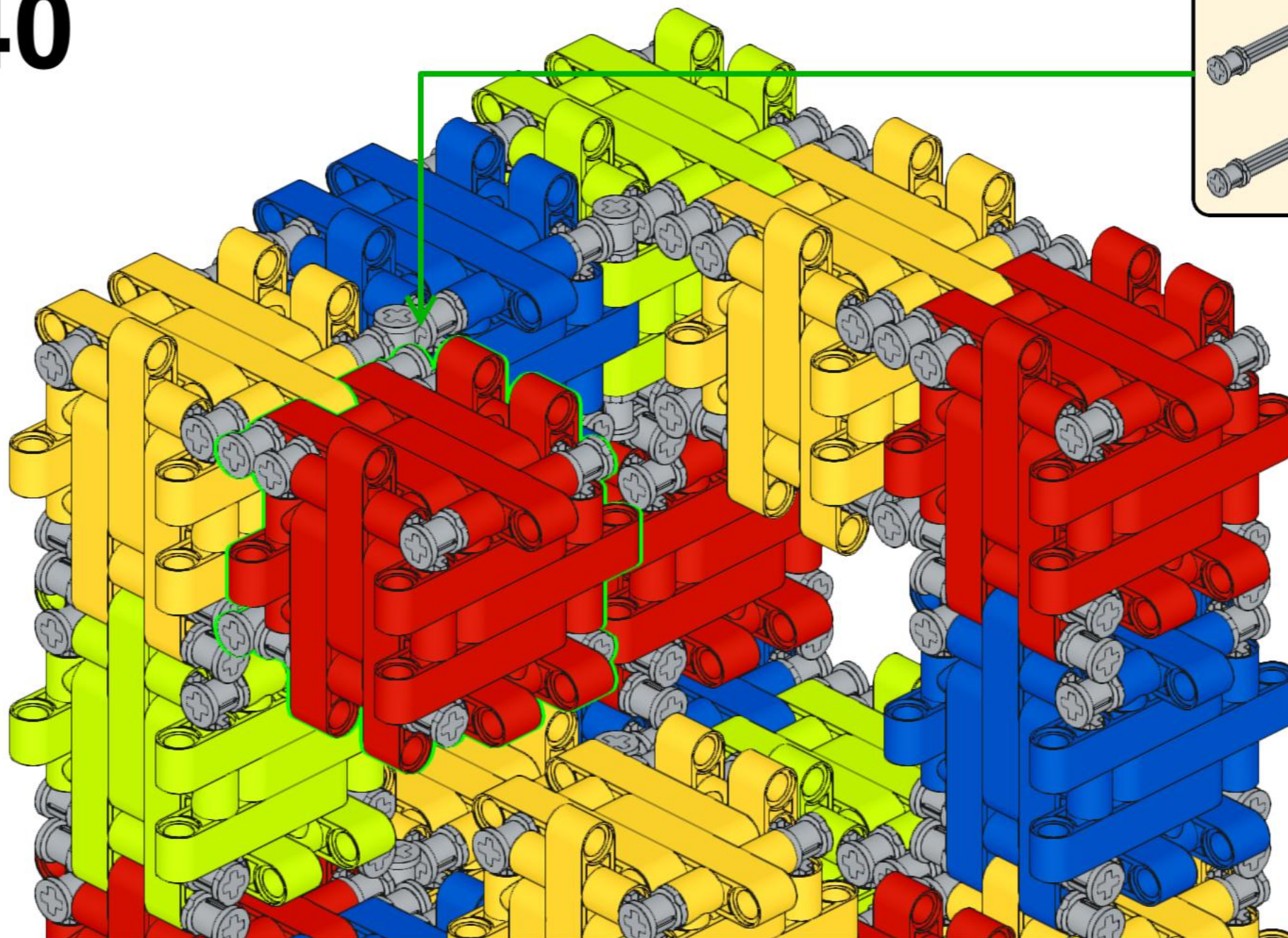
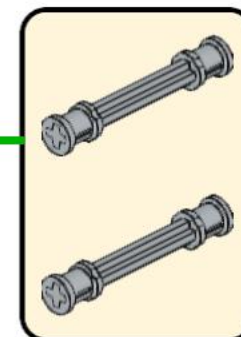
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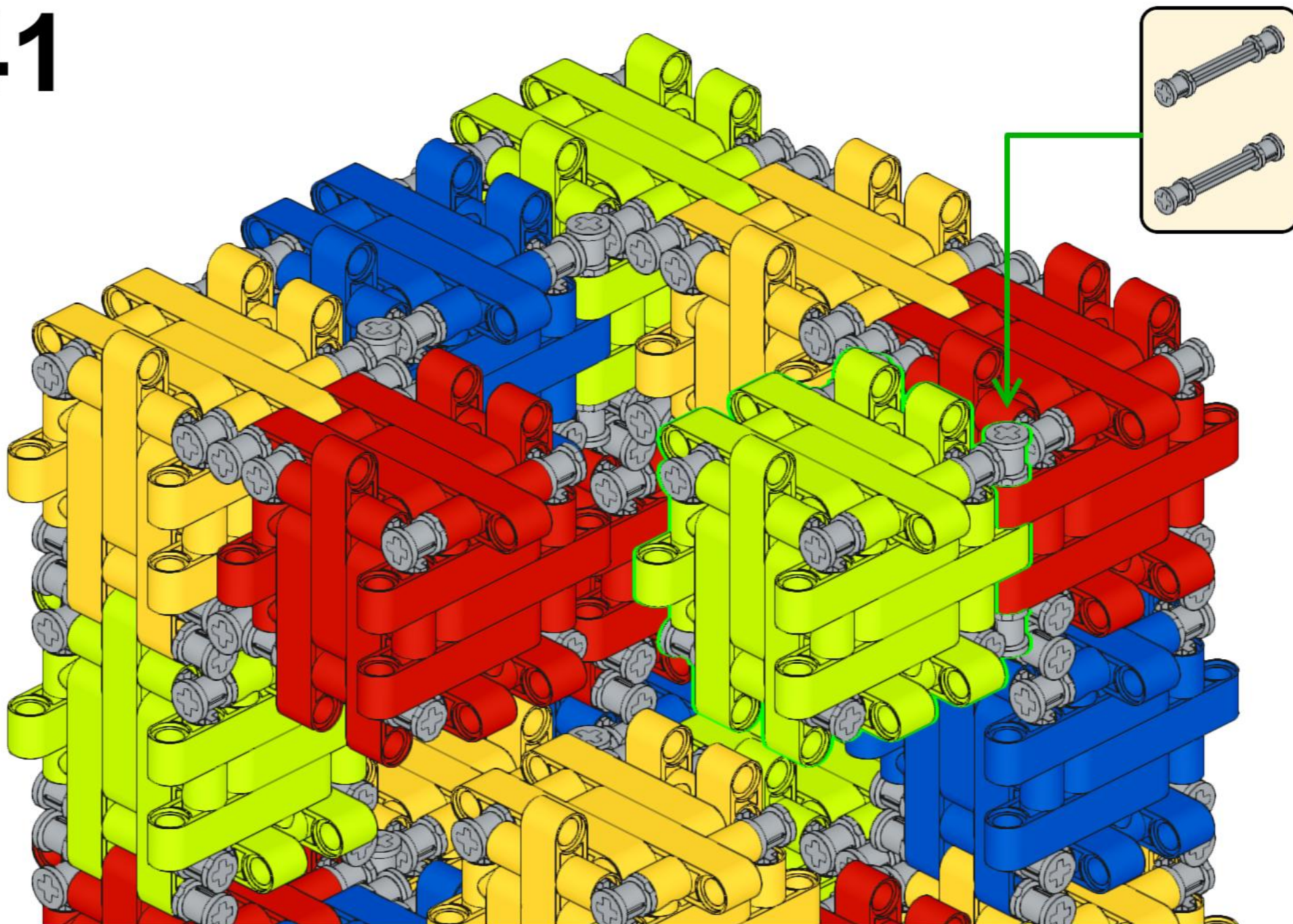
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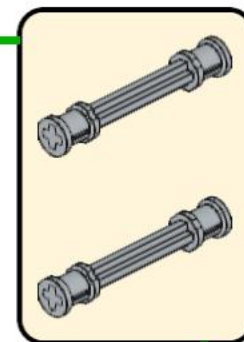
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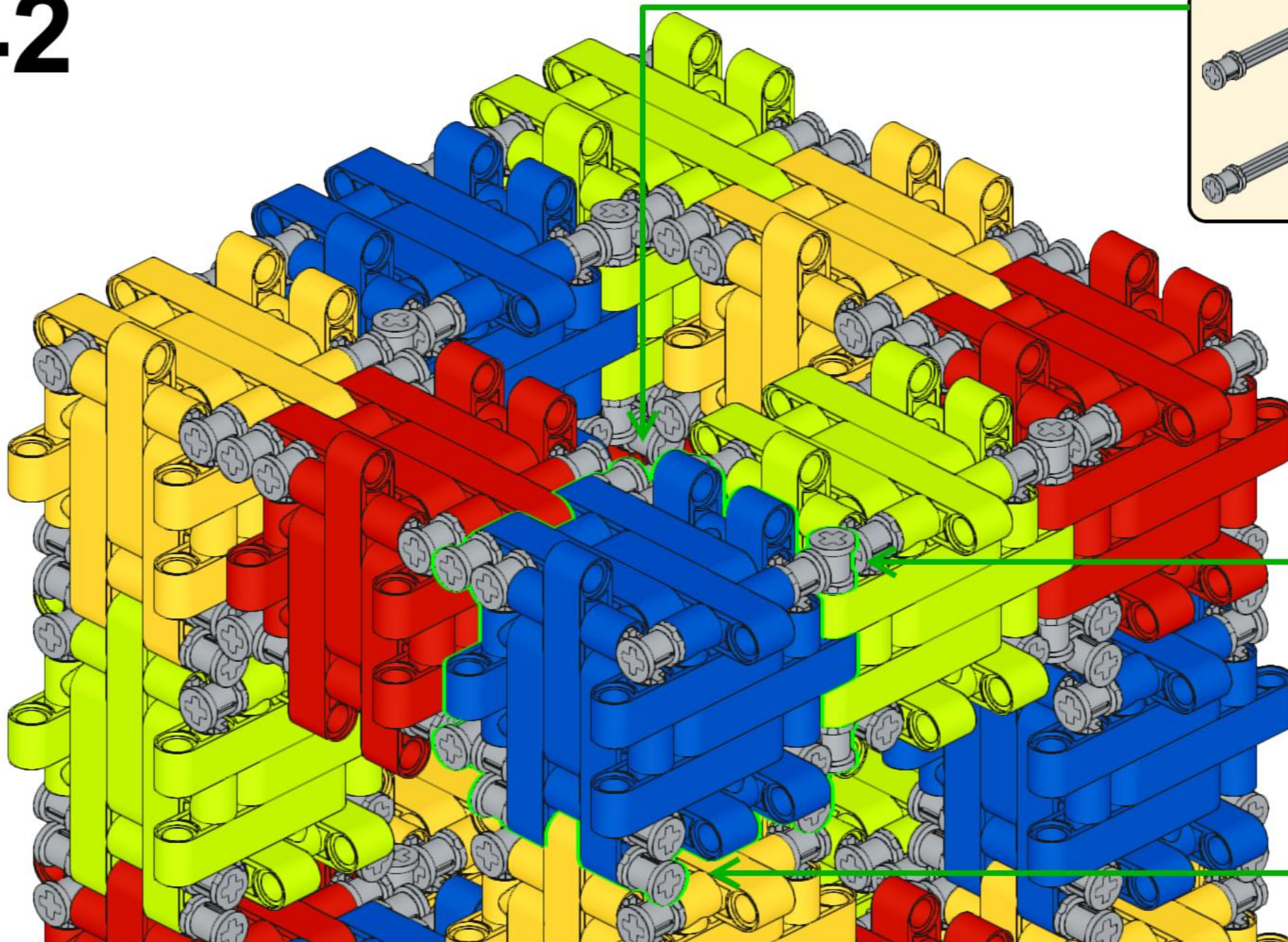
41



42



3x



43

