

MINDSTORMS® EV3 SOCCER ROBOT EXTENSION SET FOR LEGO® 31313



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Sioux brings **high-tech** to life

Sioux has all the expertise in-house to contribute to the maximum success of high-tech products and production systems. Sioux's strength lies in the unique combination of high-quality competences in software, mechanics, optics, physics, mechatronics, electronics, mathematics and final assembly & testing.

With more than 700 engineers Sioux supports or forms the R & D department of leading high-tech companies. Sioux is keen to take responsibility: from creating ideas in the conceptual phase up to the delivery of serial production. Sioux wants to add value to its clients and build innovative solutions that can contribute to a society that is smarter, safer, healthier, more enjoyable and more sustainable.

Sioux is the main sponsor of the robot soccer team Tech United Eindhoven. Our sponsorship was the start of the idea to build a LEGO® version of the soccer robot. By this means, Sioux aims to encourage young people to follow an engineering career.

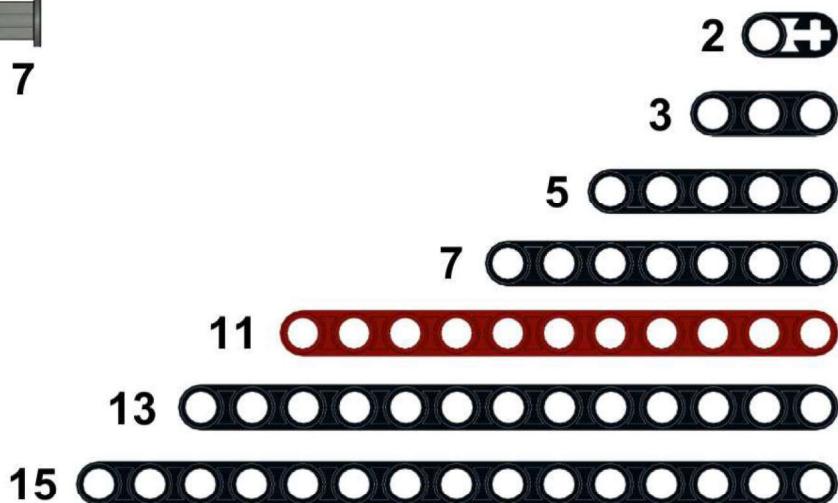
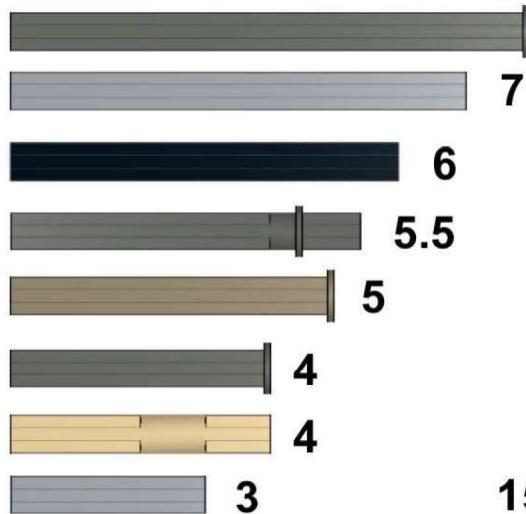
The LEGO® Mindstorms® 31313 set is used as the basis for the robot. The extension set contains all the additional elements to build the soccer robot. All parts in the extension set are original LEGO, with the exception of the three Omni wheels. Please note that you need a complete LEGO Mindstorms 31313 set to build the robot.

We had a lot of fun designing the robot for you, and wish you just as much!

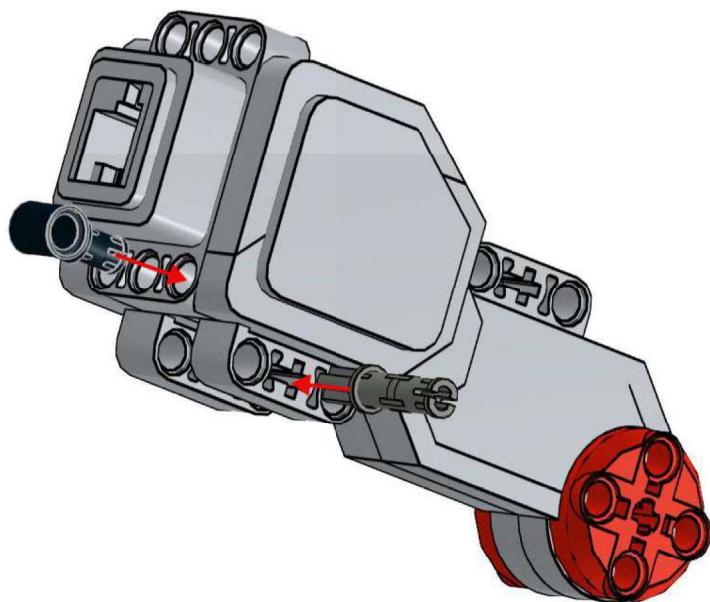
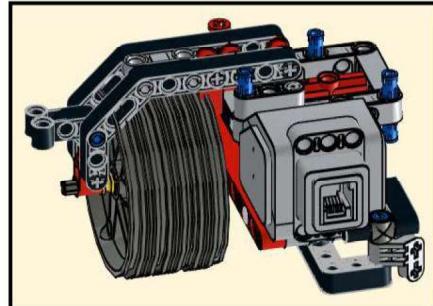
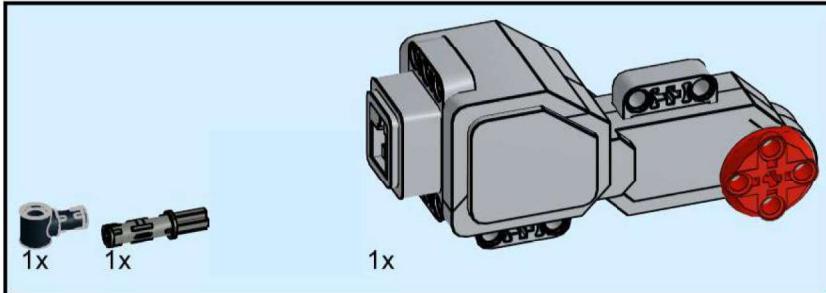
Jan Willem van Silfhout and Hans Odenthal



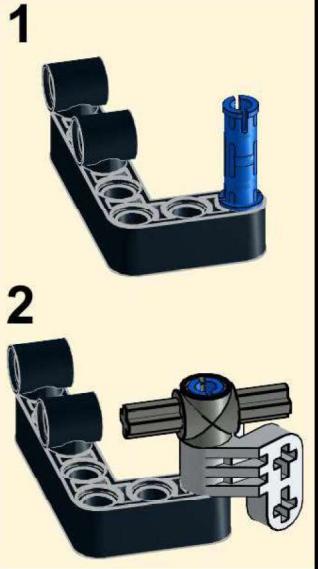
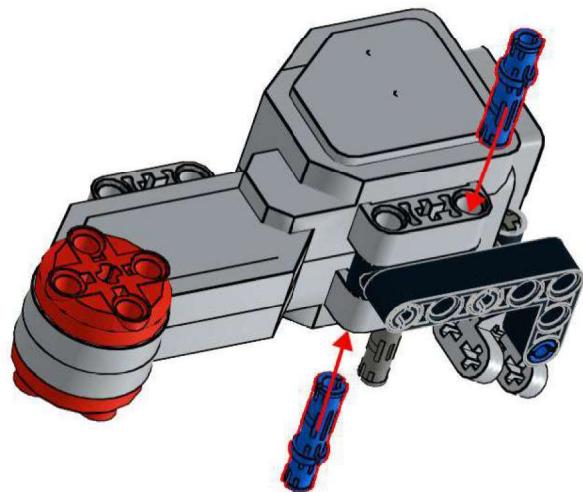
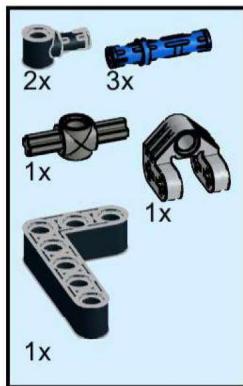
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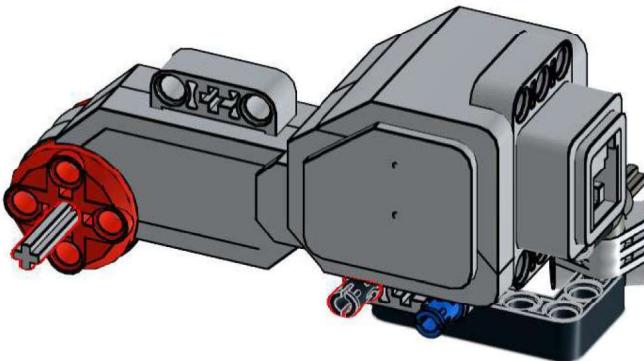
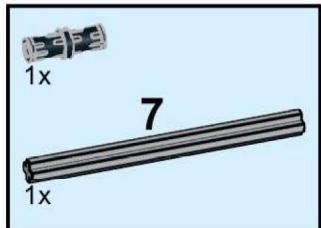
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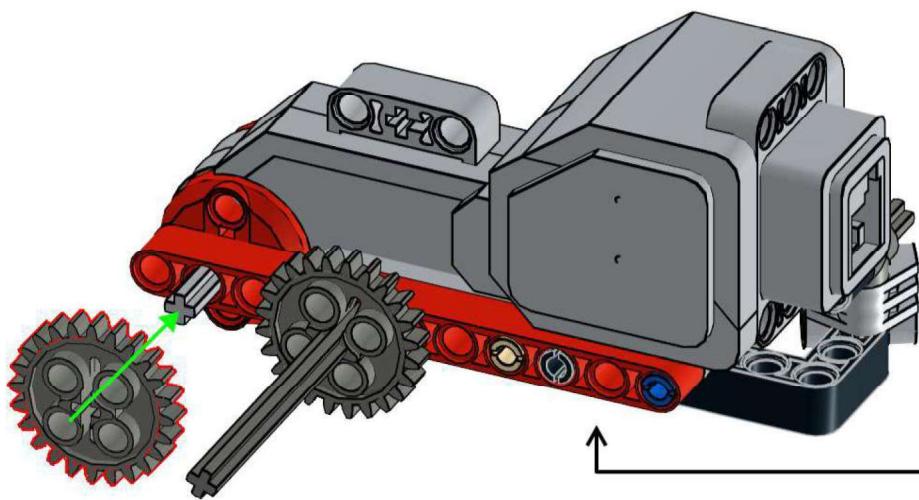
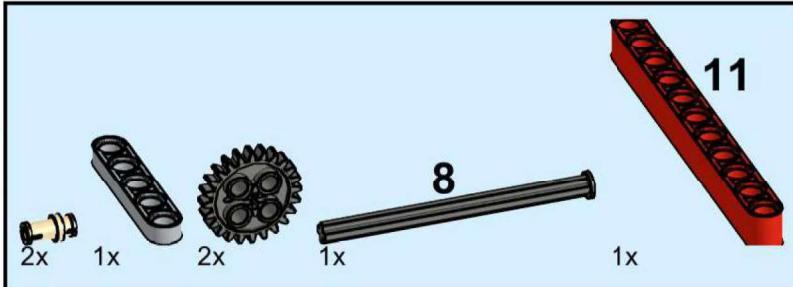
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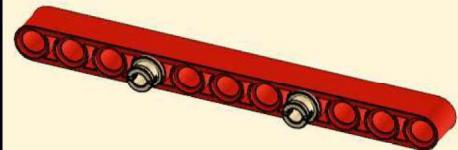
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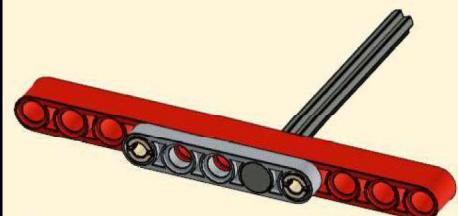
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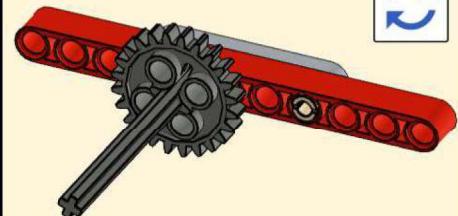
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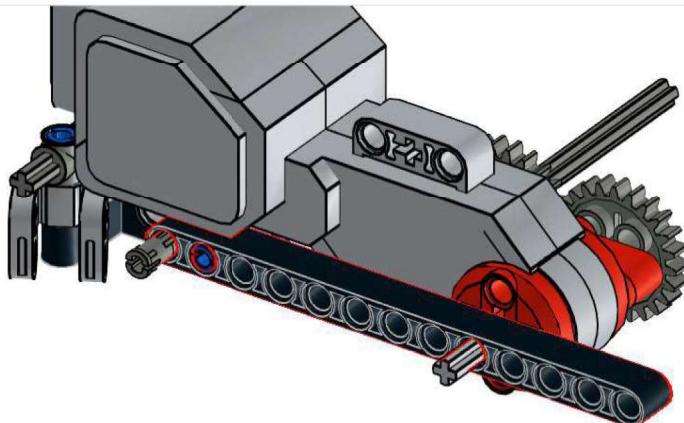
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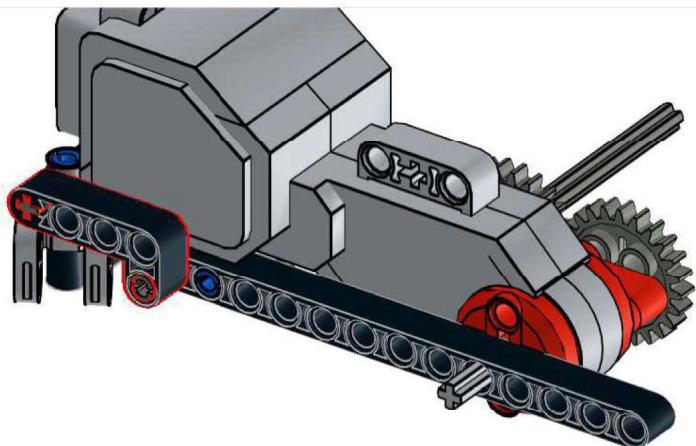
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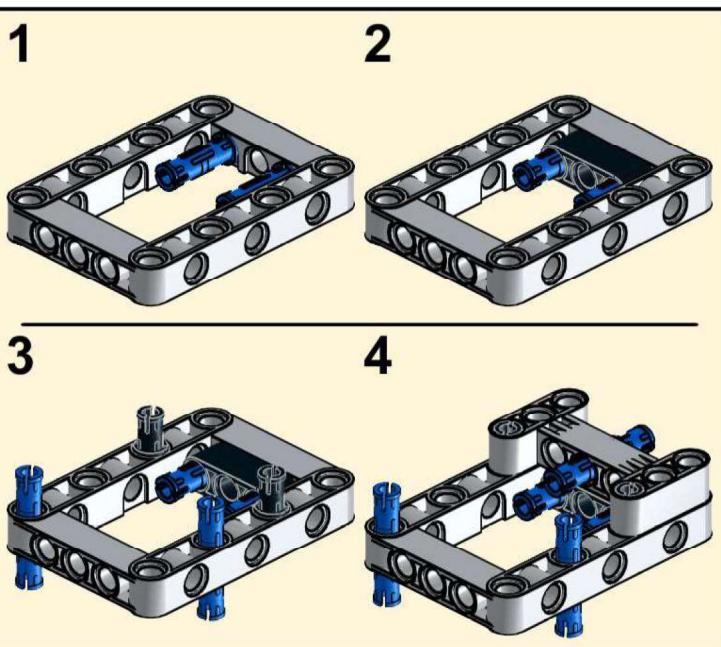
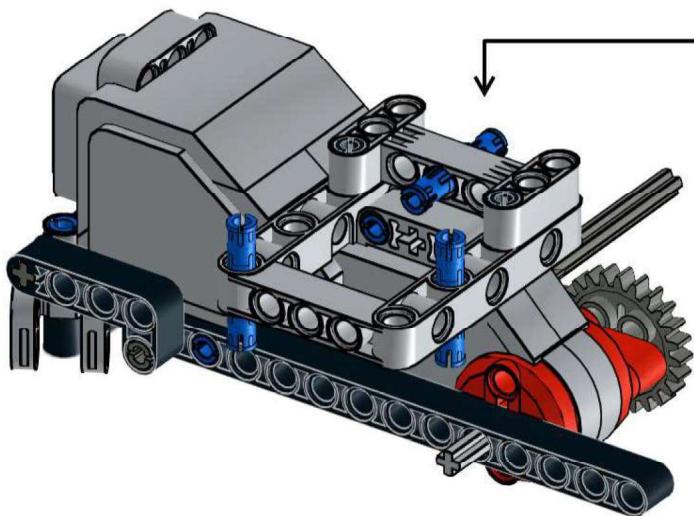
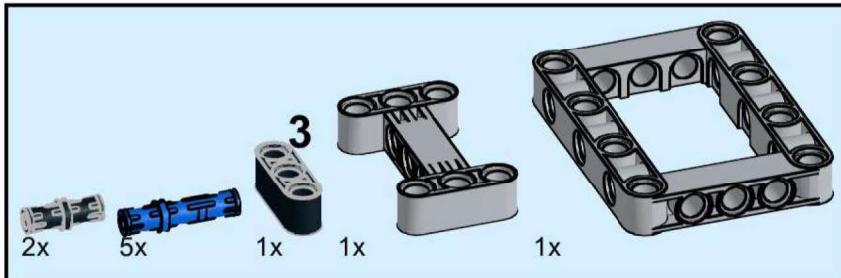
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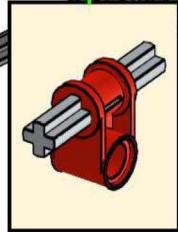
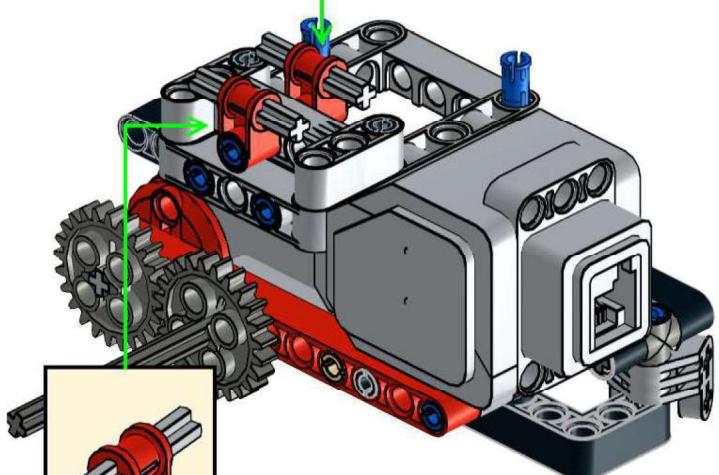
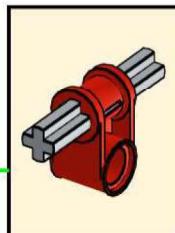
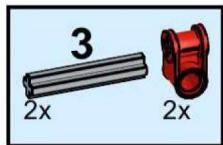
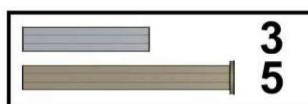
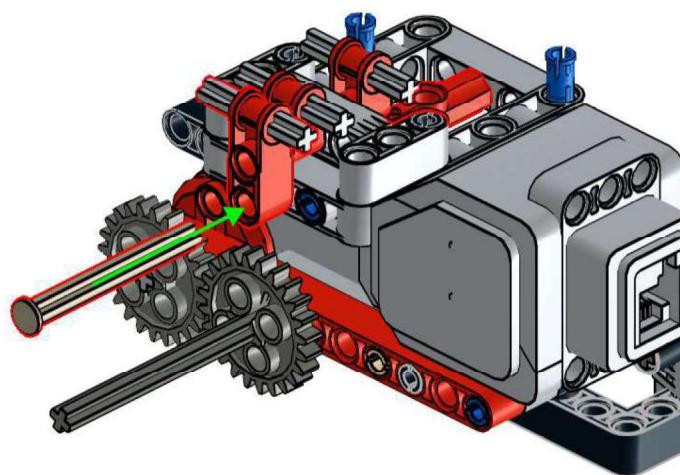
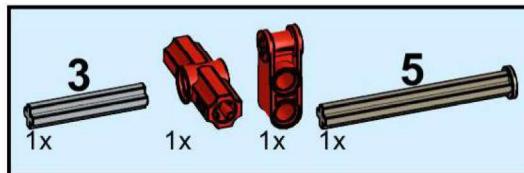


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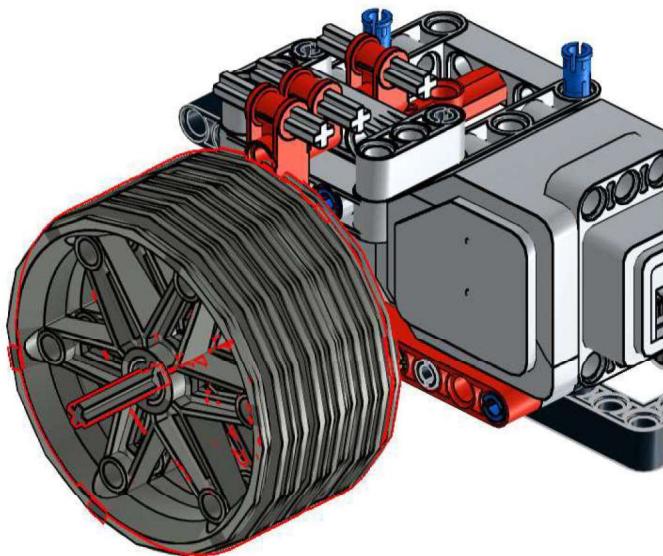


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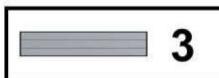
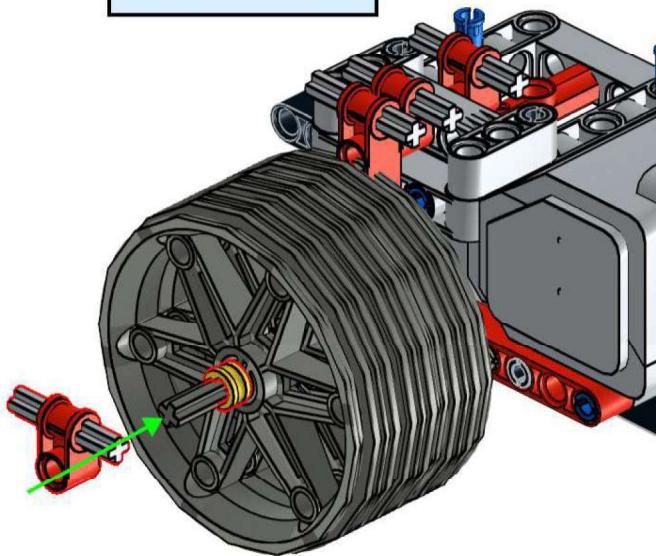
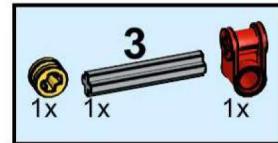


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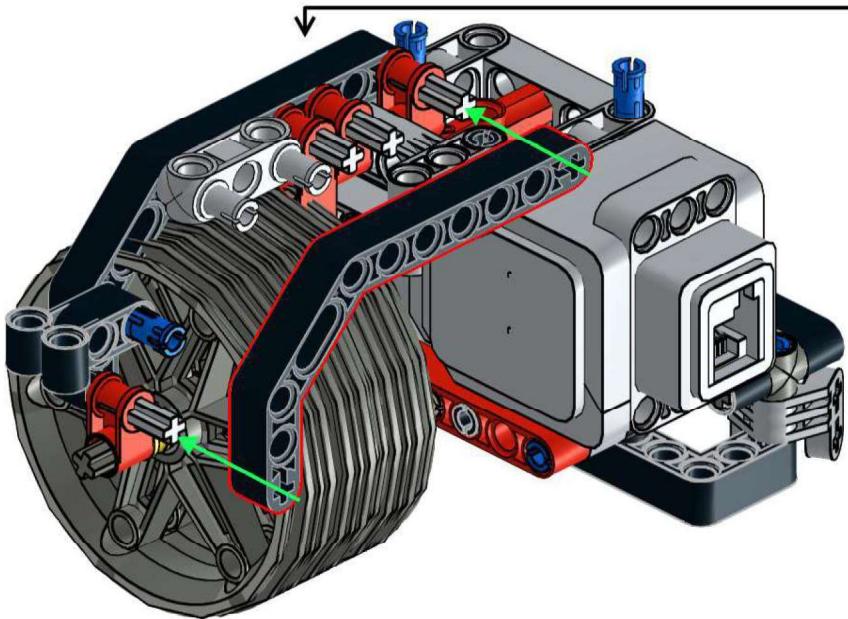
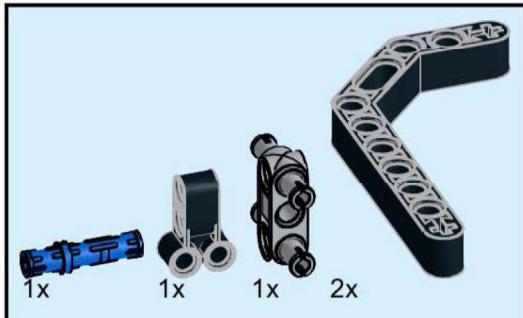
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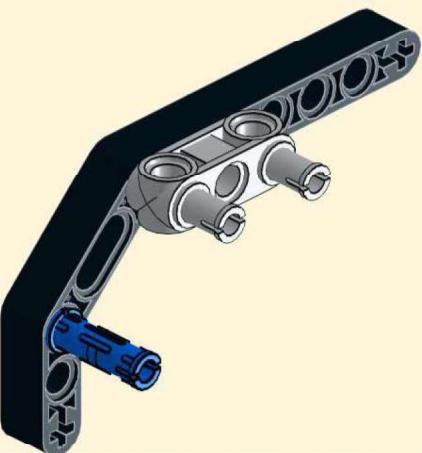
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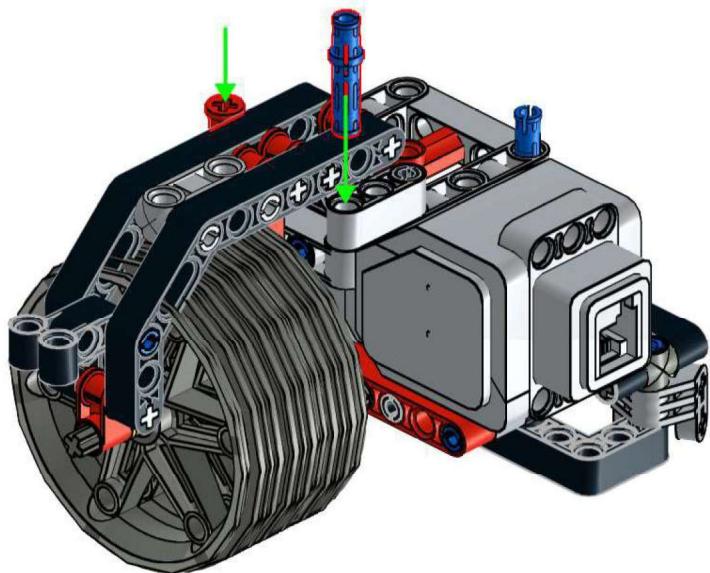
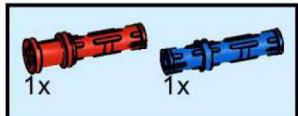
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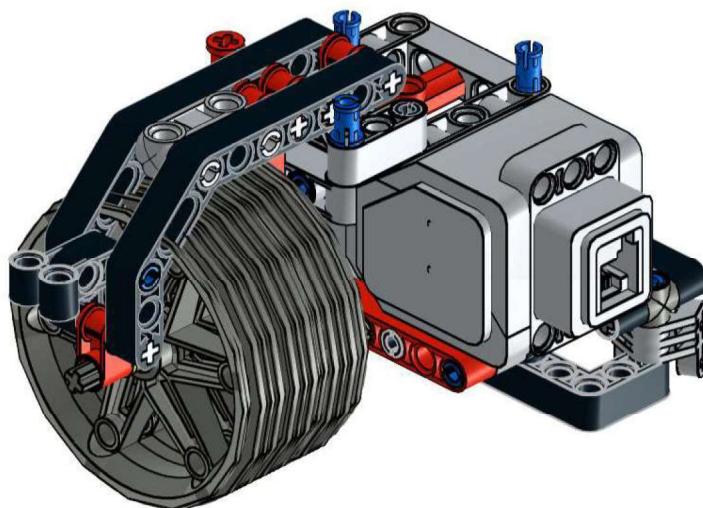
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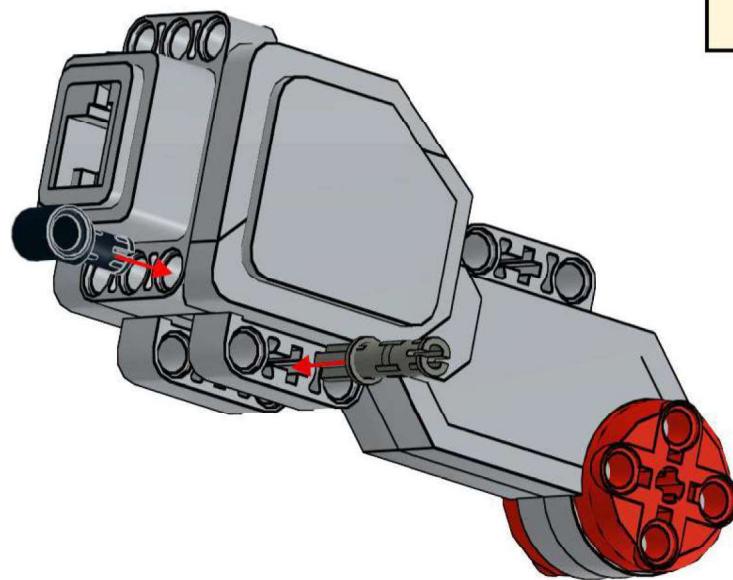
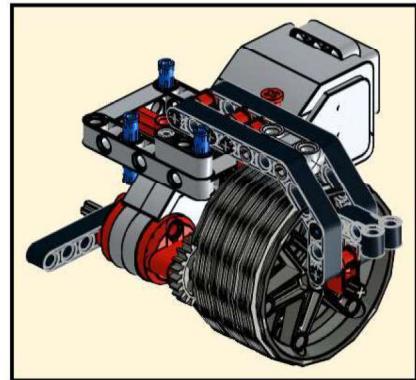
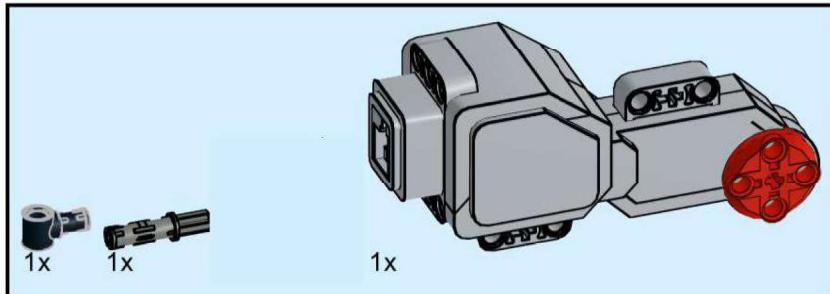
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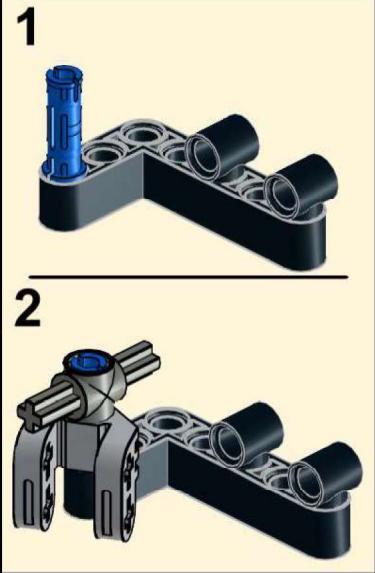
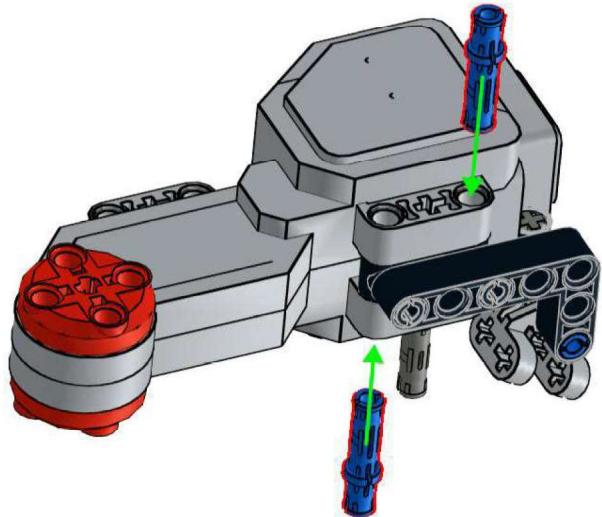
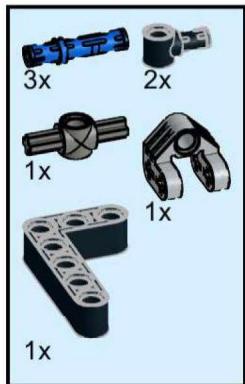
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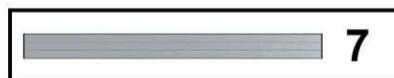
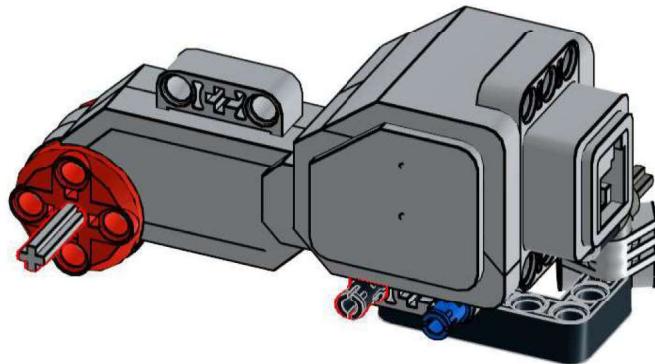
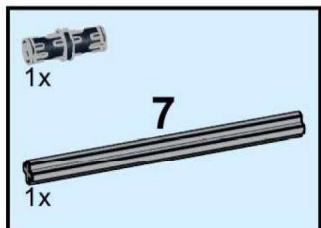
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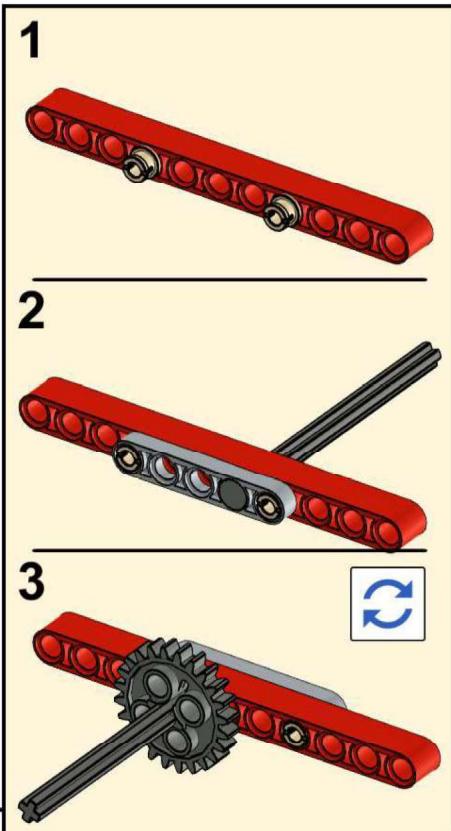
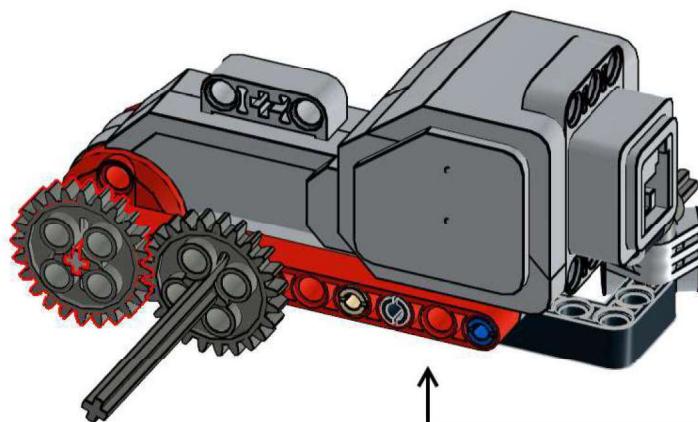
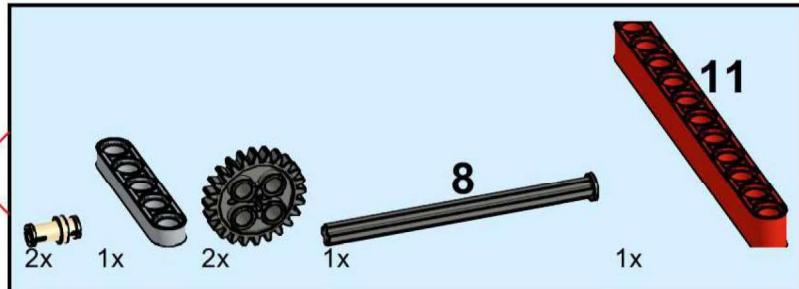
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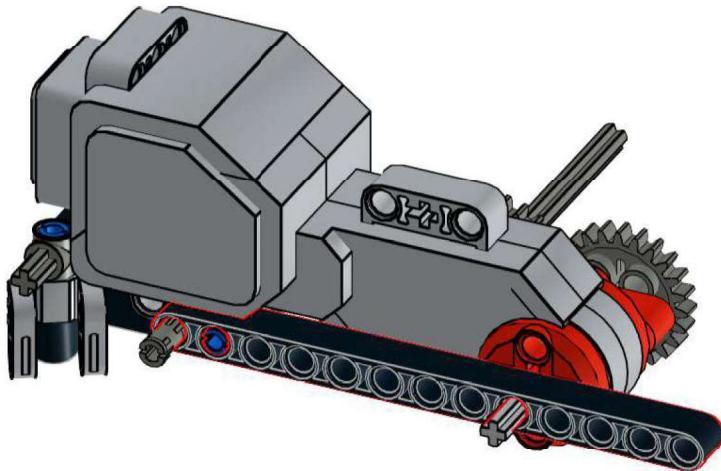
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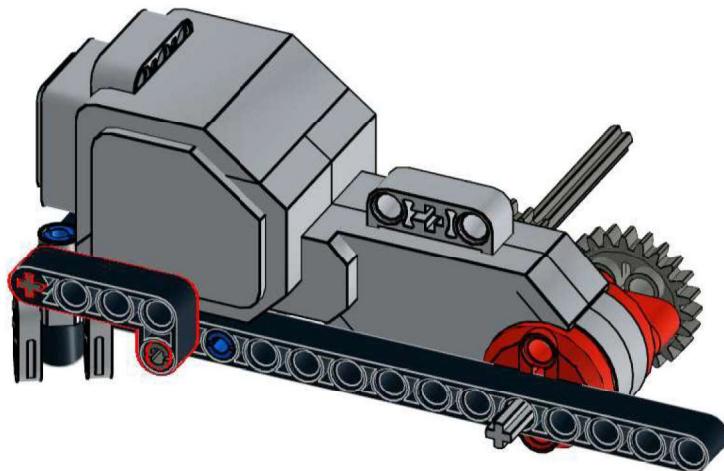
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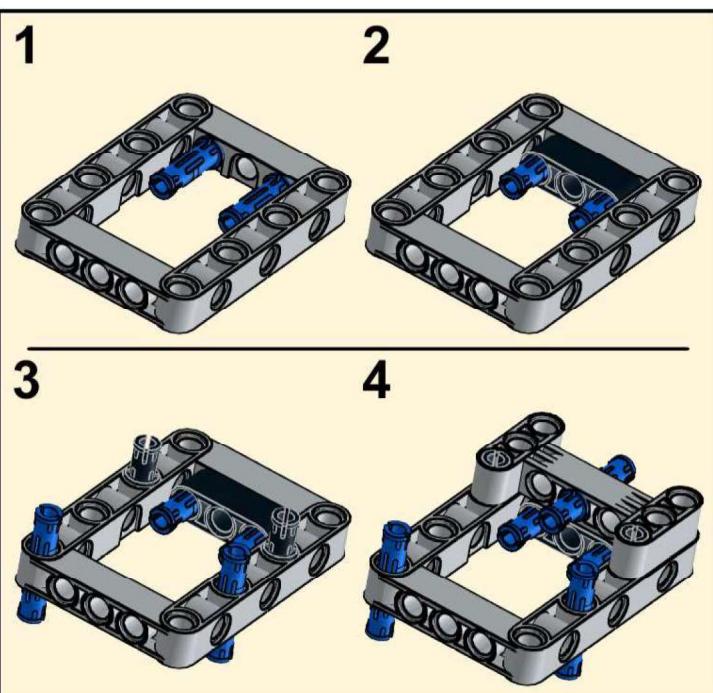
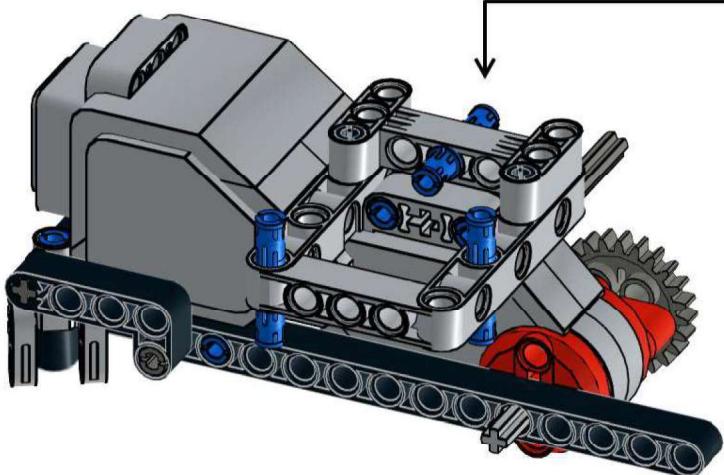
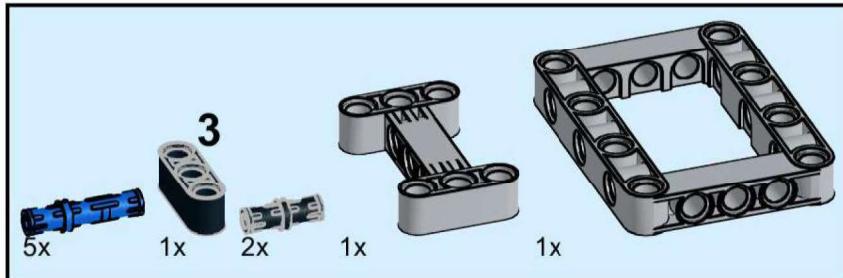
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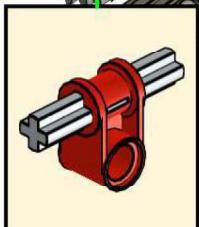
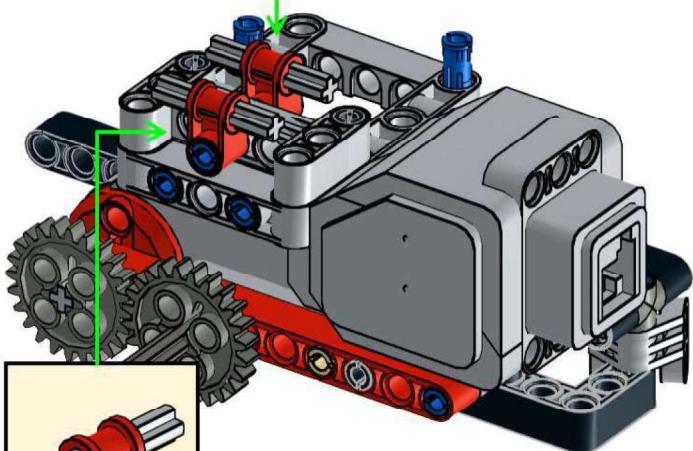
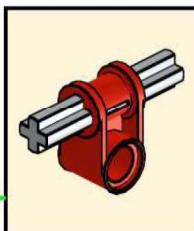
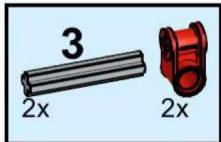
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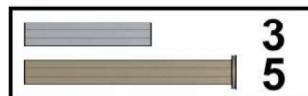
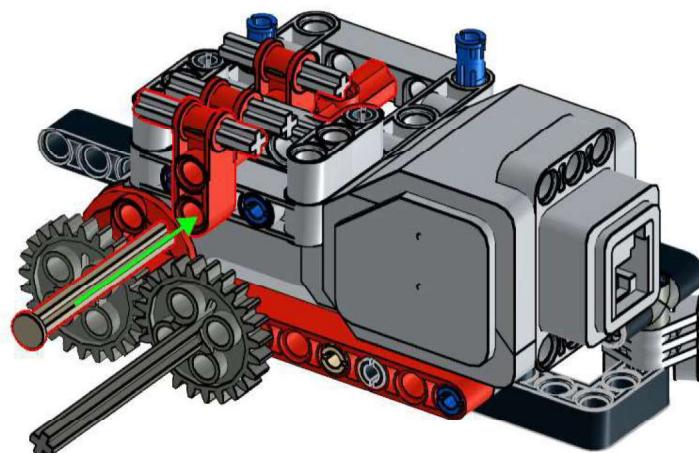
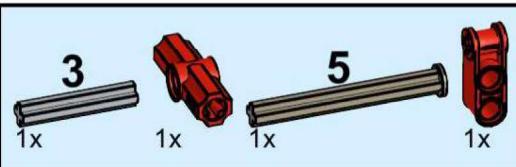
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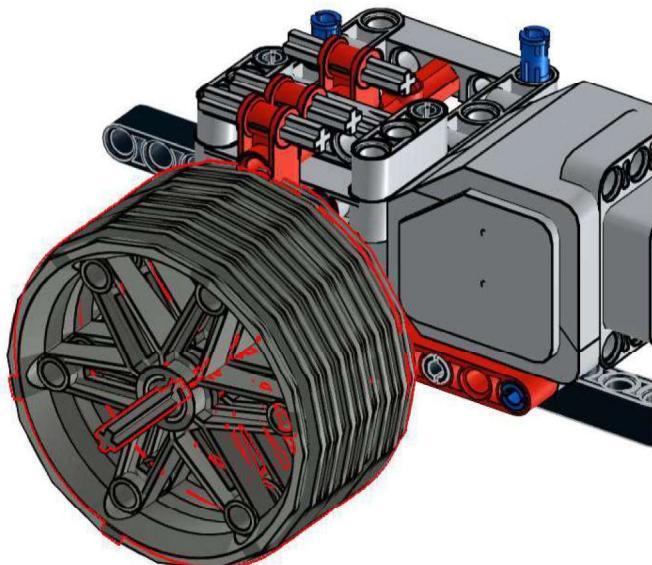


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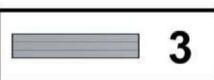
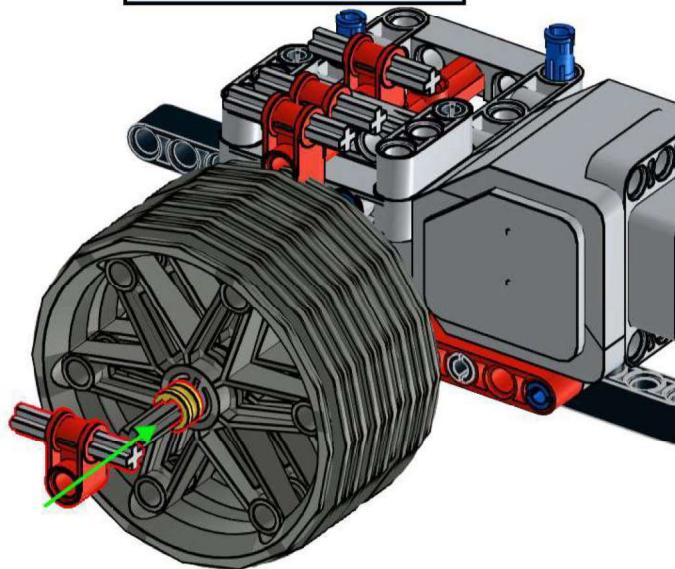
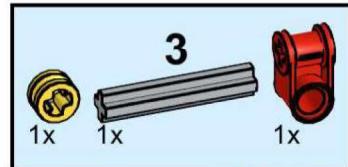


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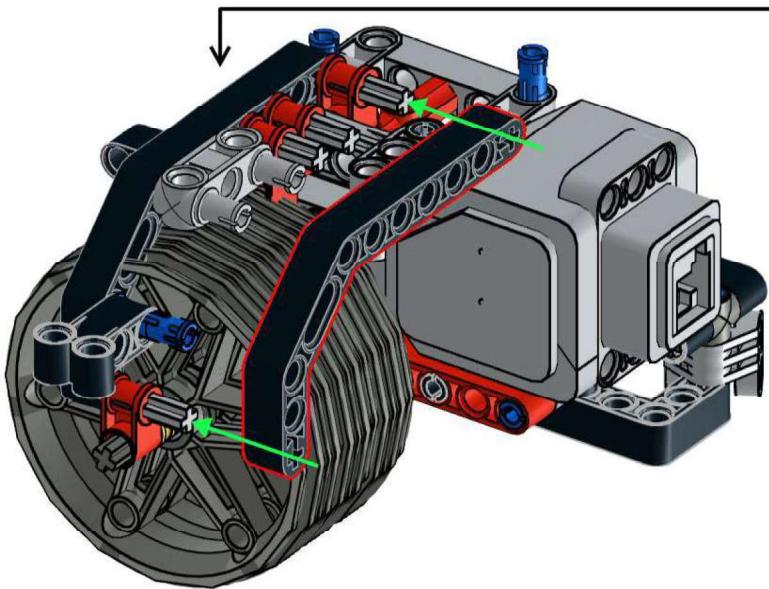
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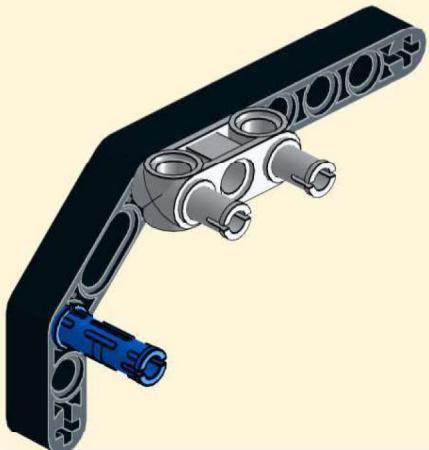
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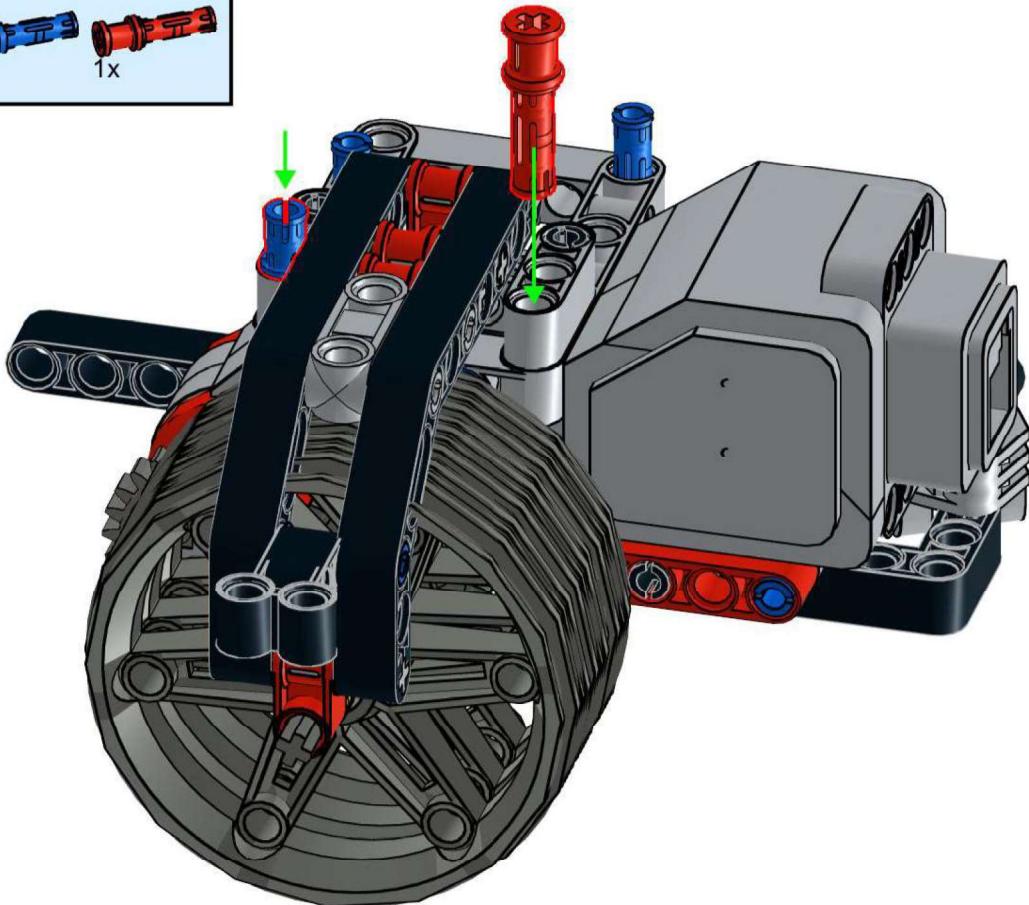
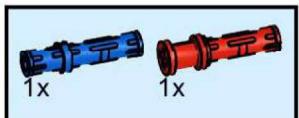
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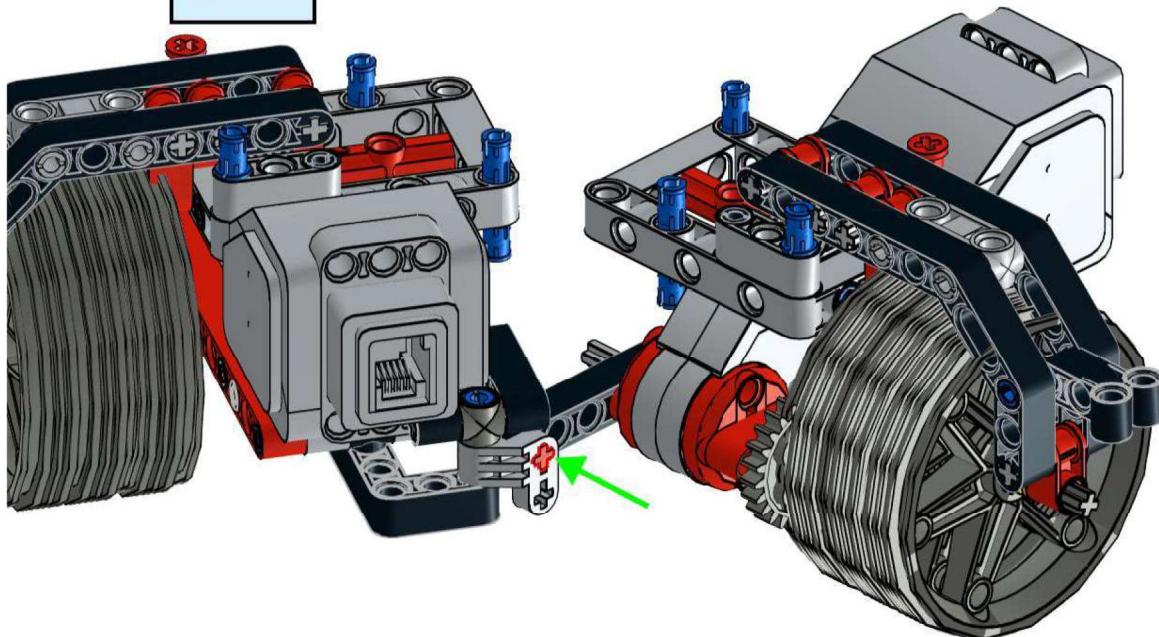
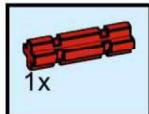
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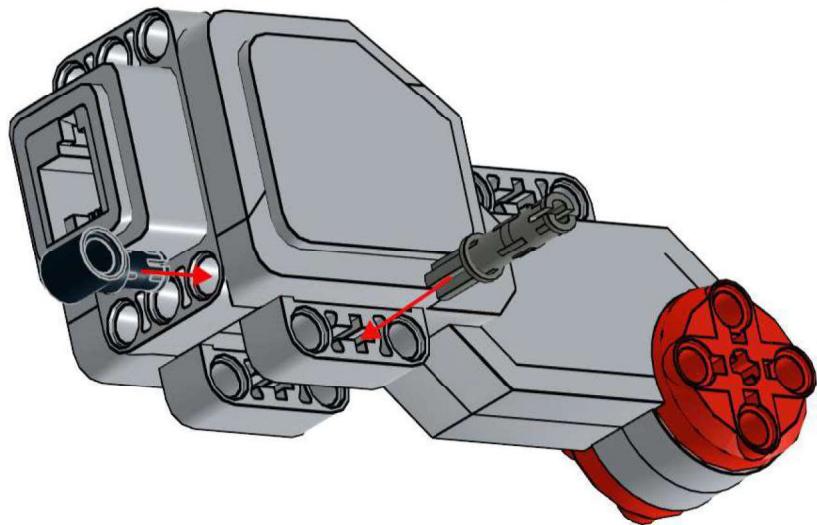
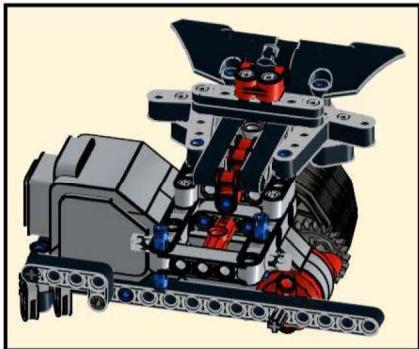
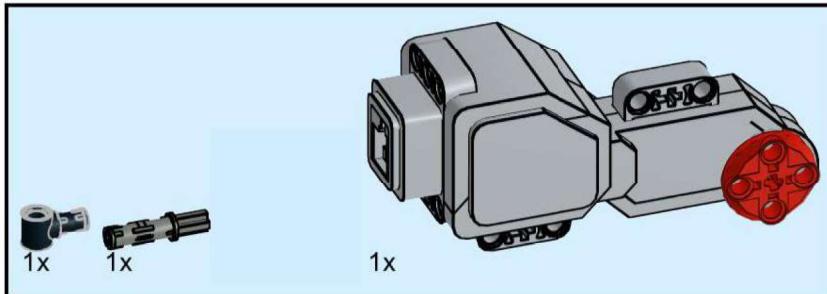
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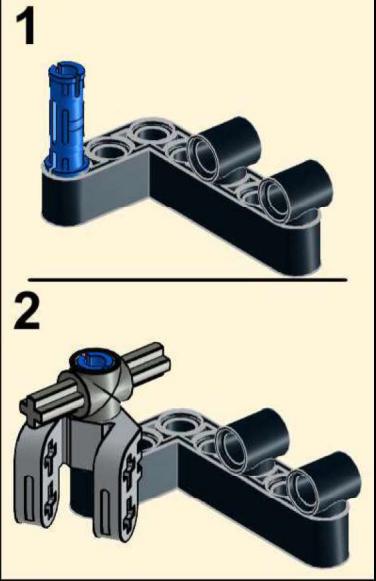
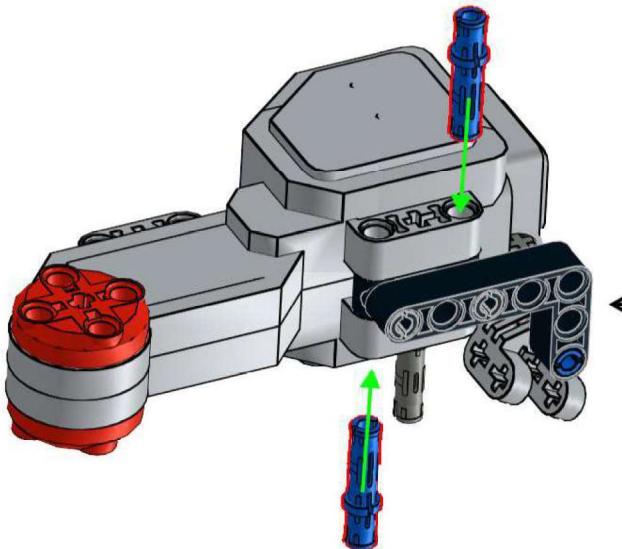
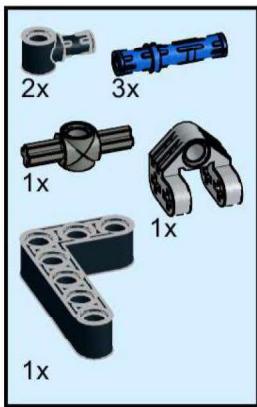
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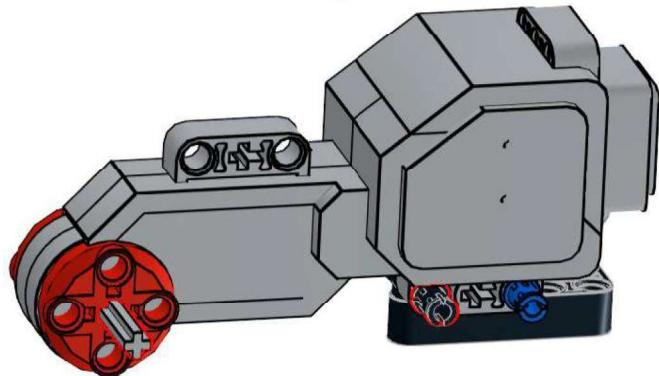
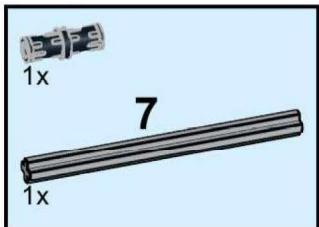
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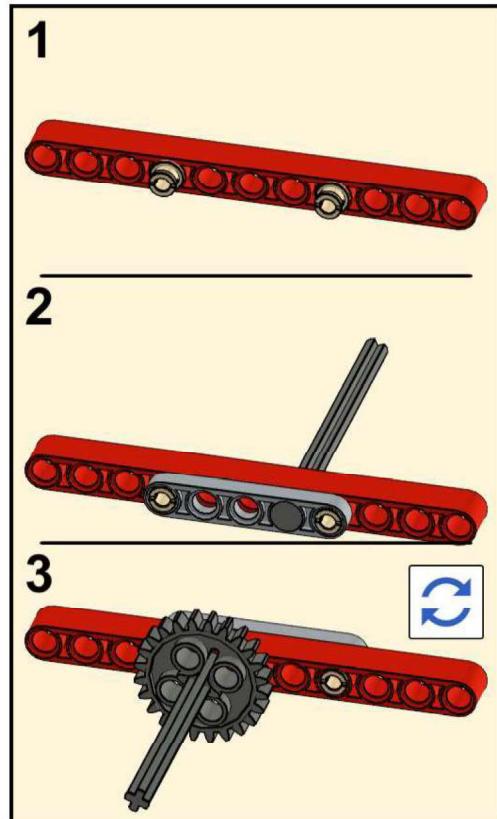
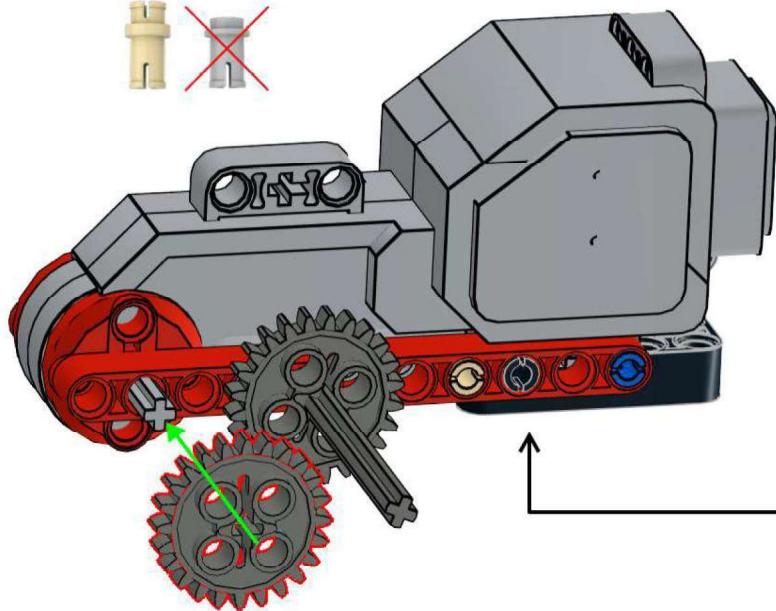
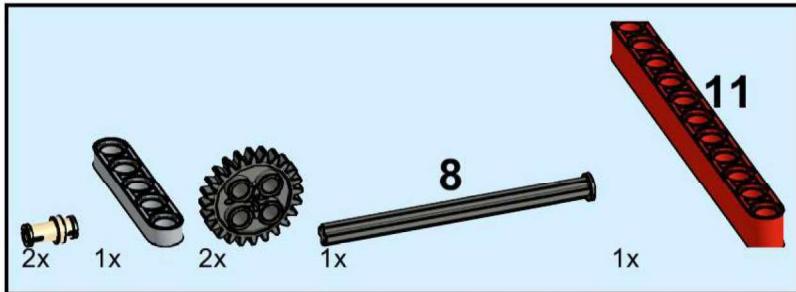


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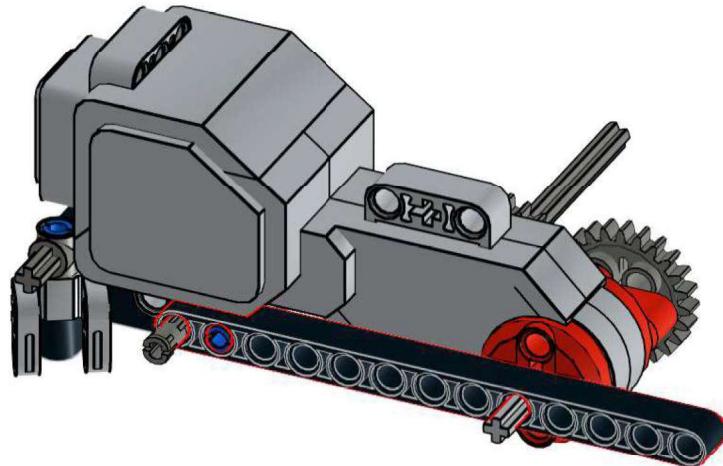


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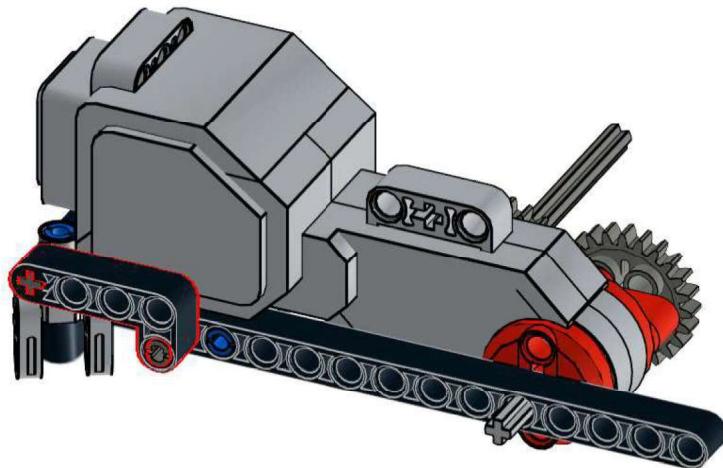
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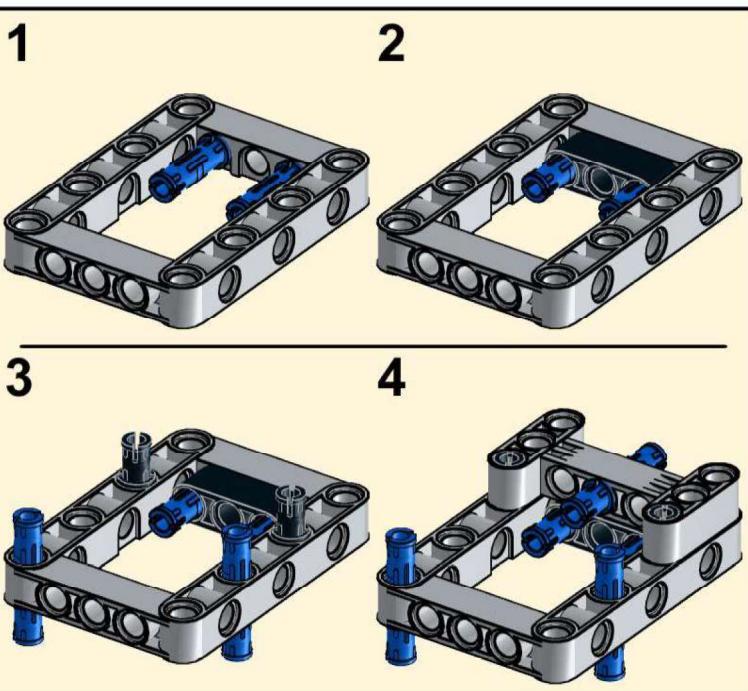
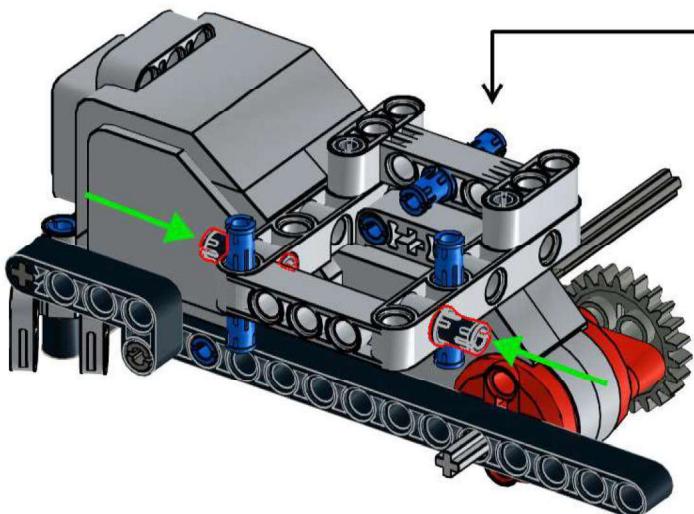
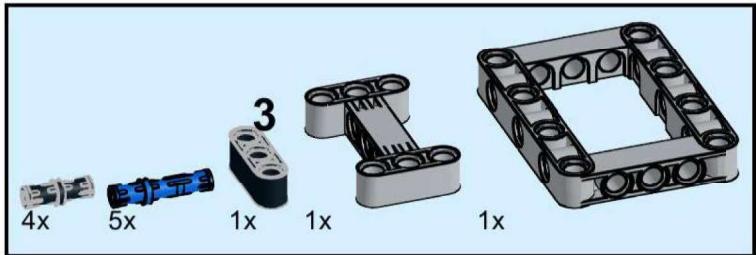
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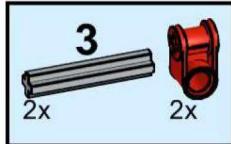
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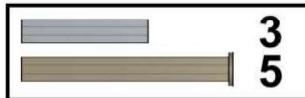
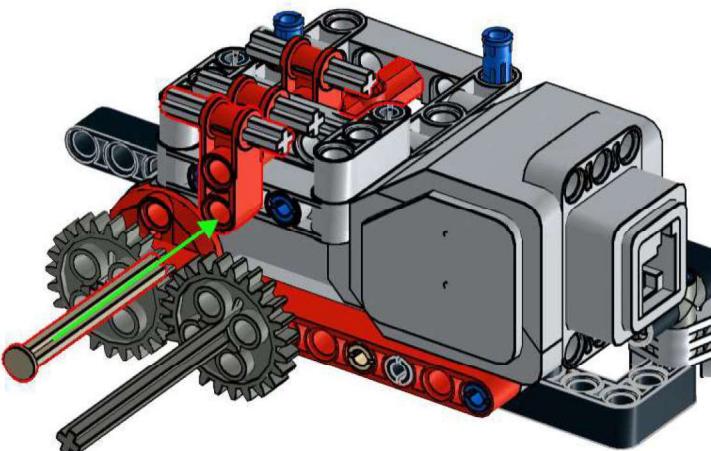
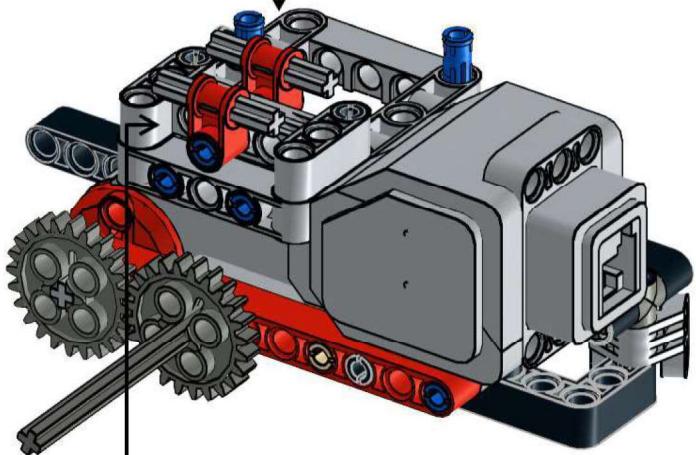
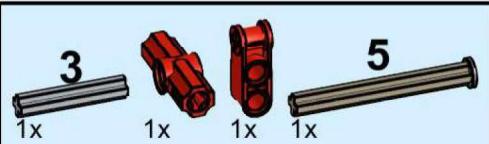
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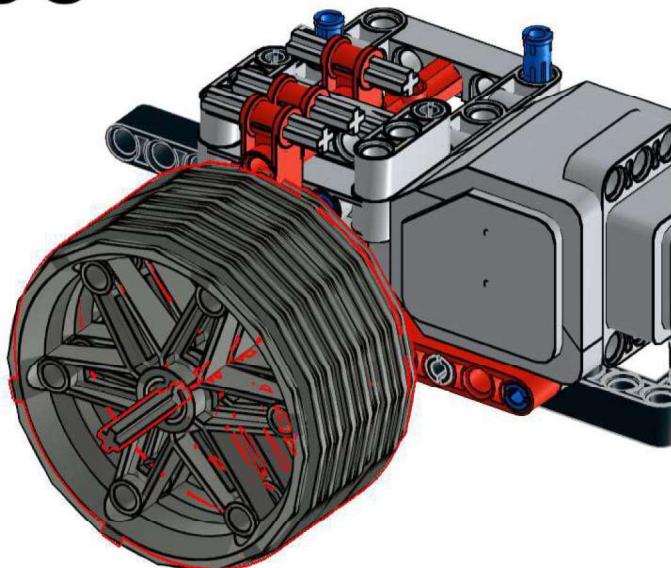
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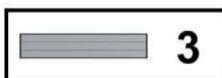
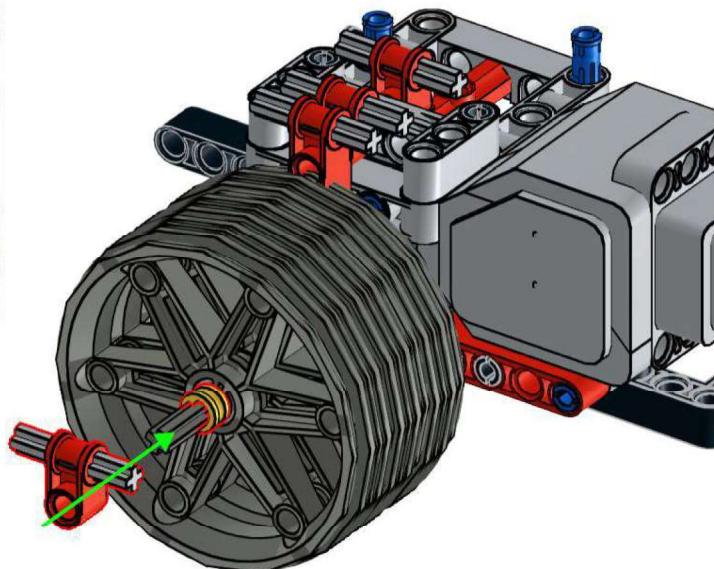
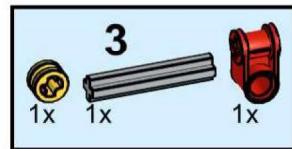
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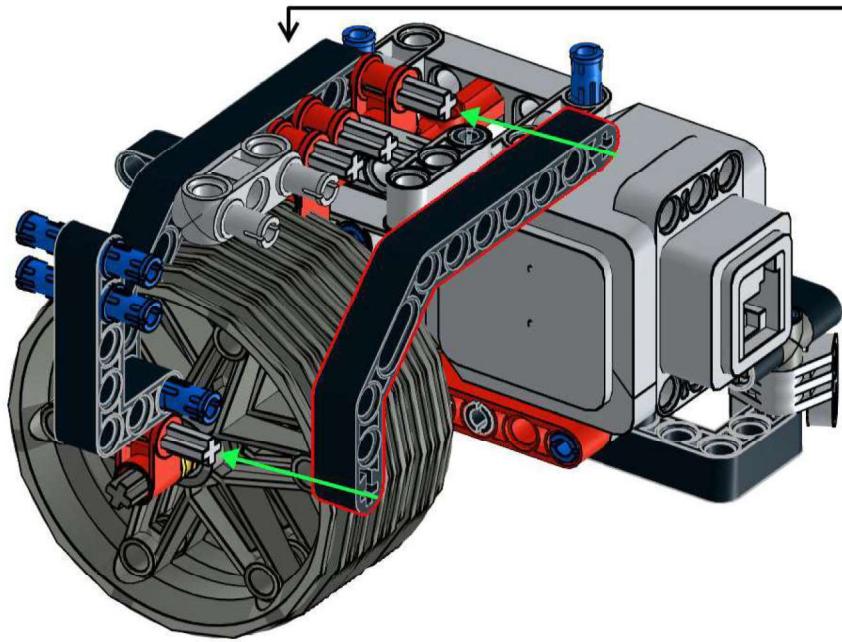
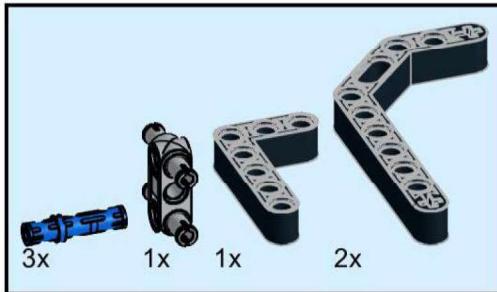
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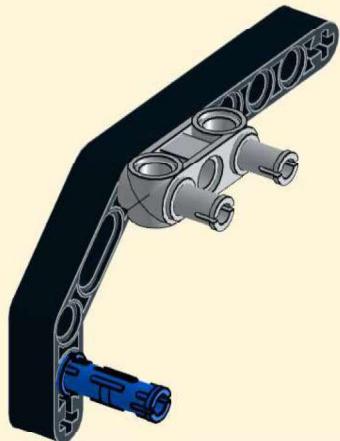
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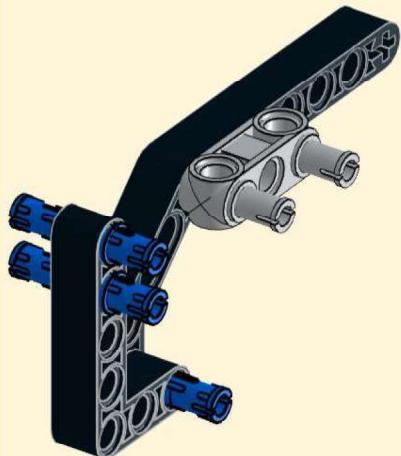
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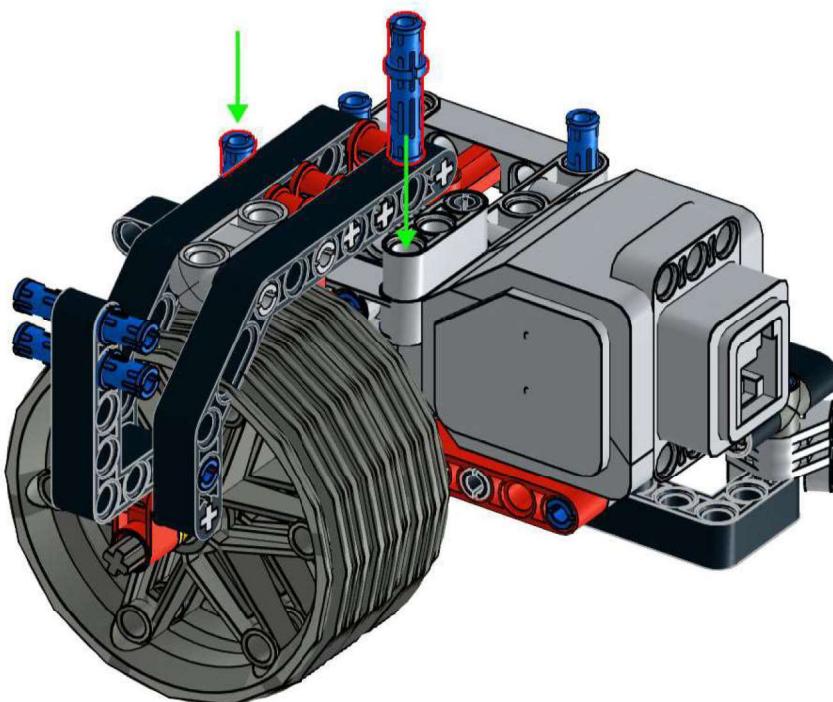
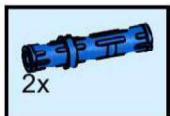
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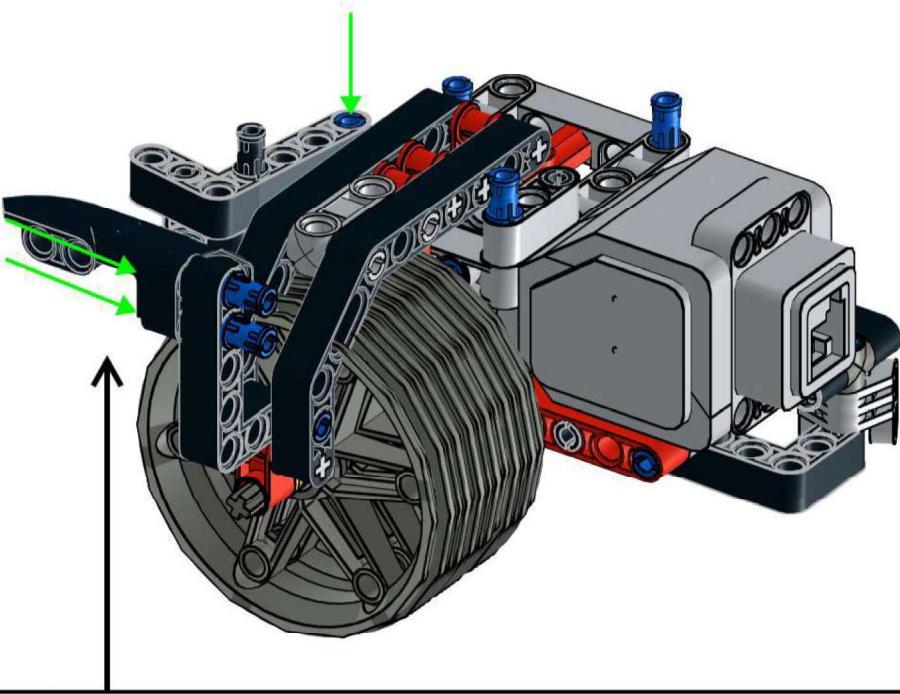
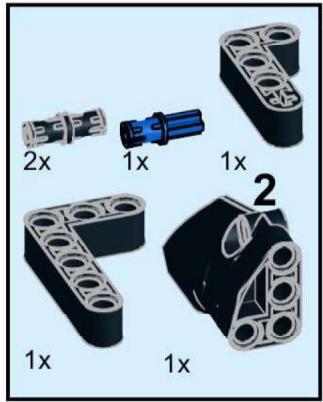
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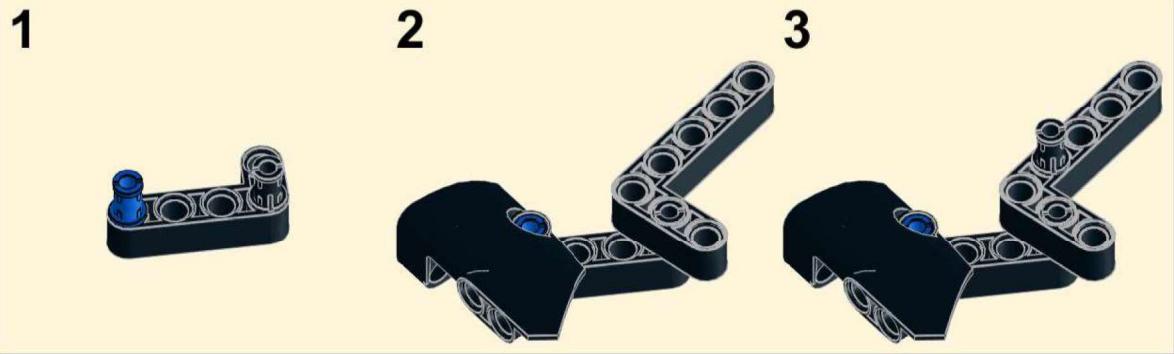
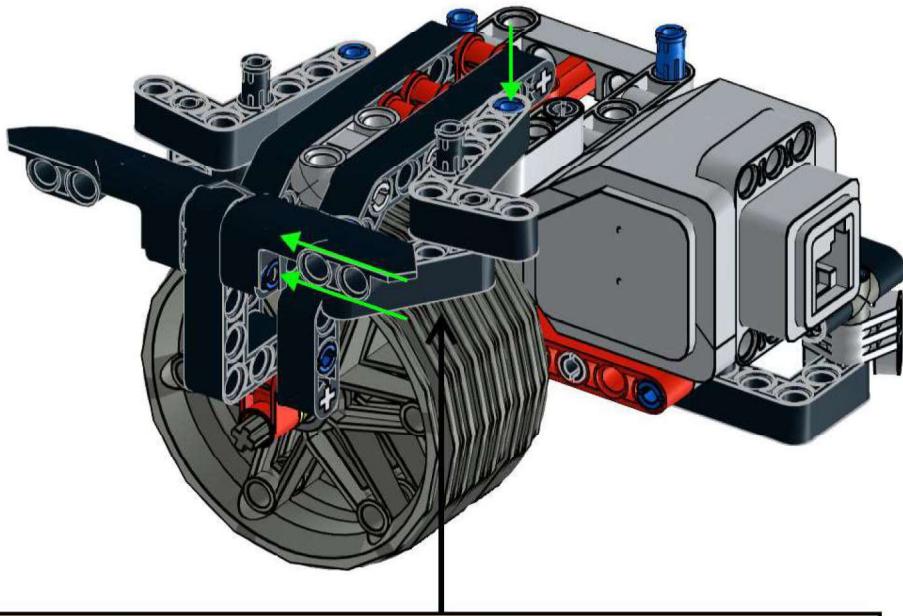
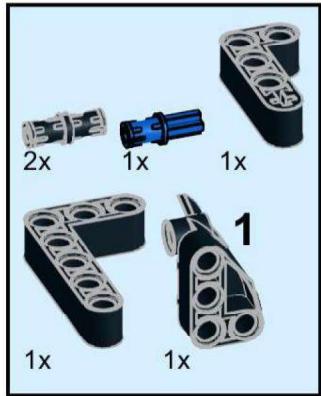
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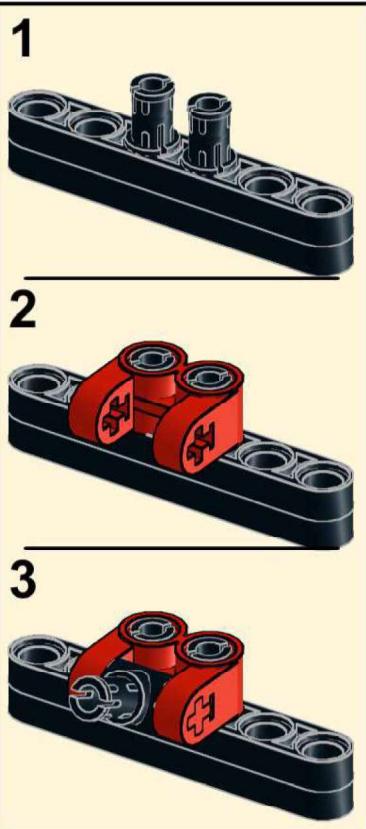
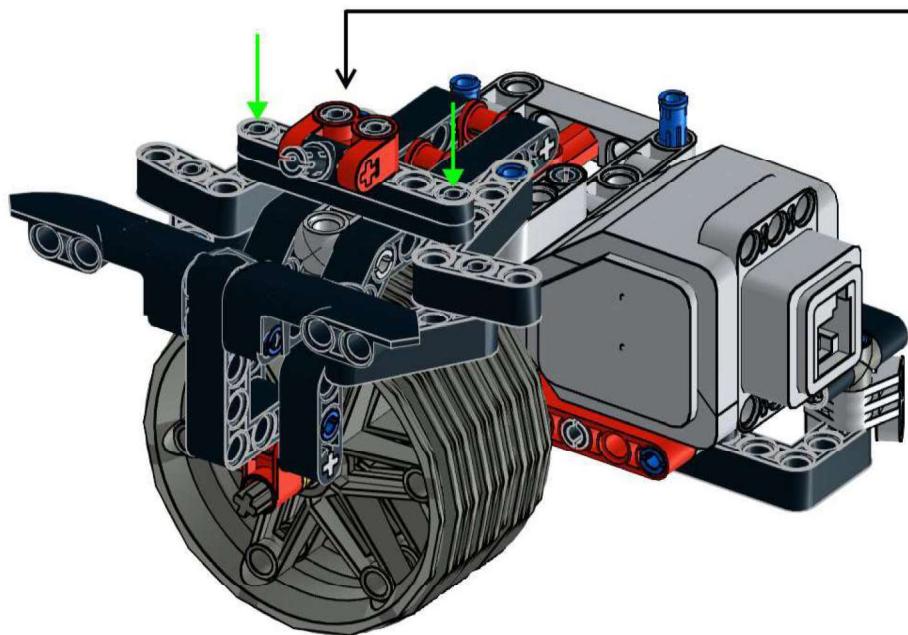
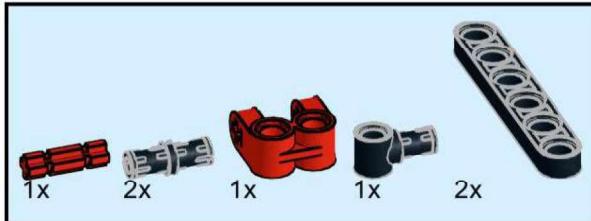
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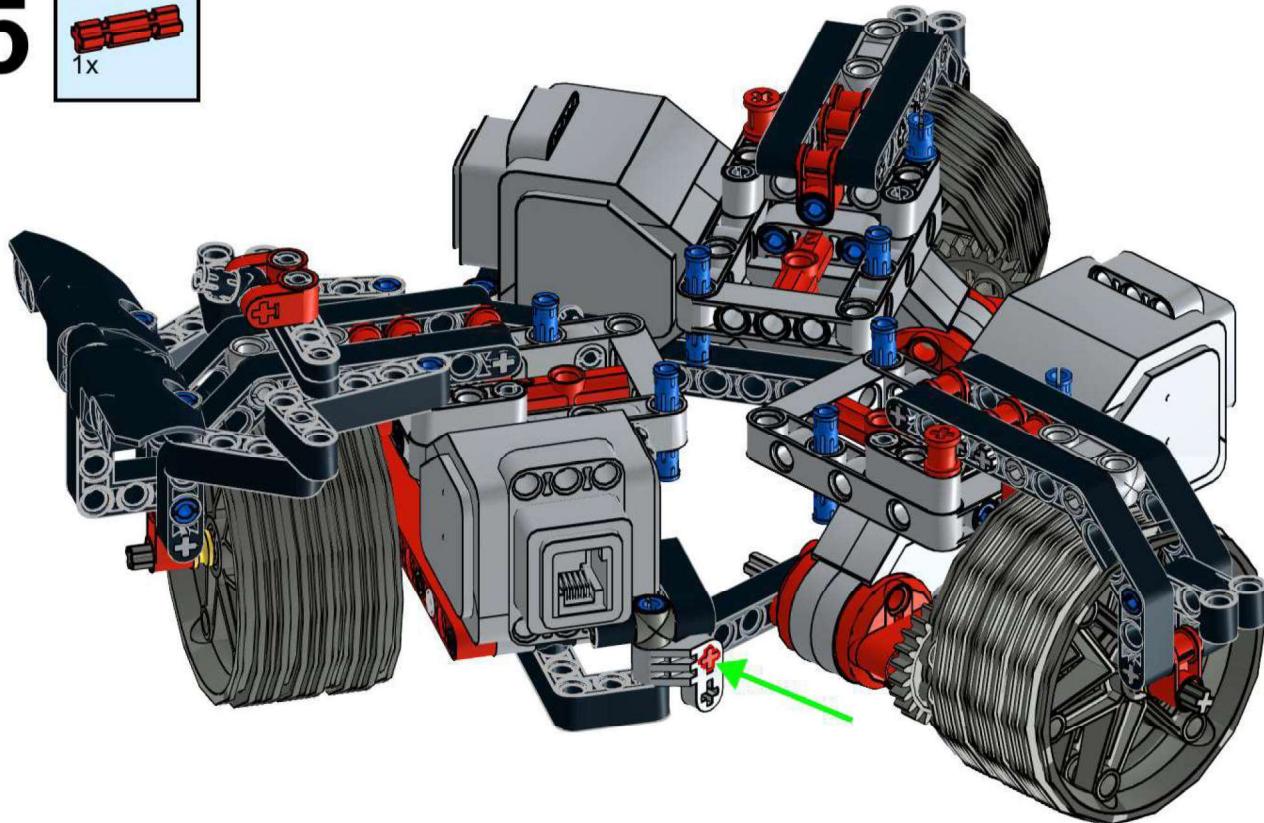
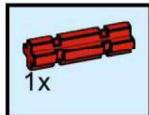
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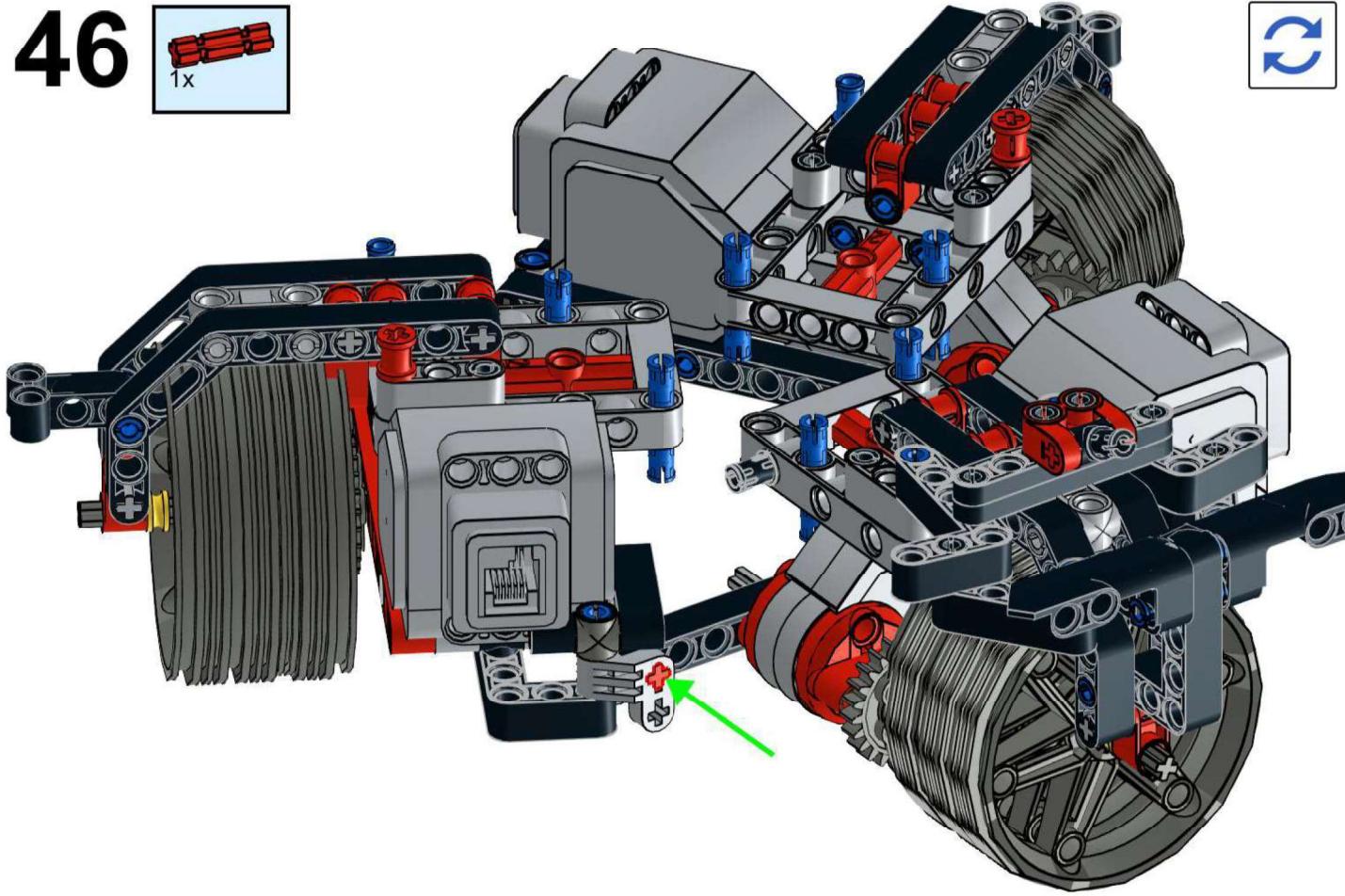
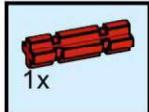
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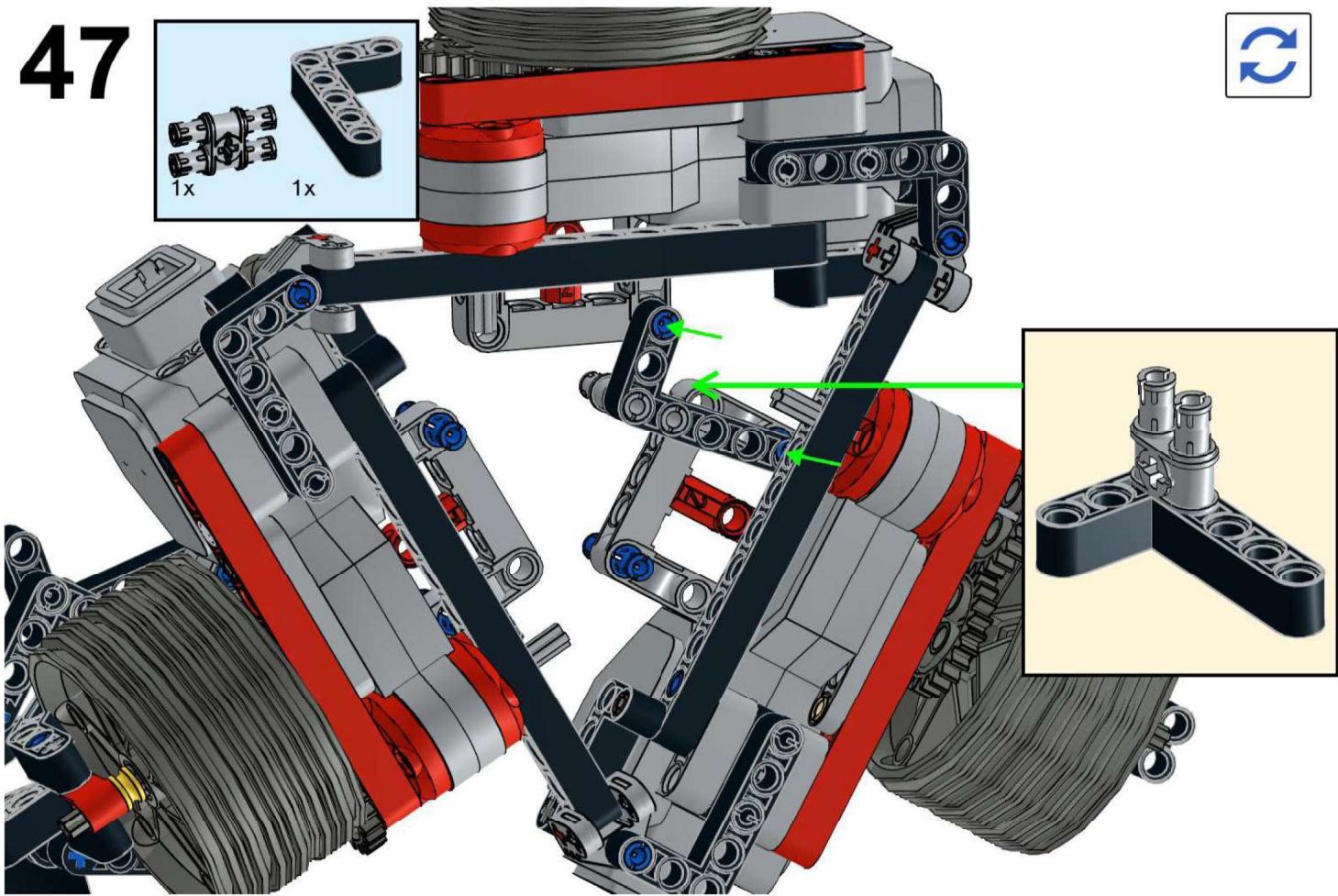
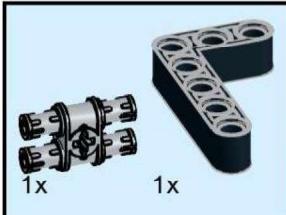
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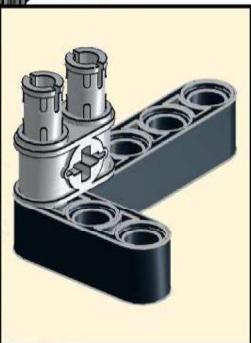
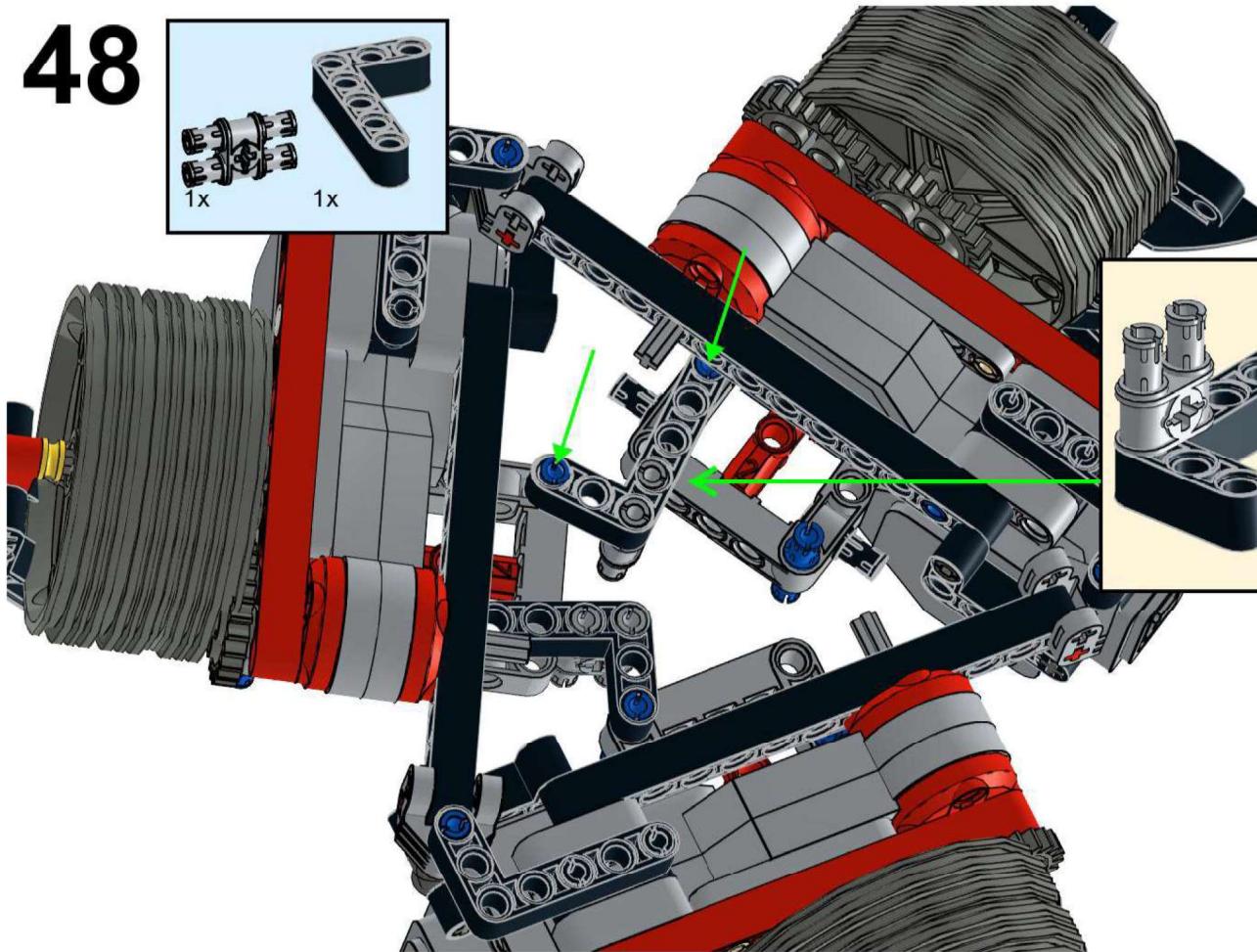
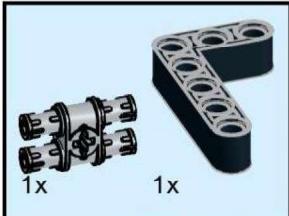
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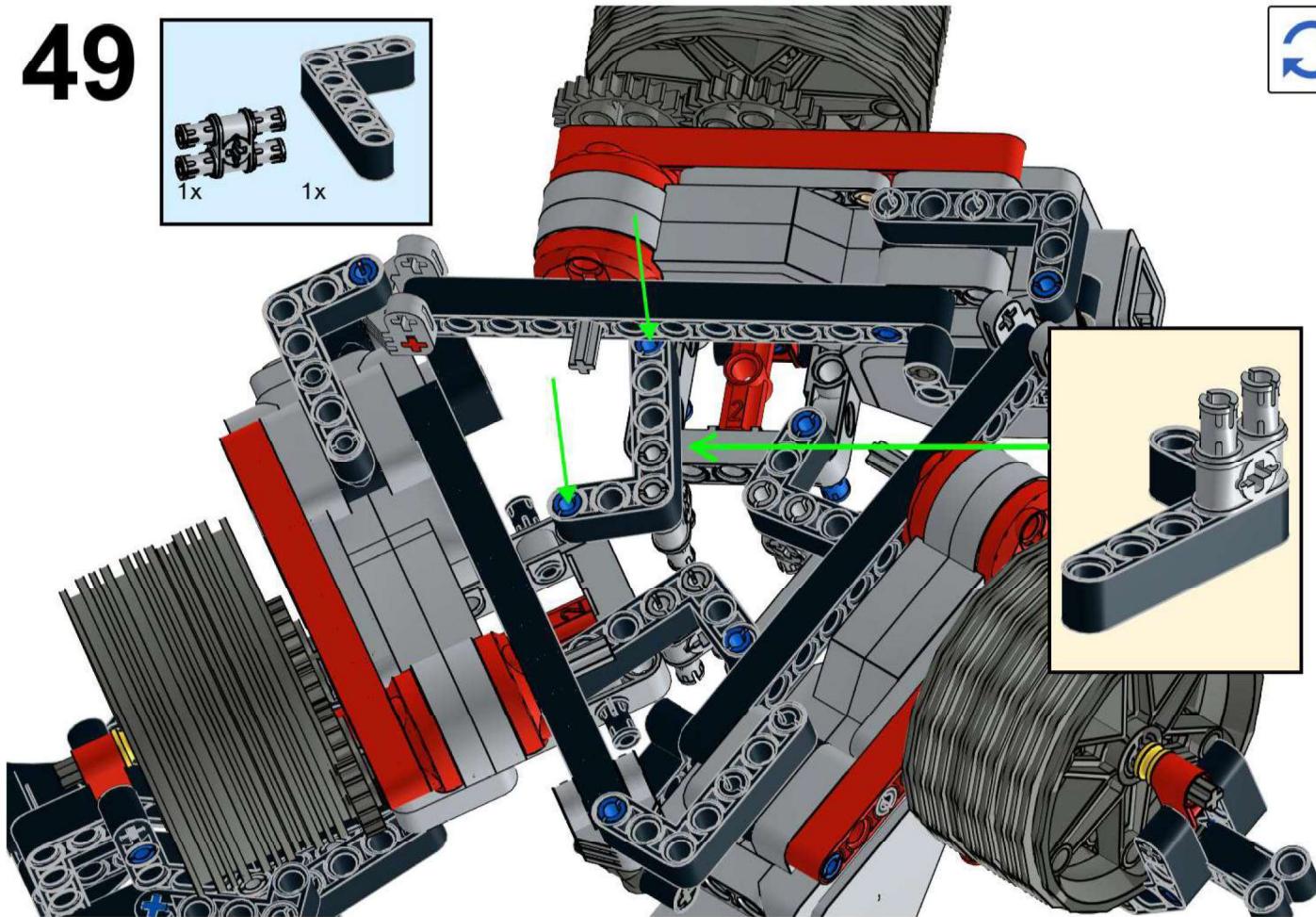
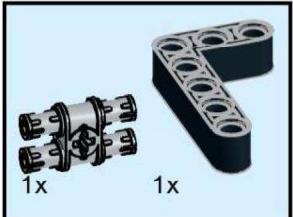
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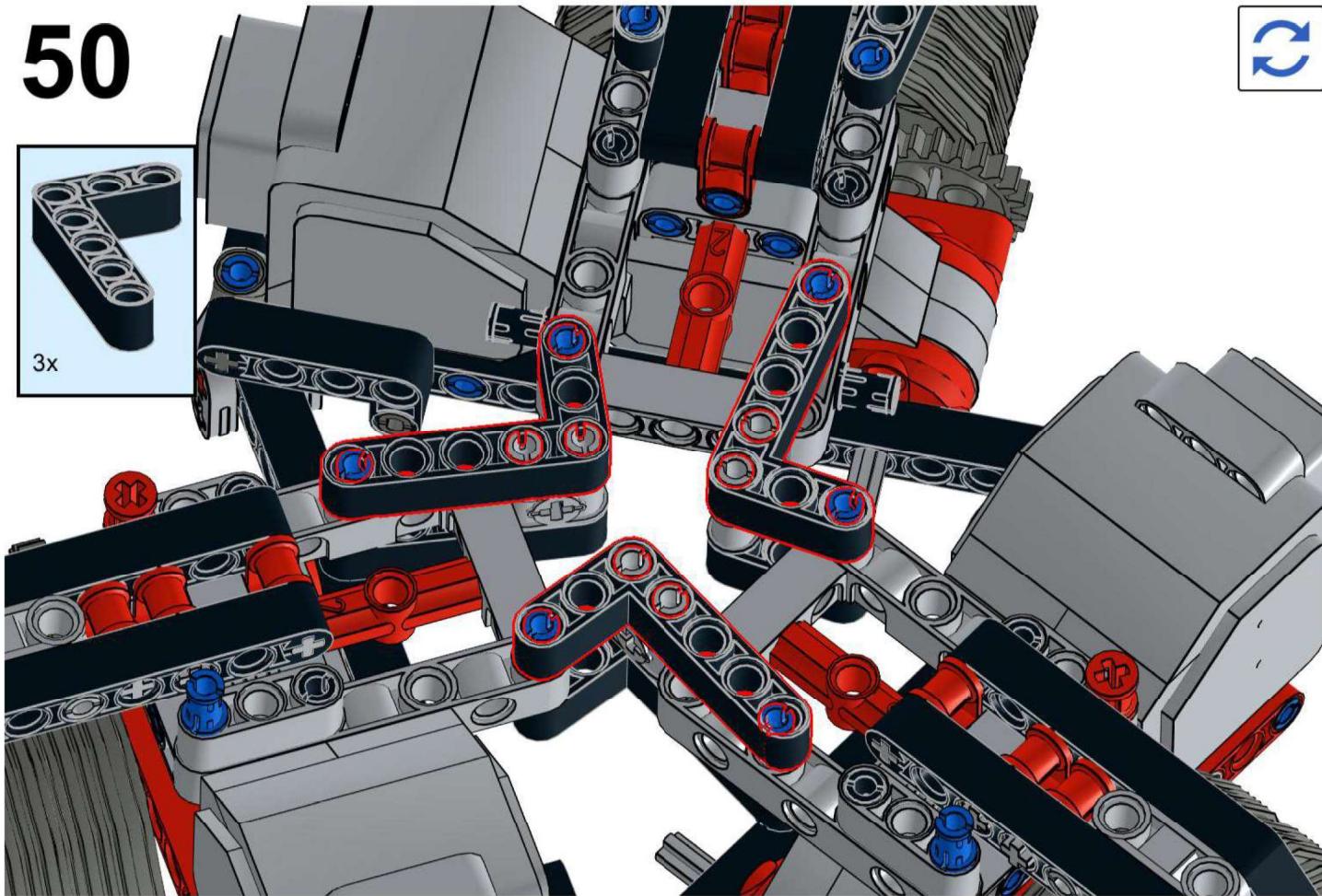
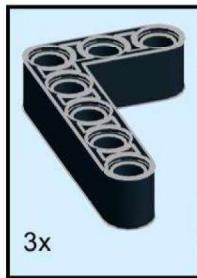
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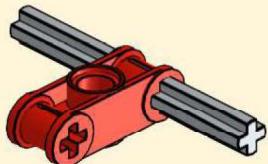


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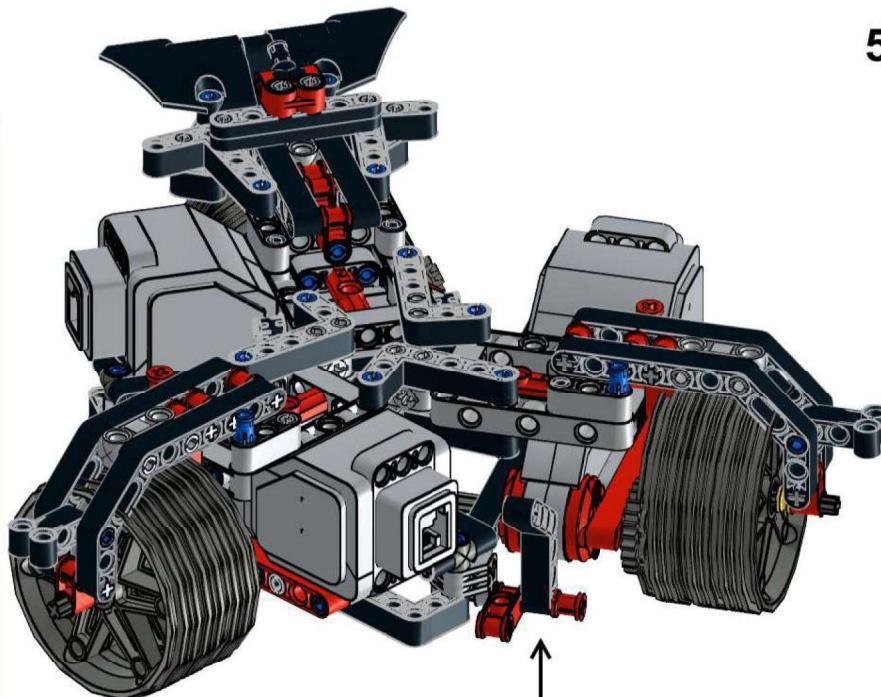
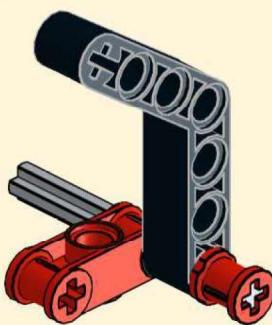


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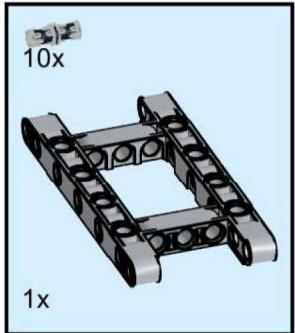


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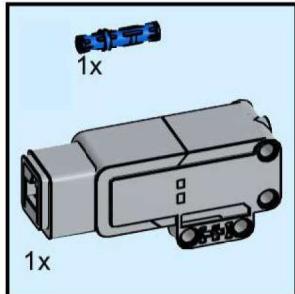


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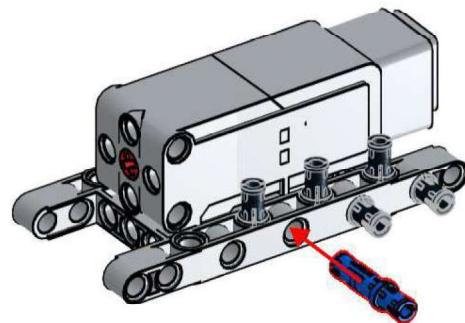
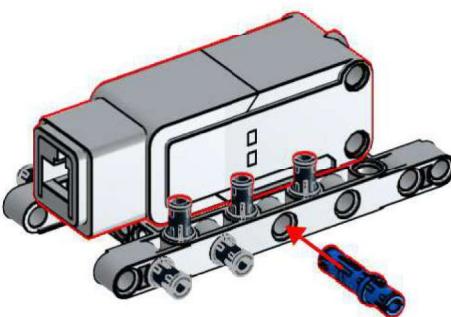
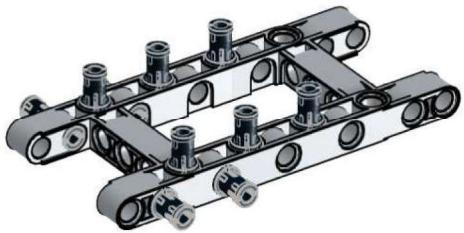
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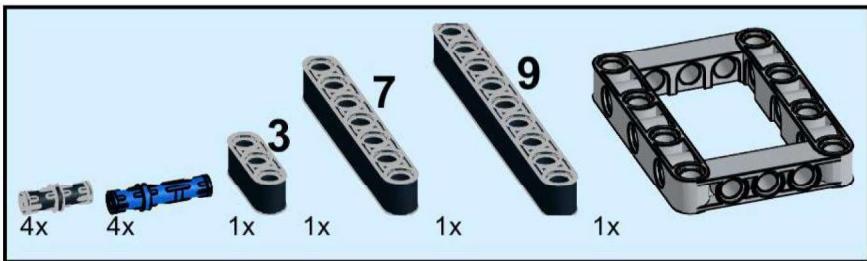


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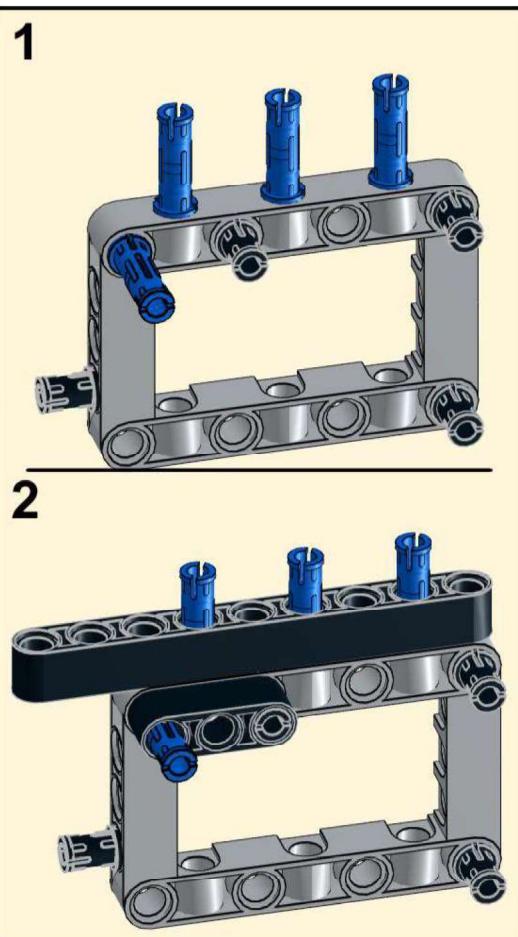
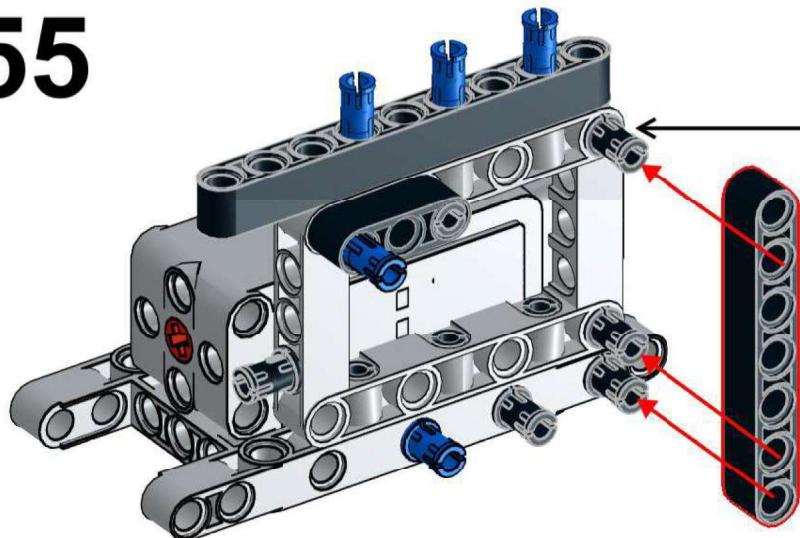


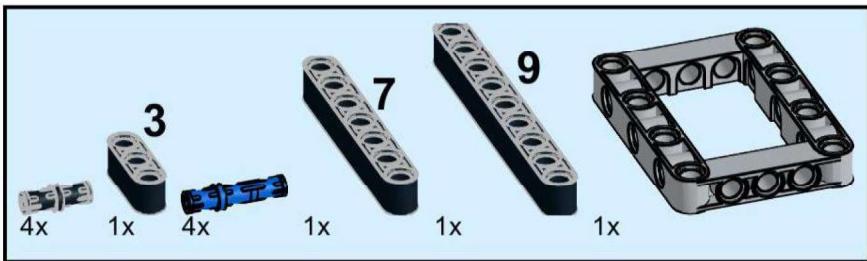
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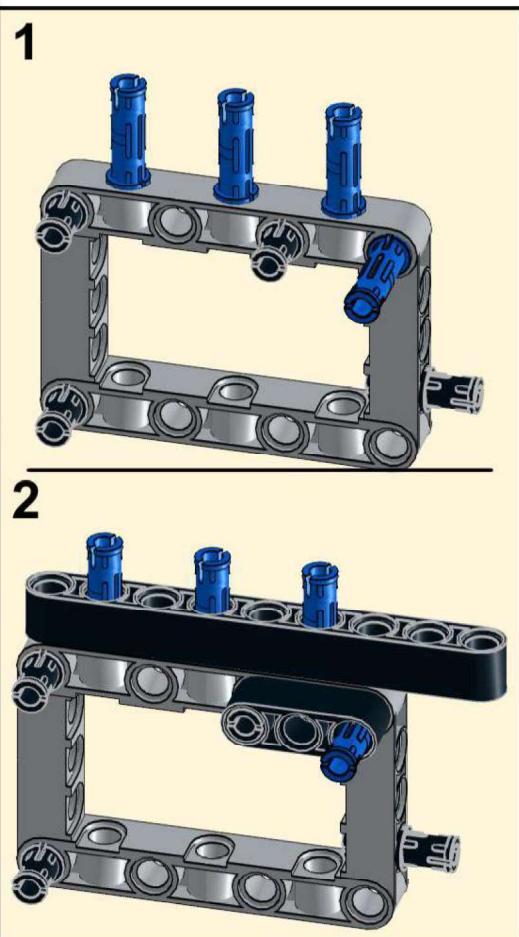
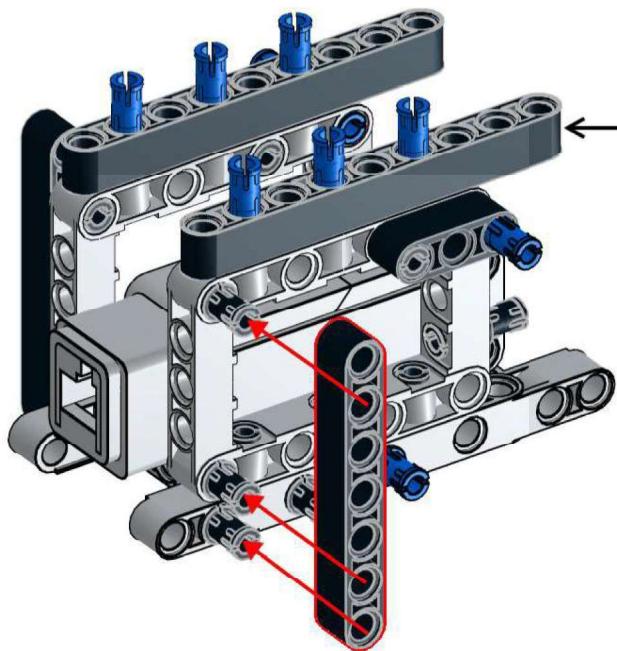


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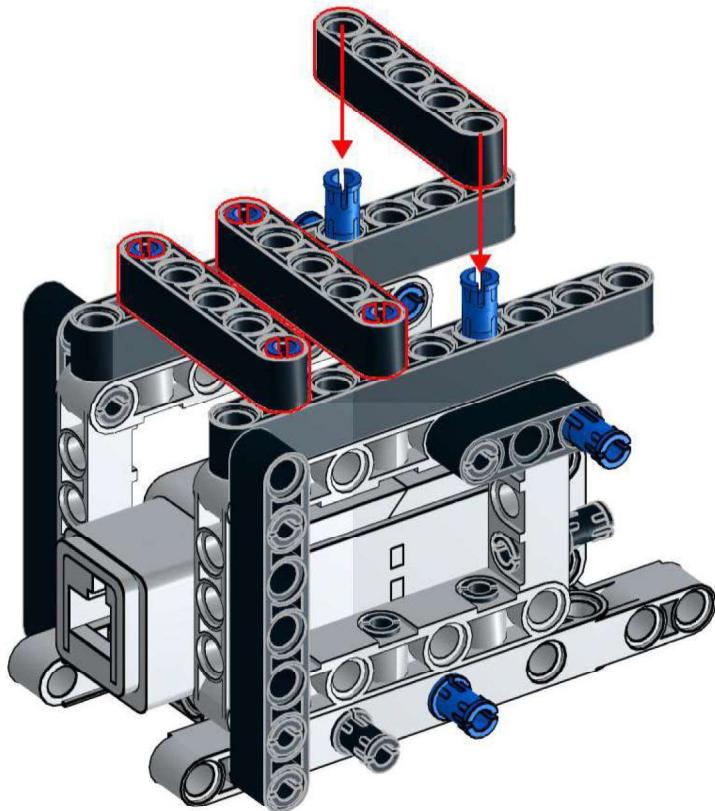
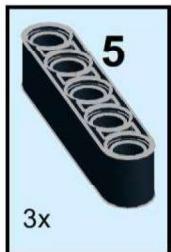




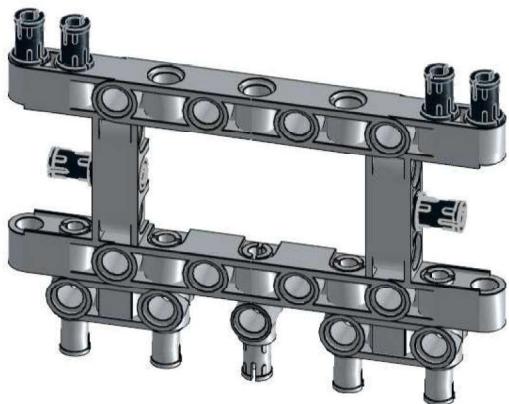
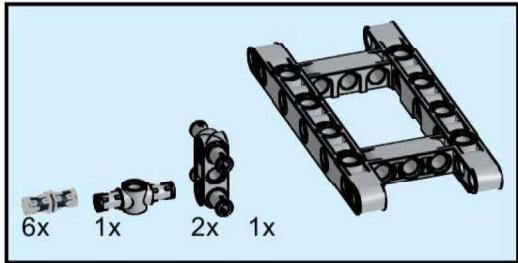
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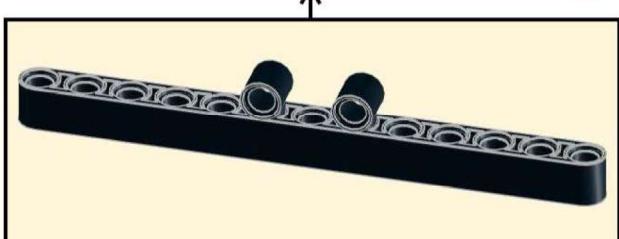
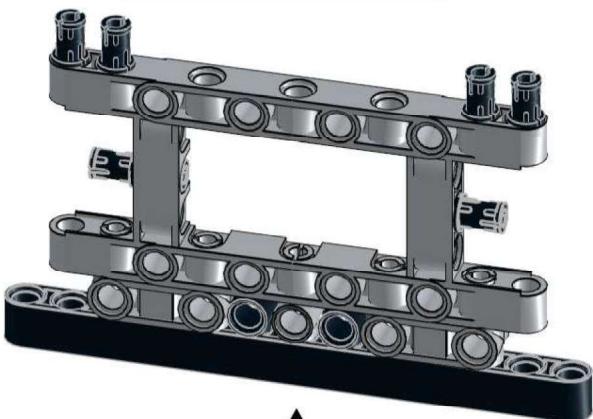
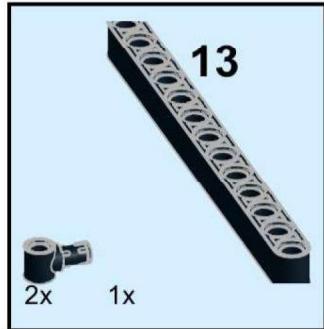
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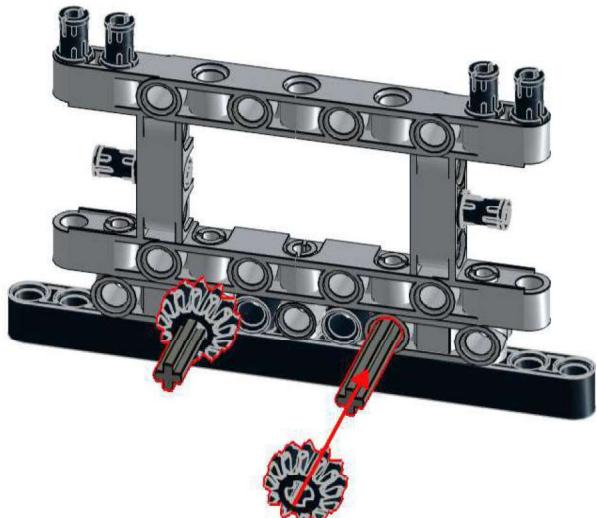
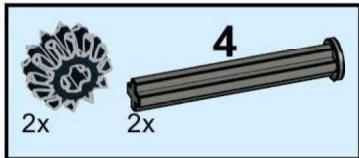
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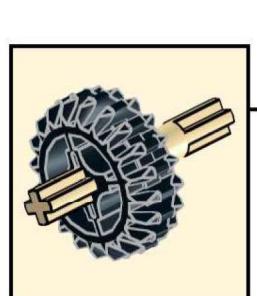
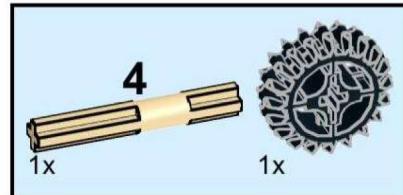
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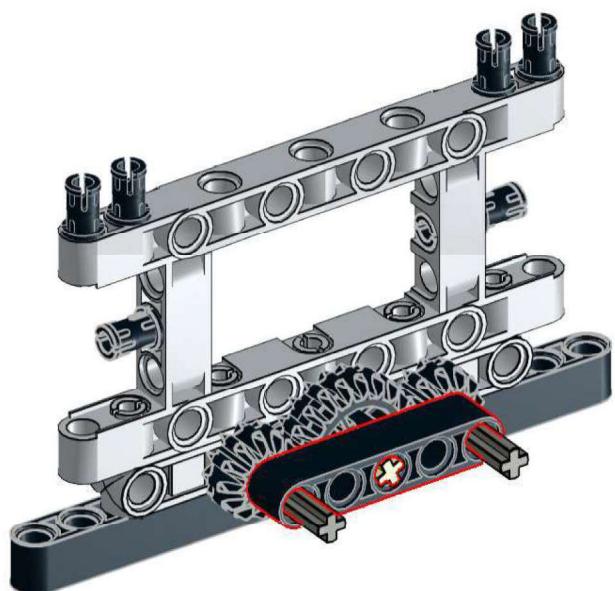


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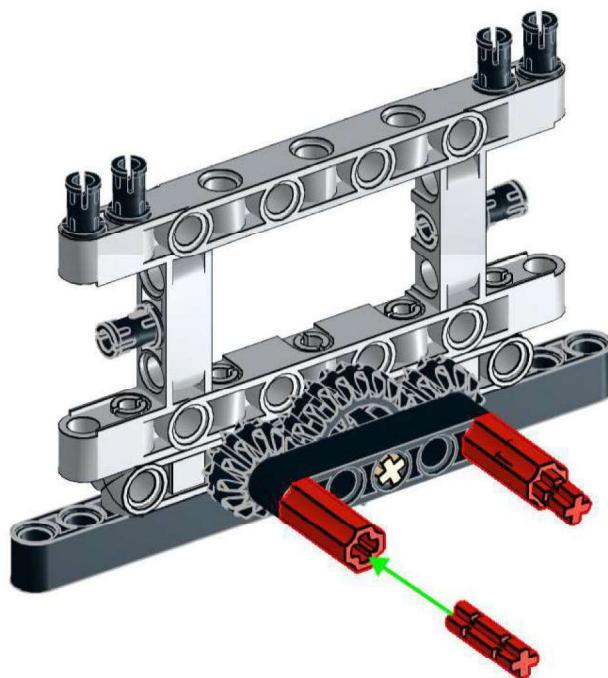
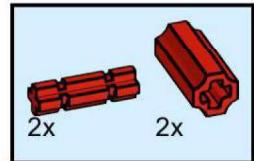


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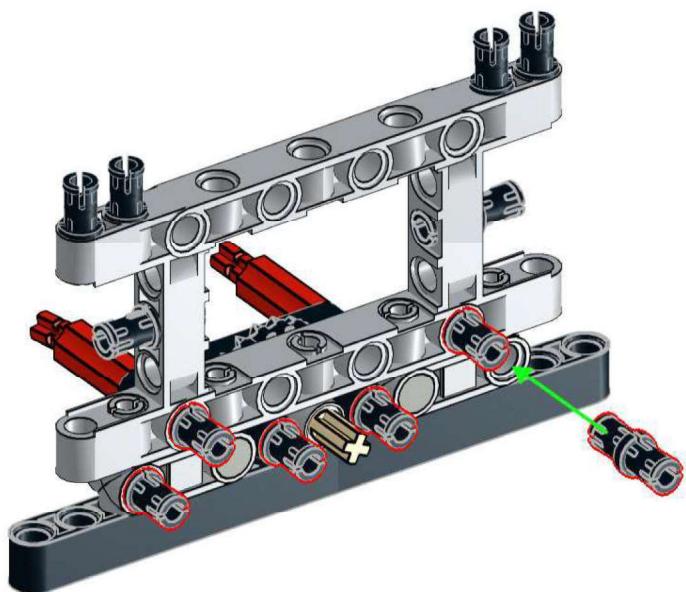
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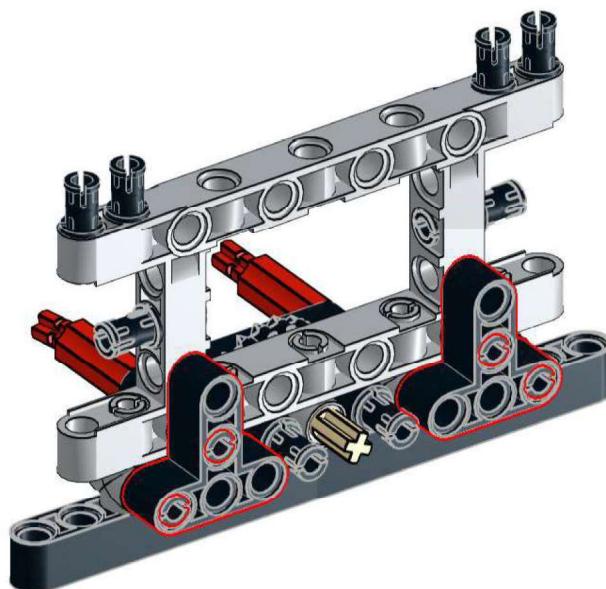
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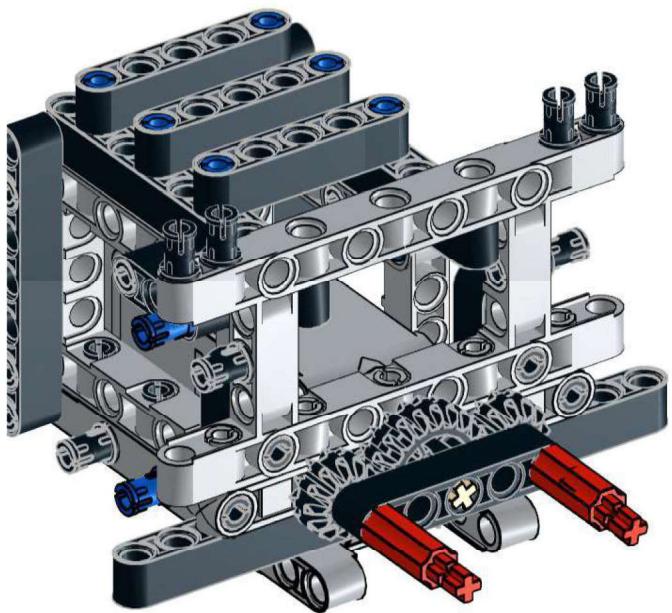
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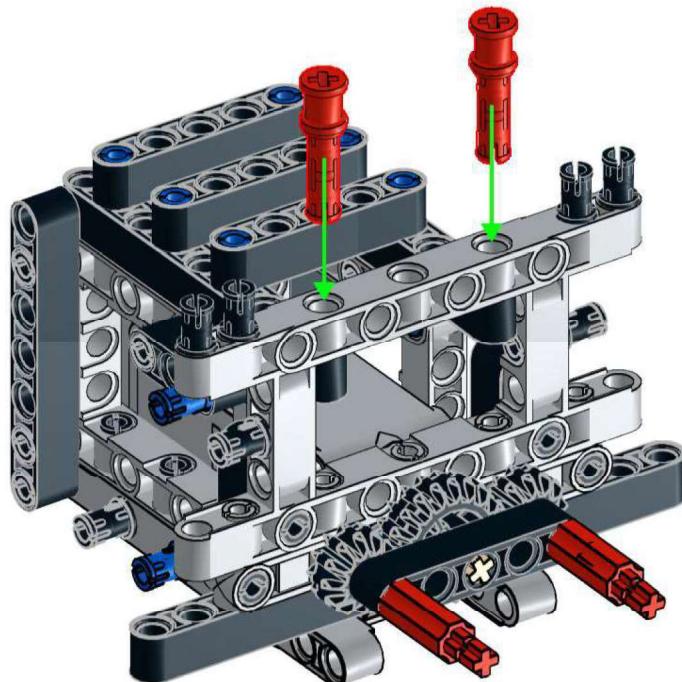
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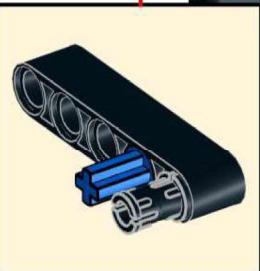
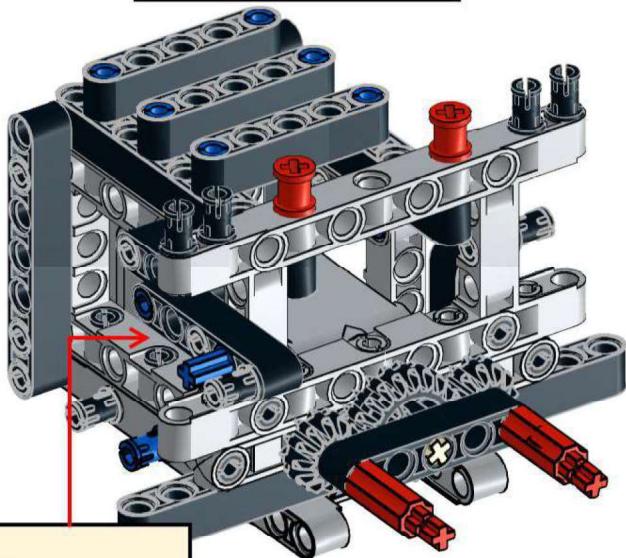
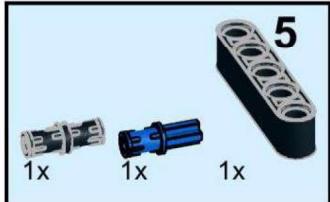
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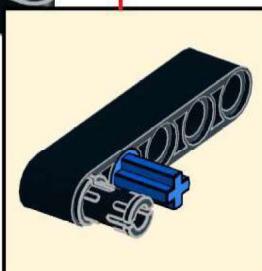
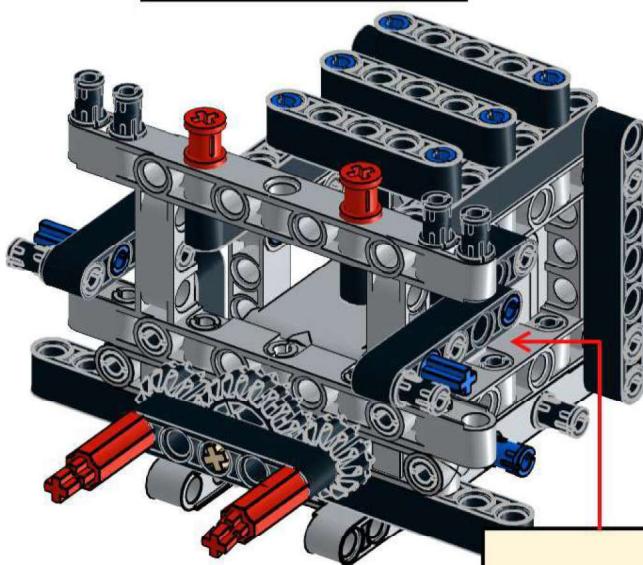
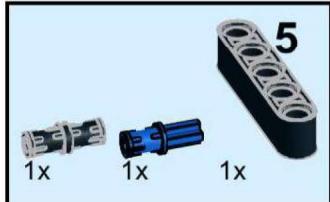
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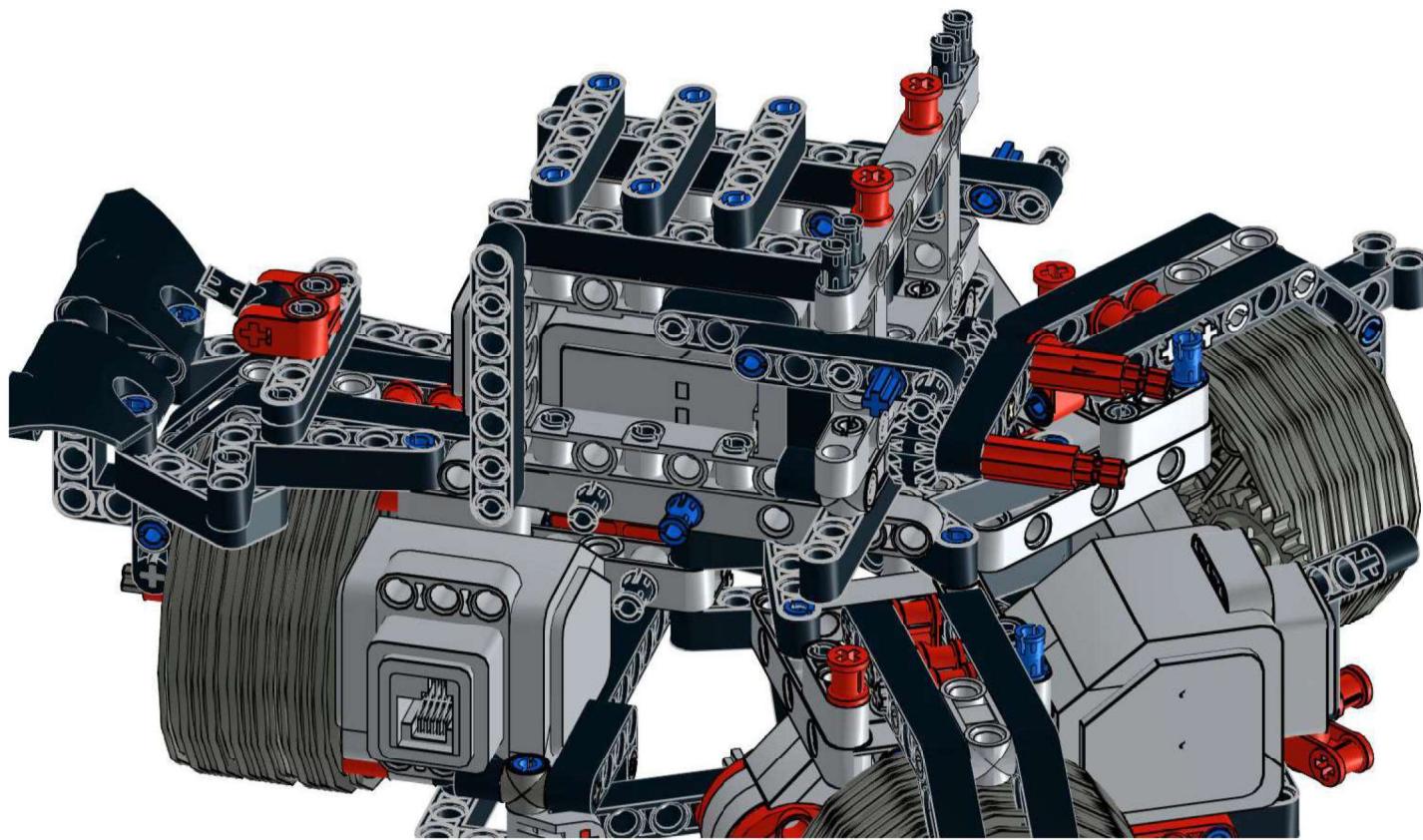
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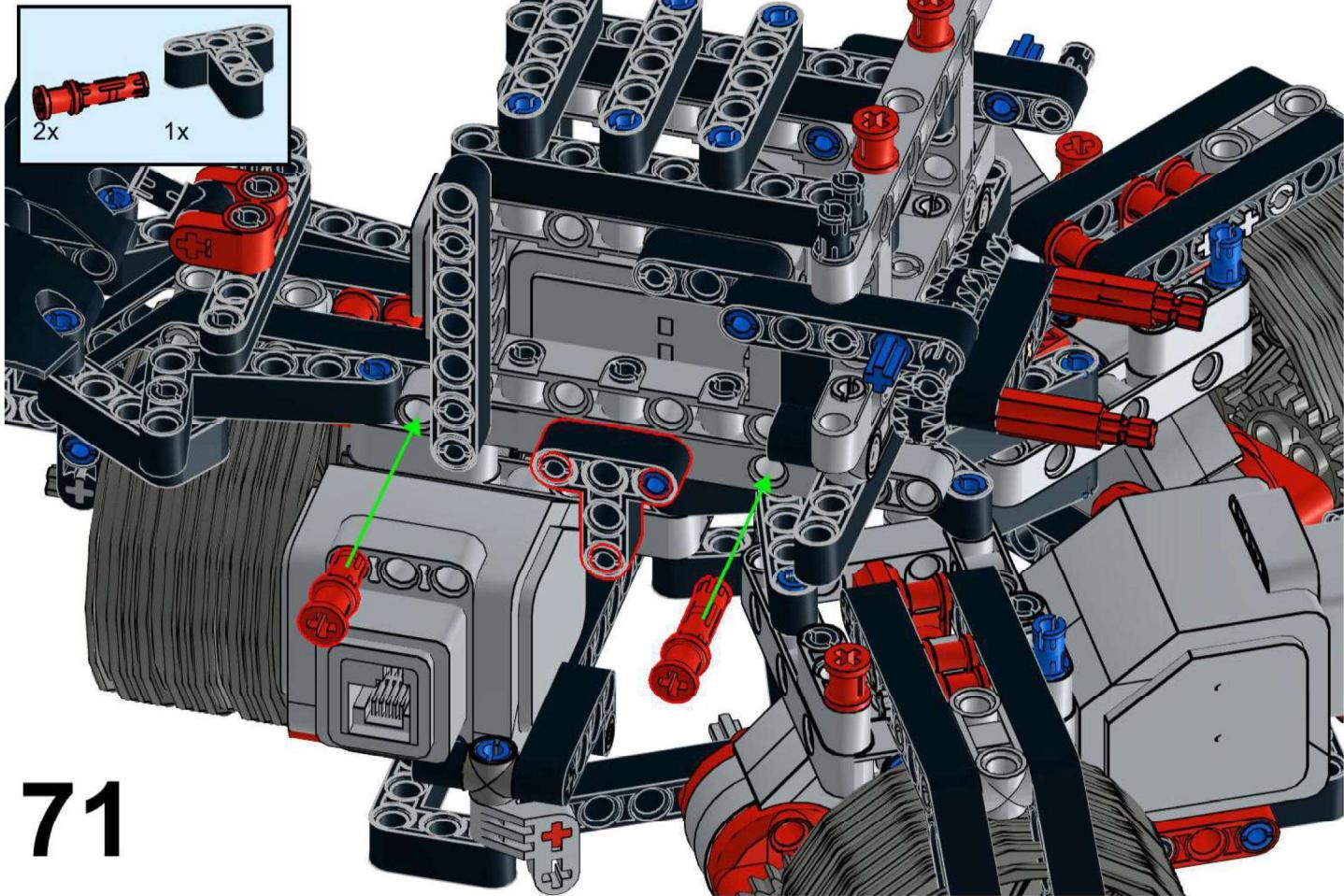


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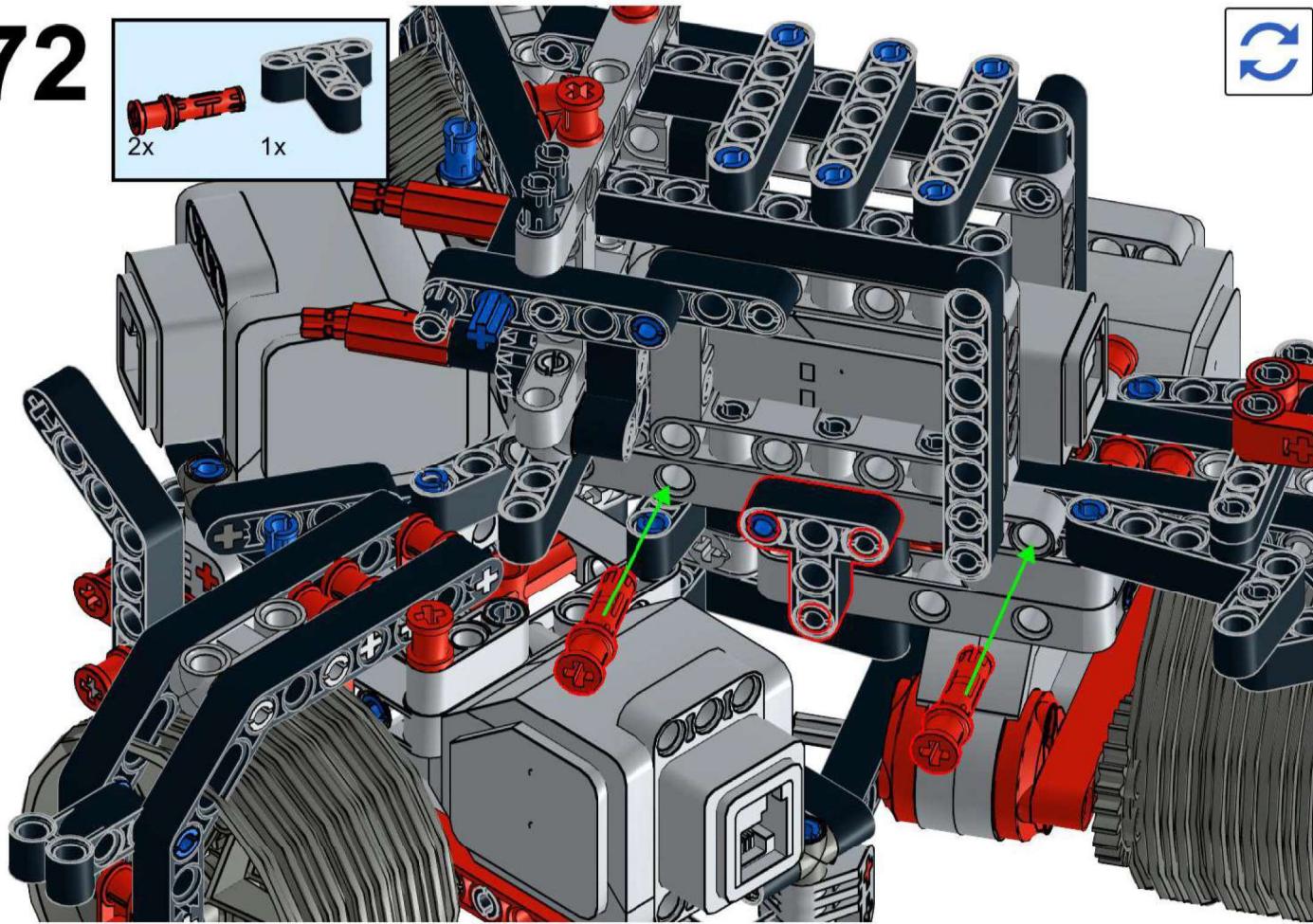
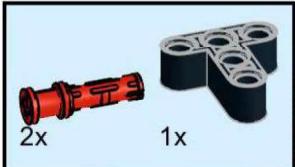
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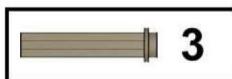
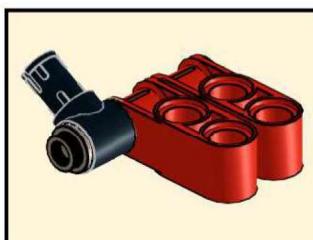
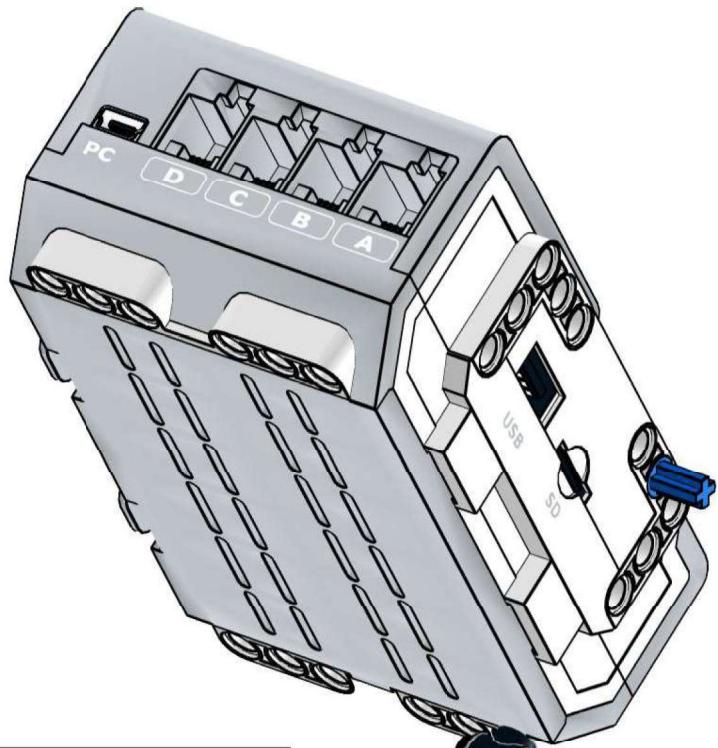
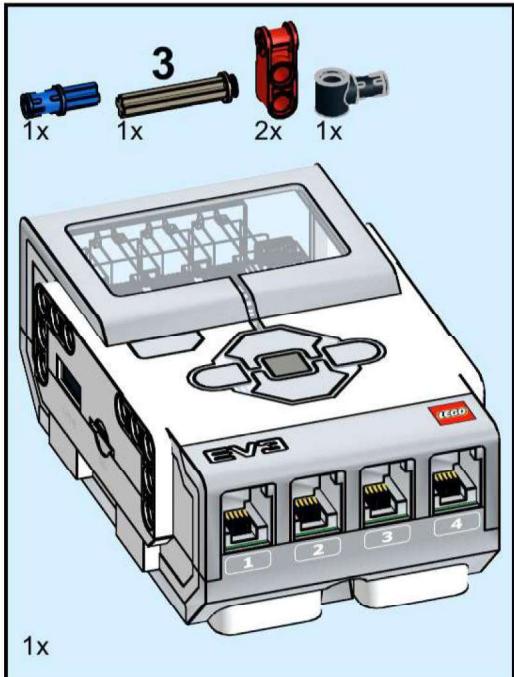


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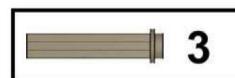
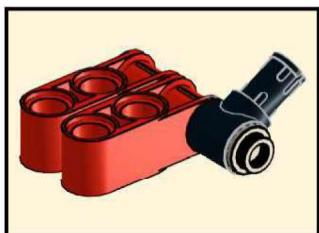
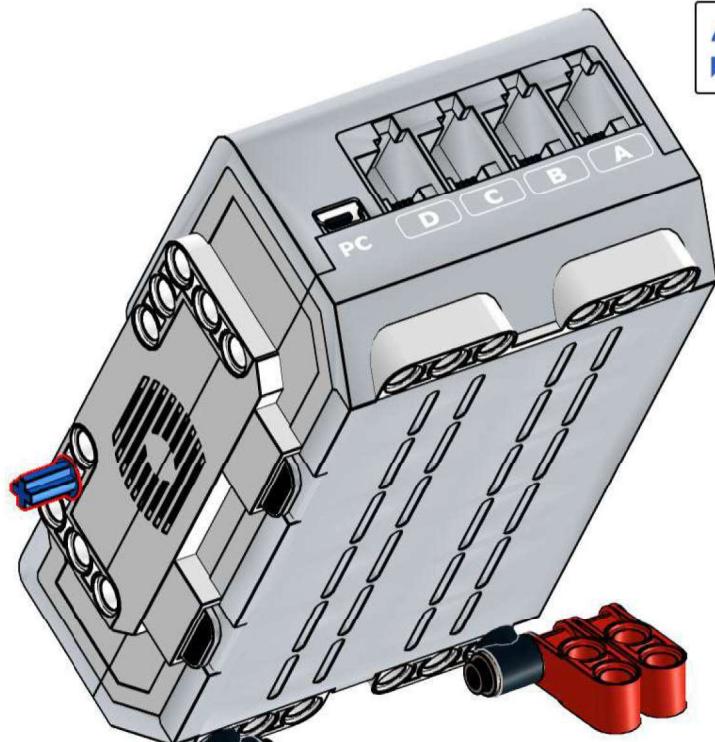
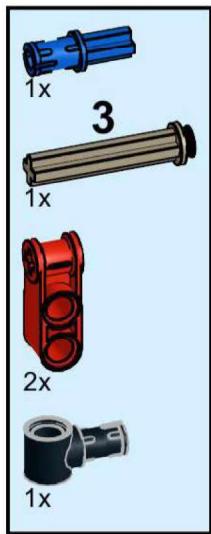
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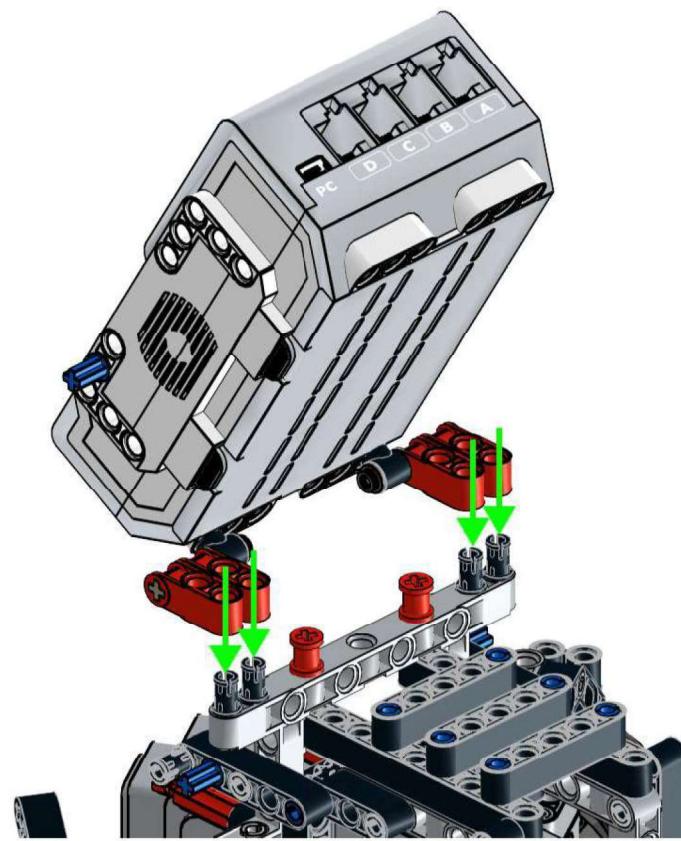
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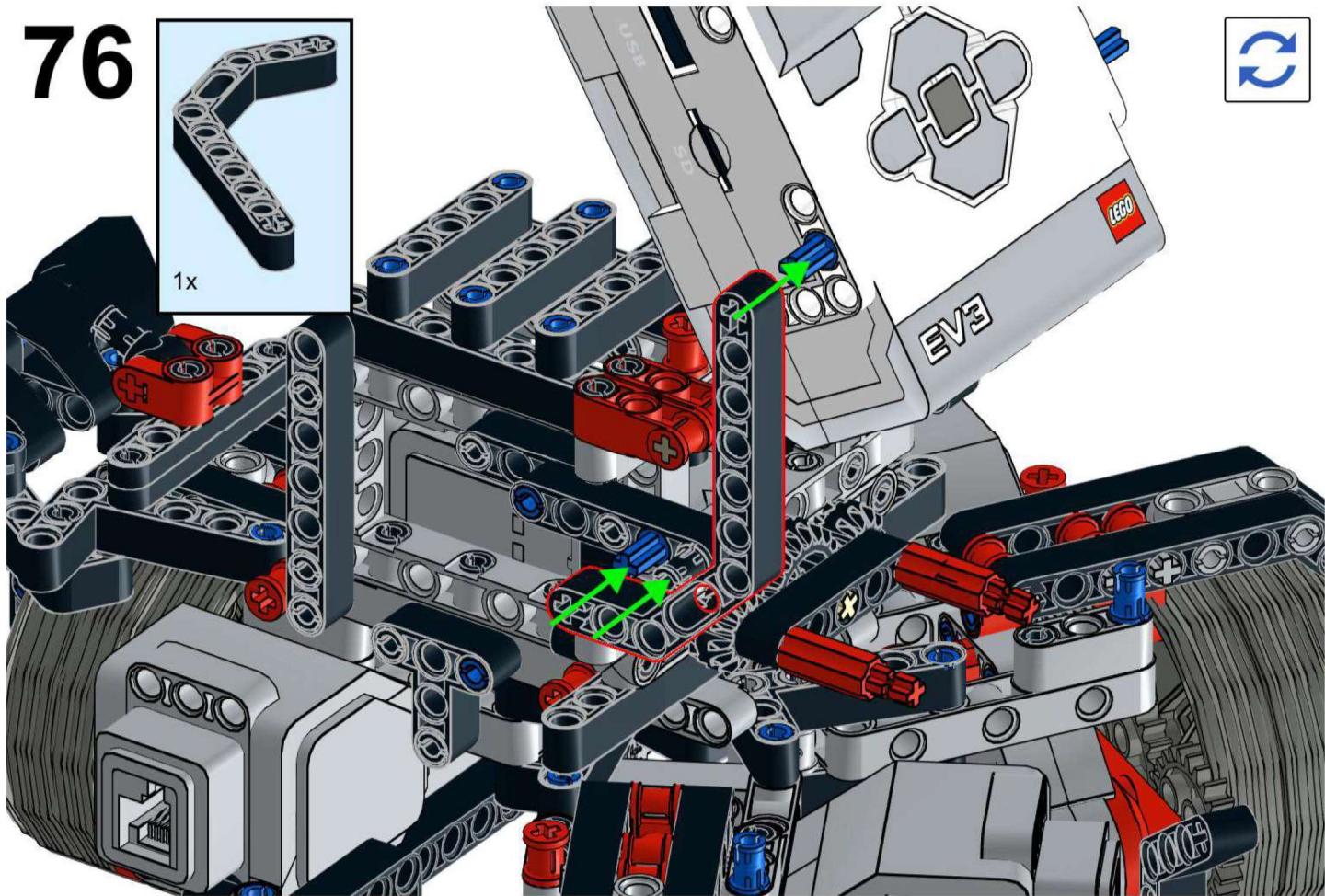
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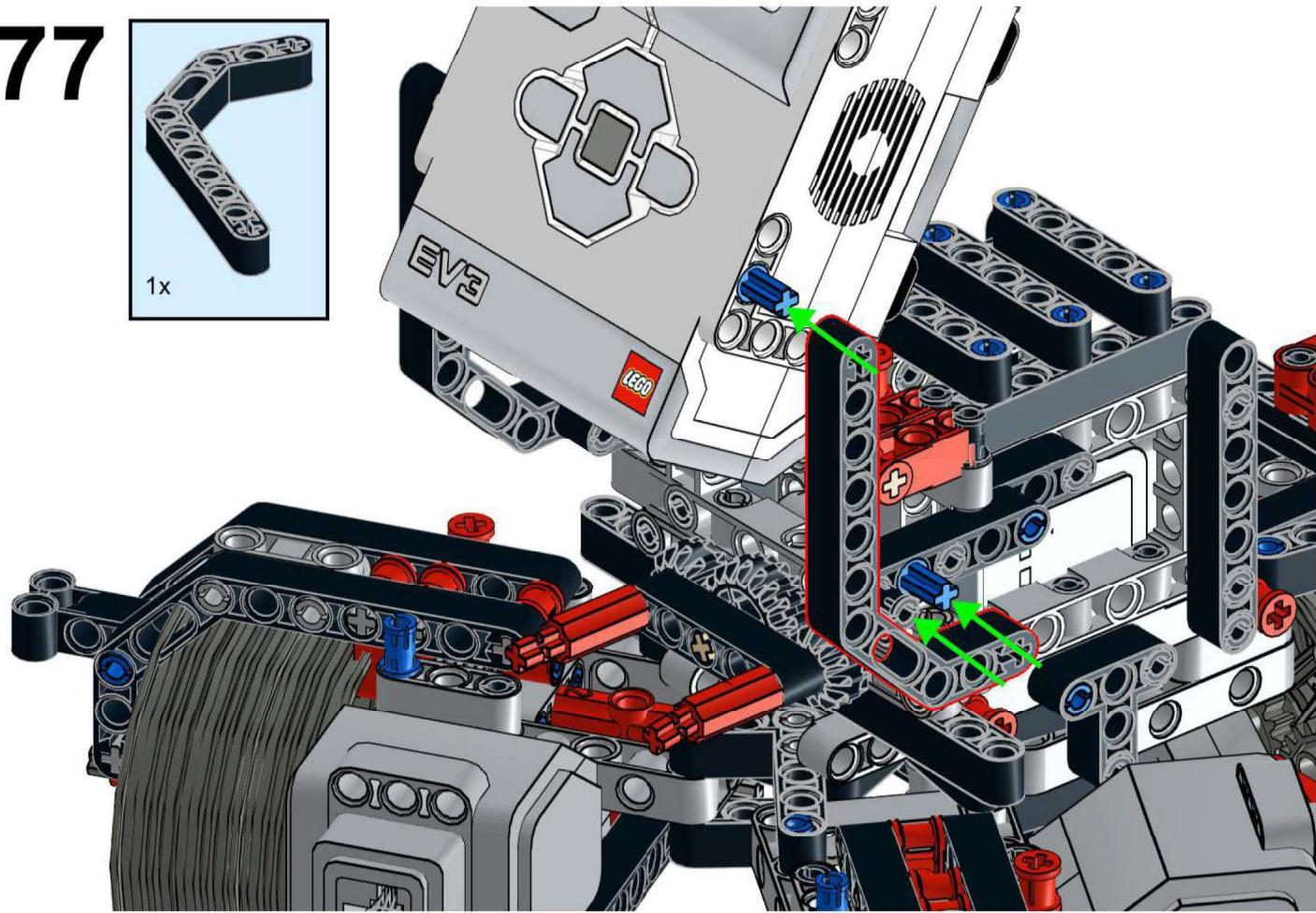
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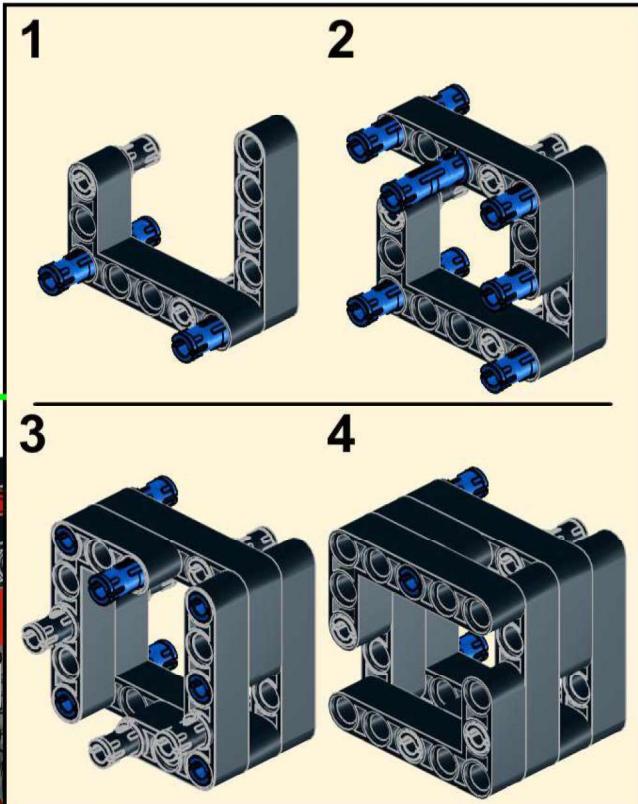
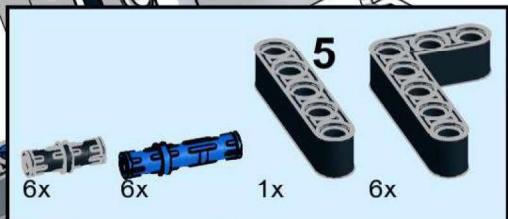
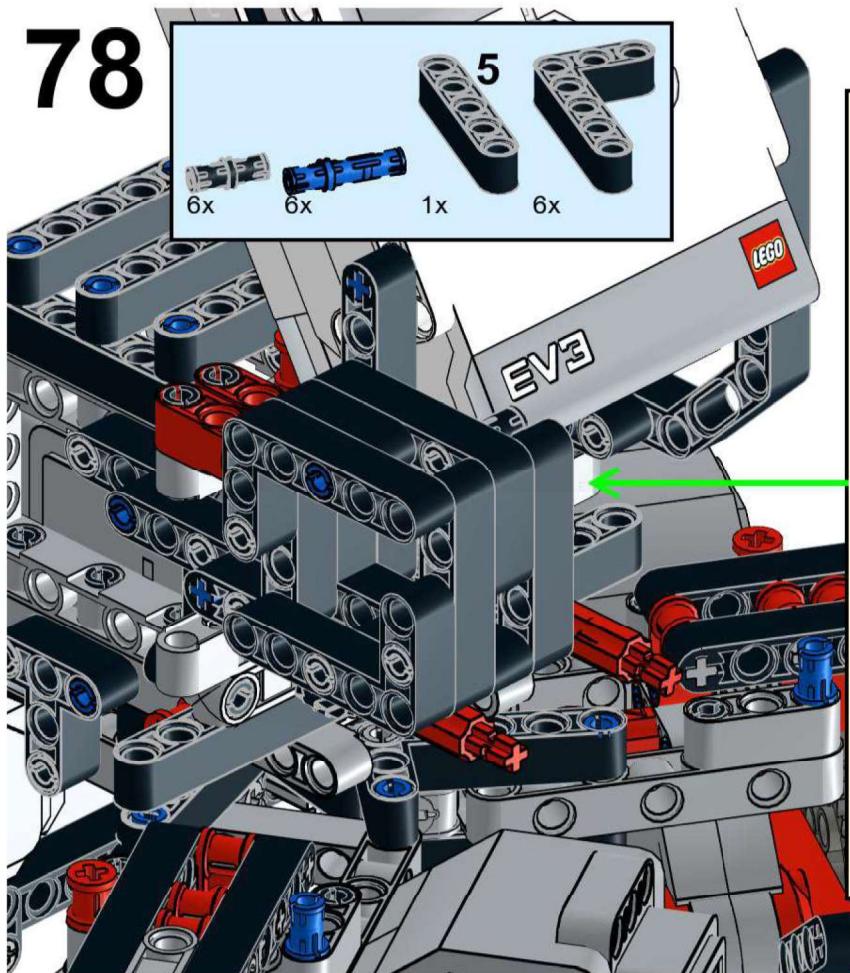
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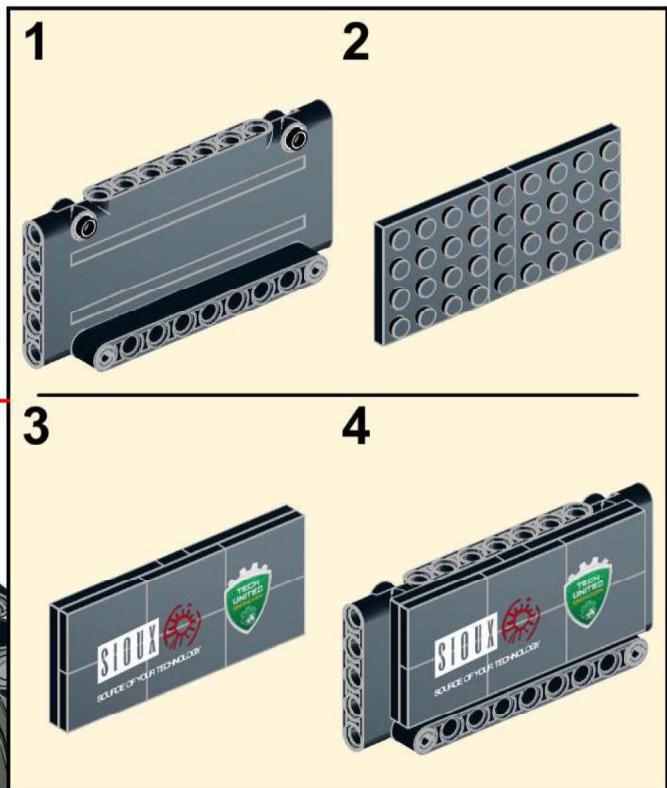
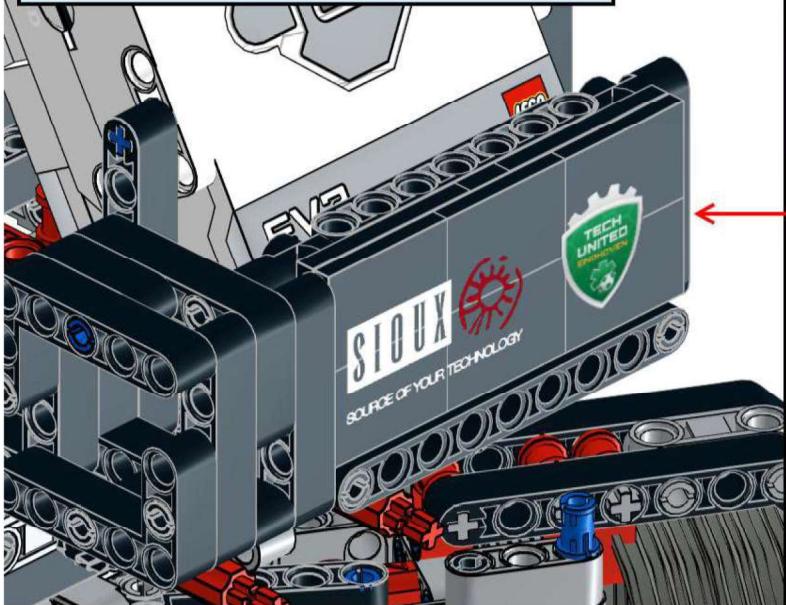
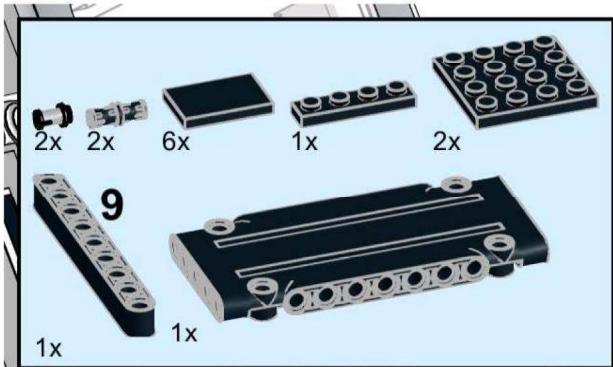
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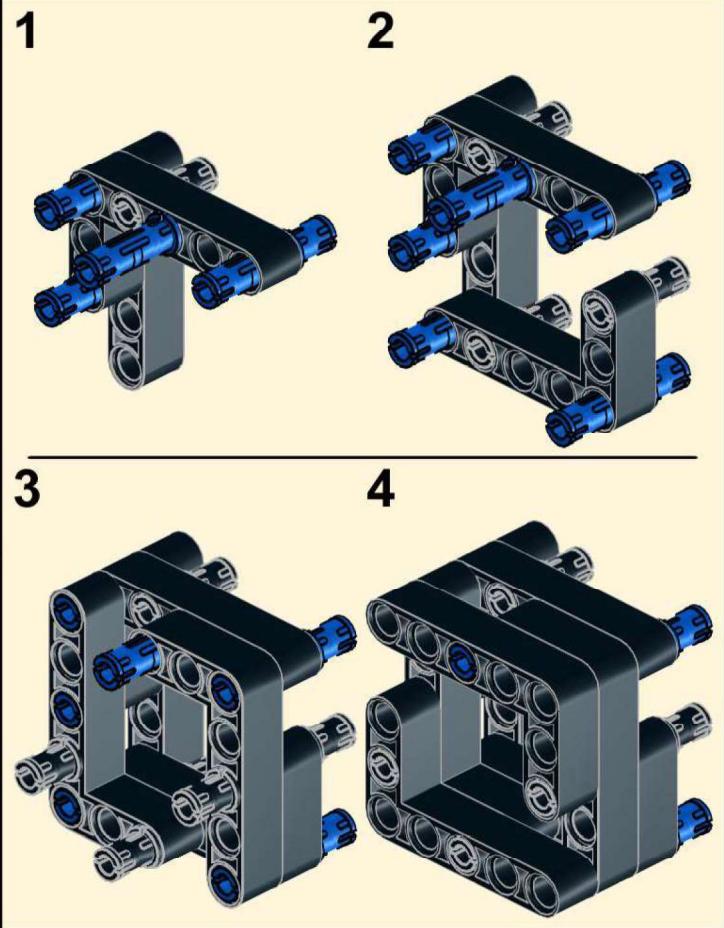
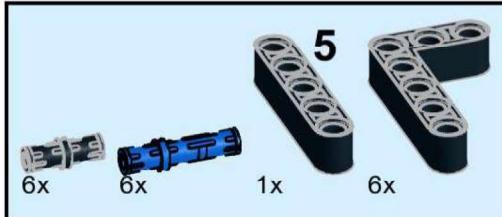
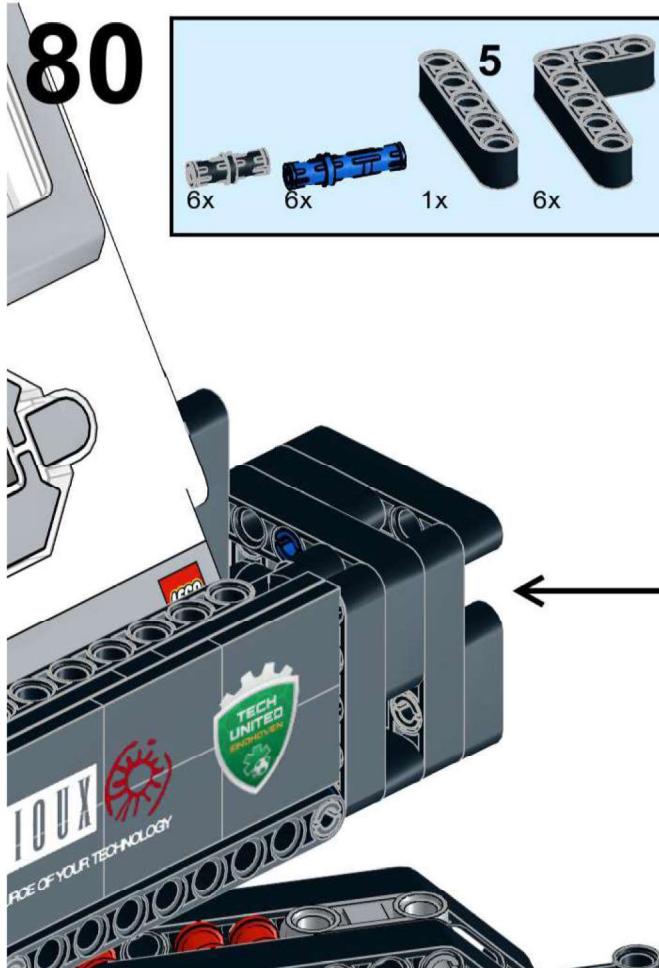
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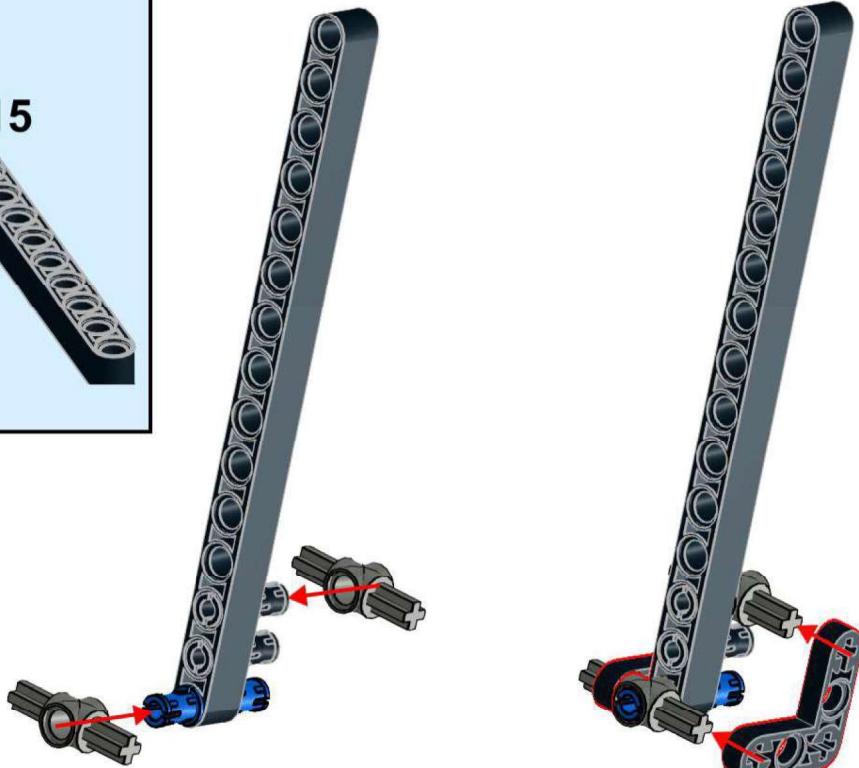
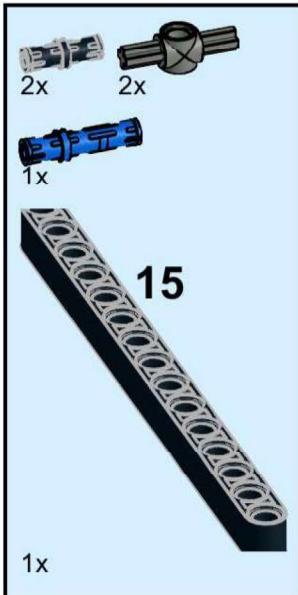
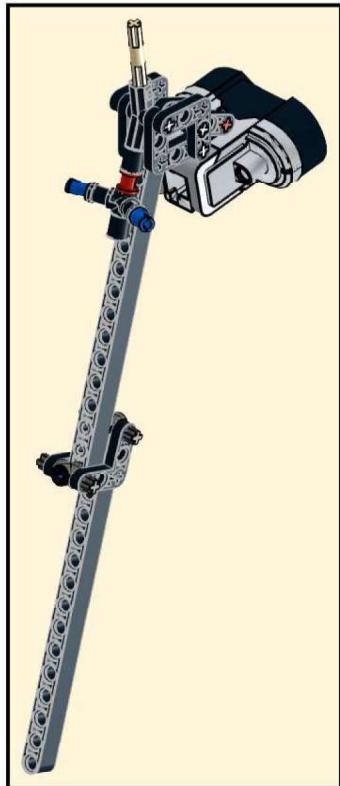


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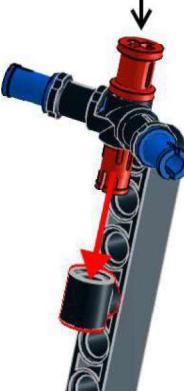


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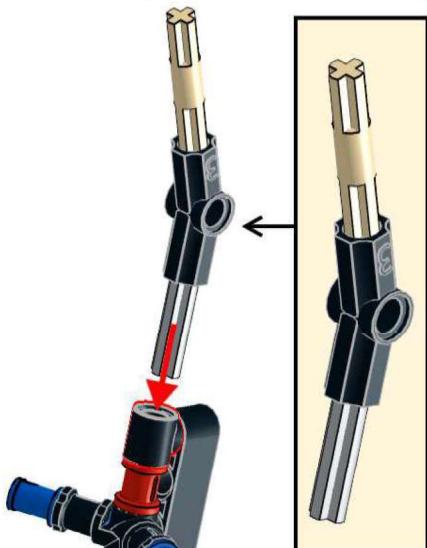




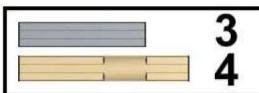
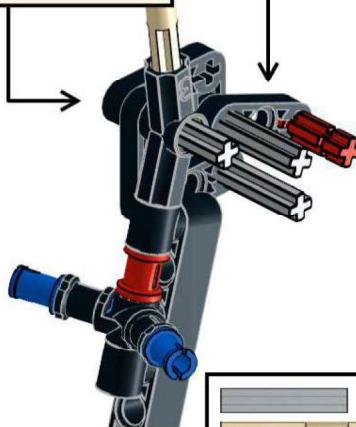
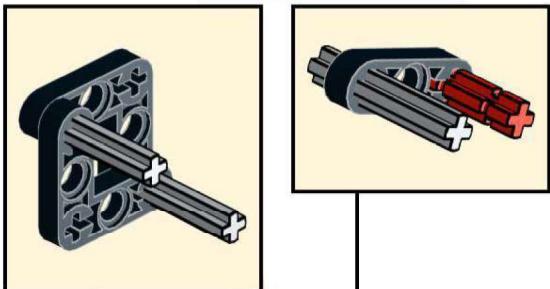
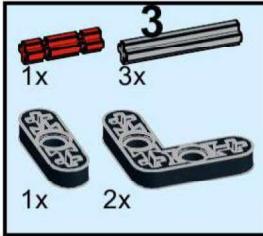
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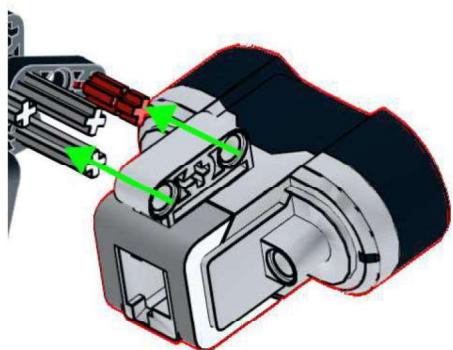
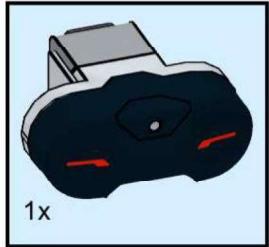
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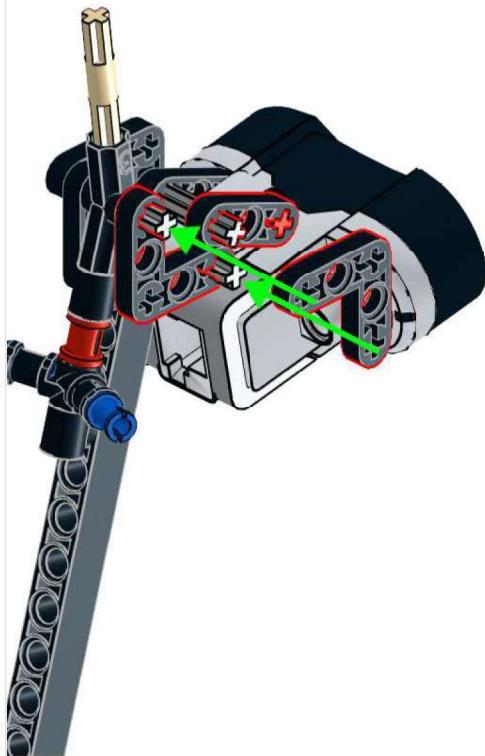
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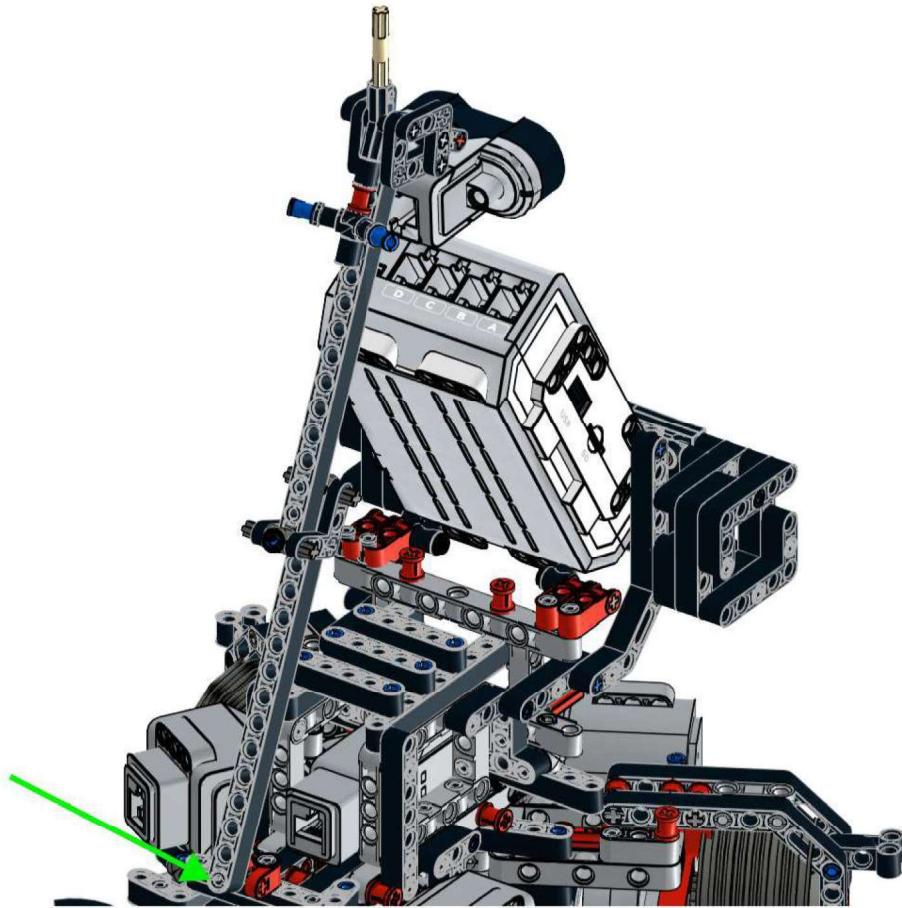
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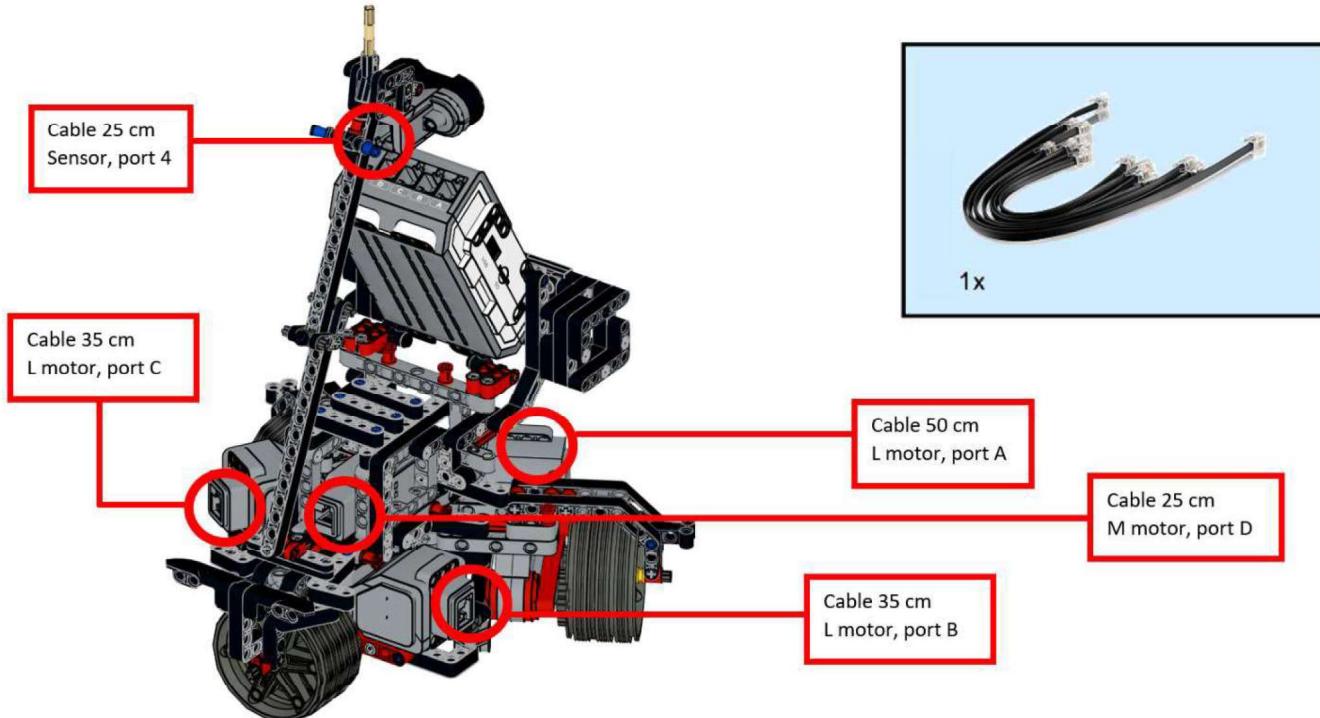


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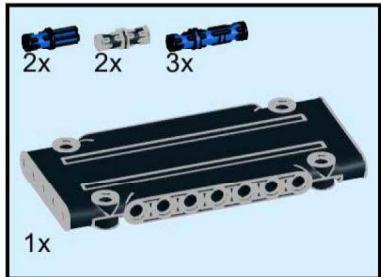
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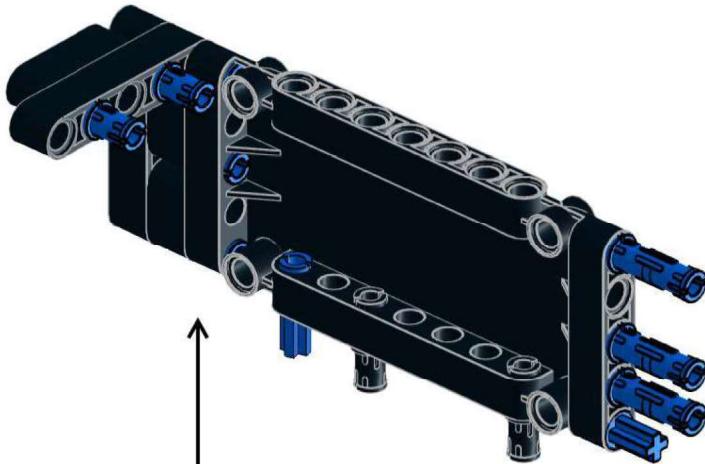
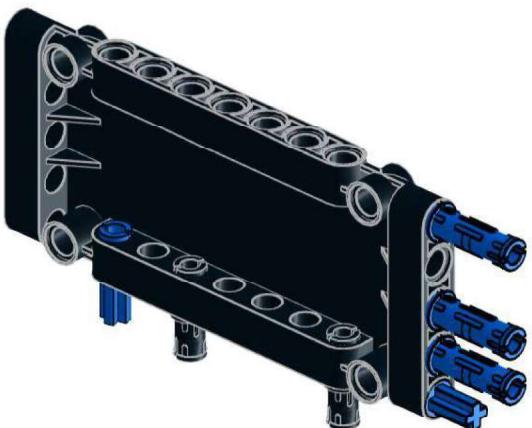
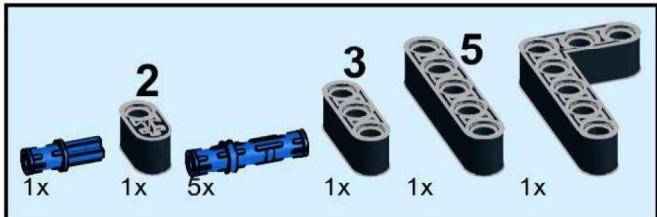


MAKE SURE THAT THE CABLES DON'T TOUCH ANY MOVING PARTS

90



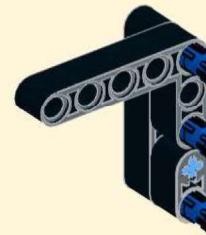
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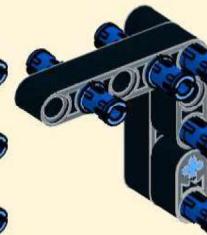
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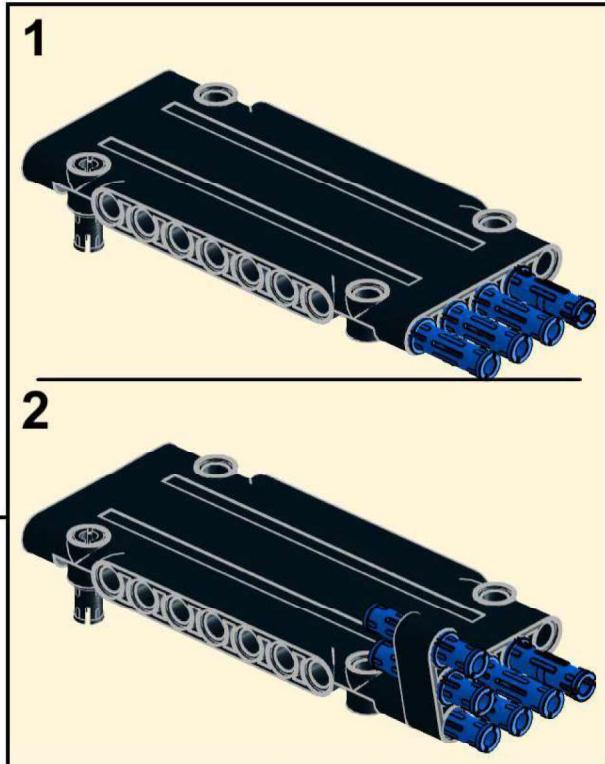
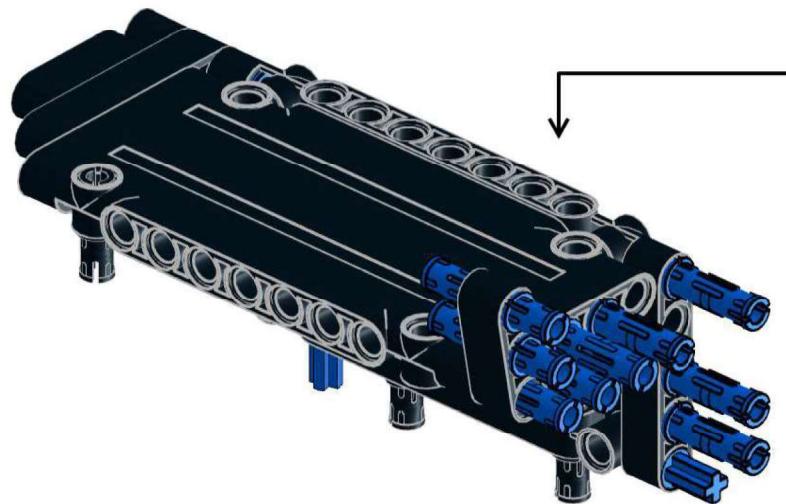
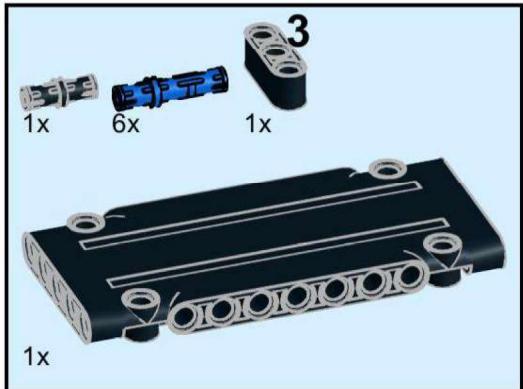
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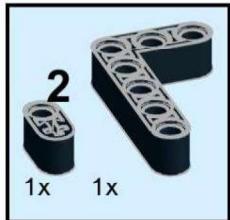
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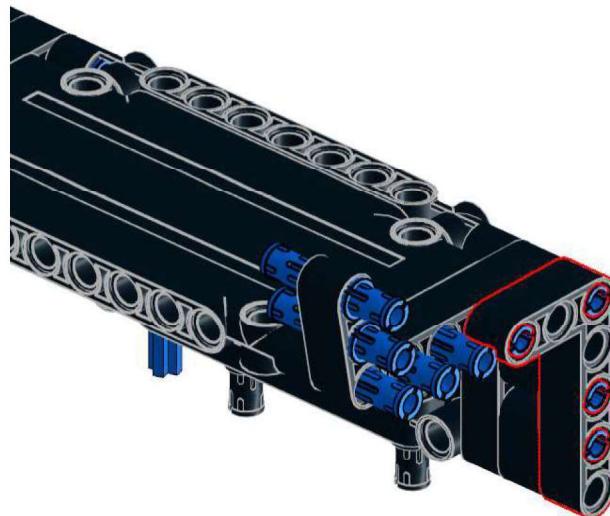
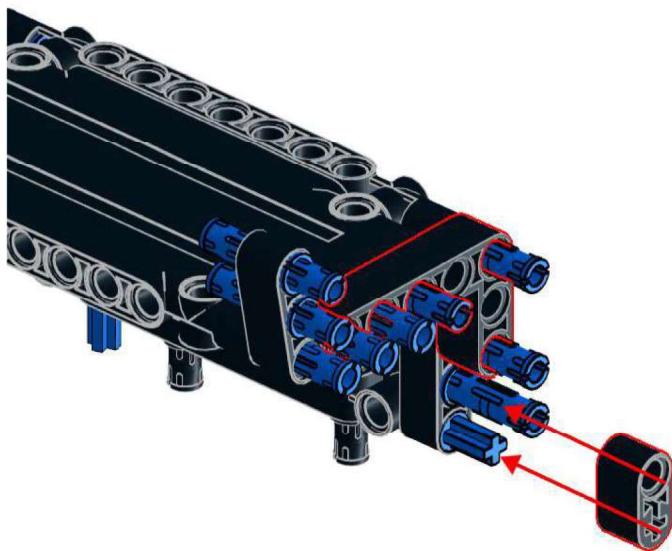
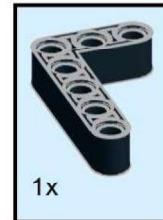
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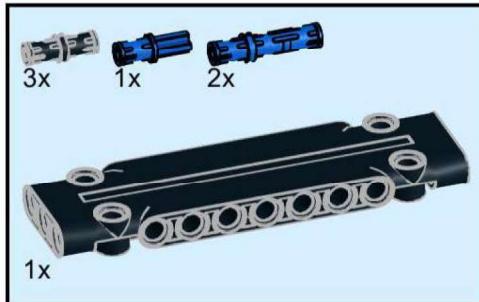
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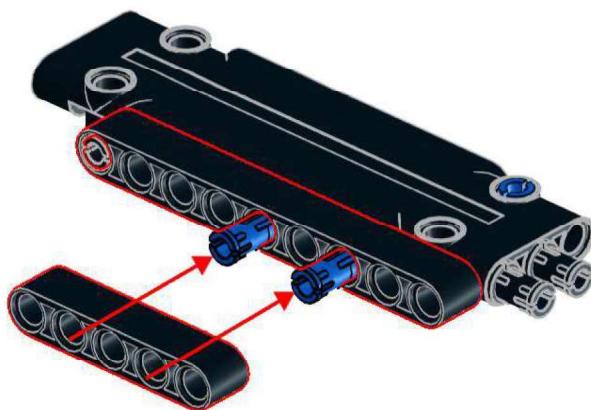
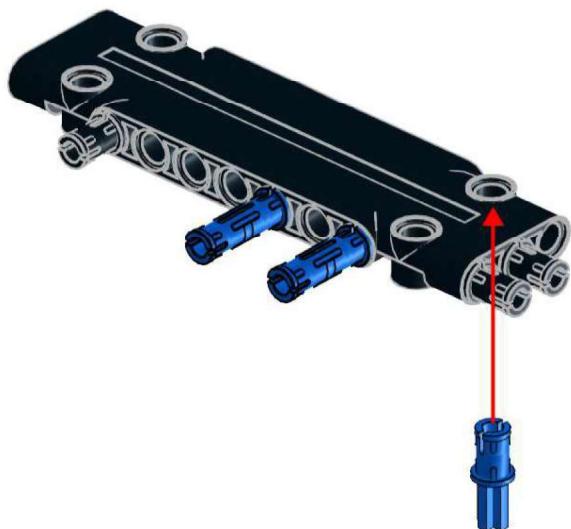
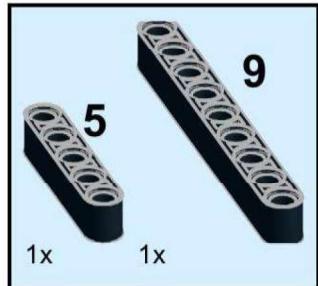
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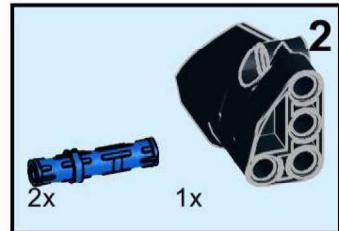
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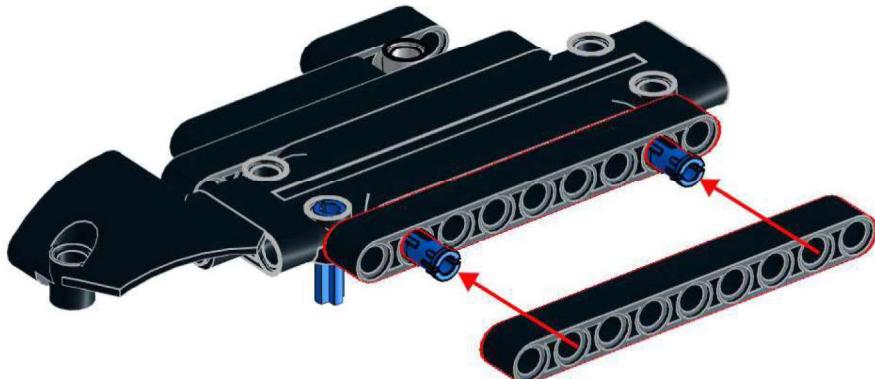
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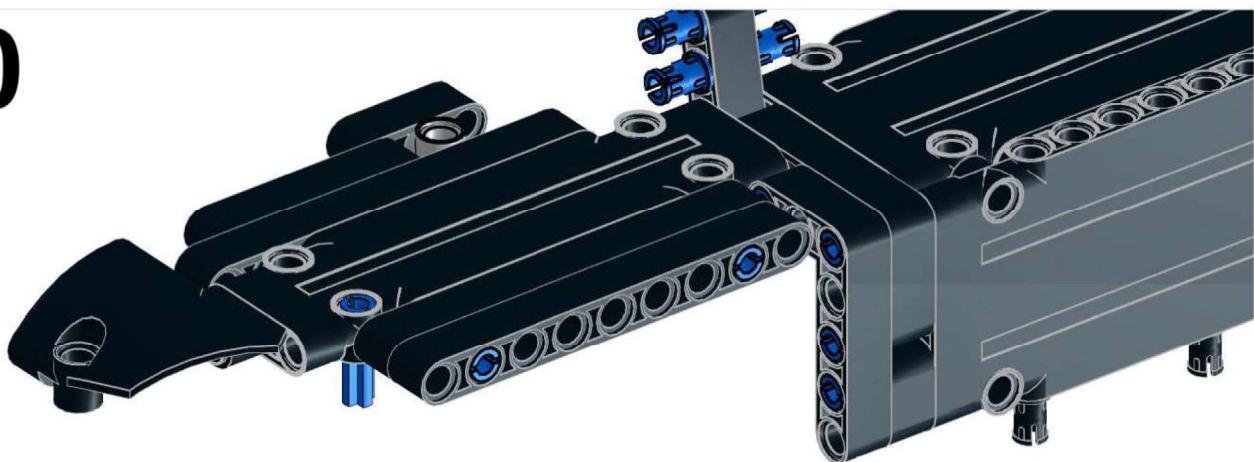
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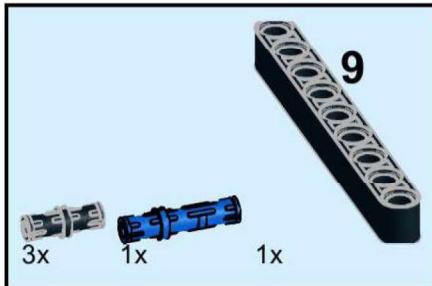
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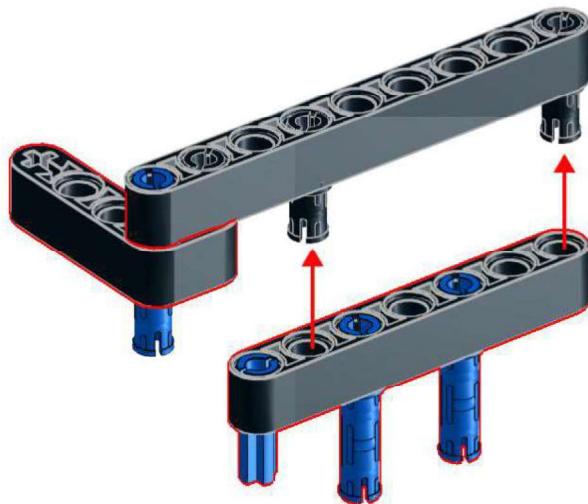
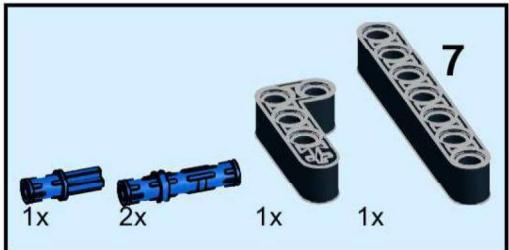
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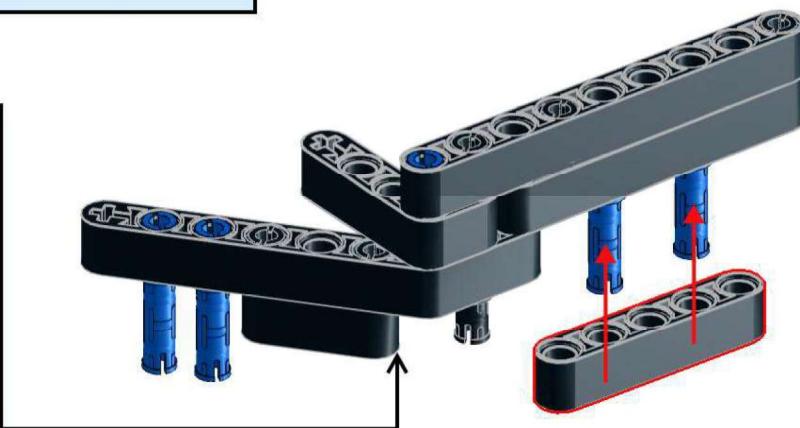
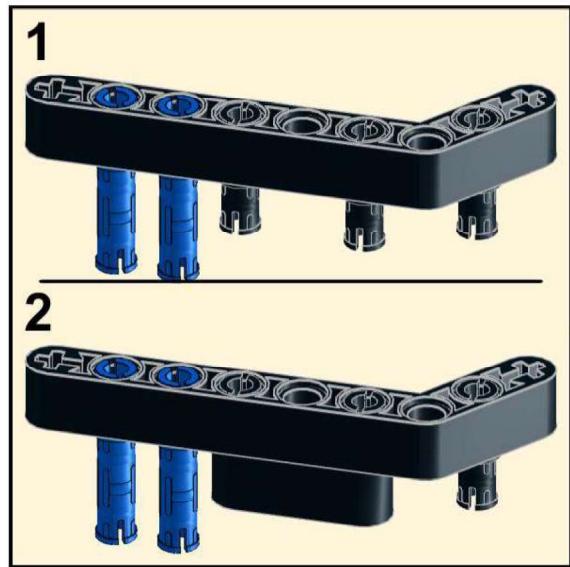
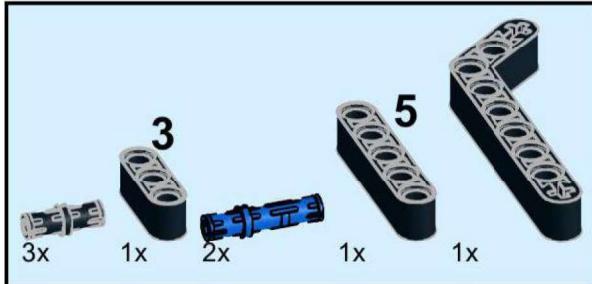
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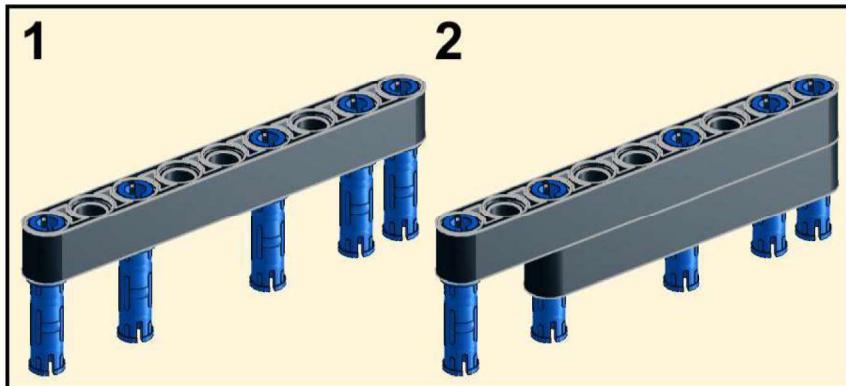
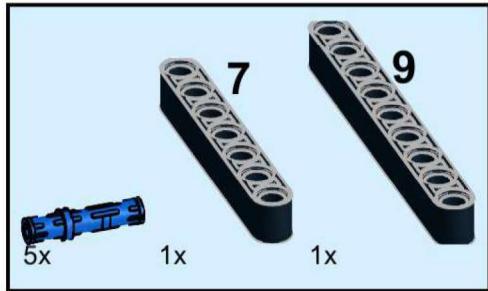
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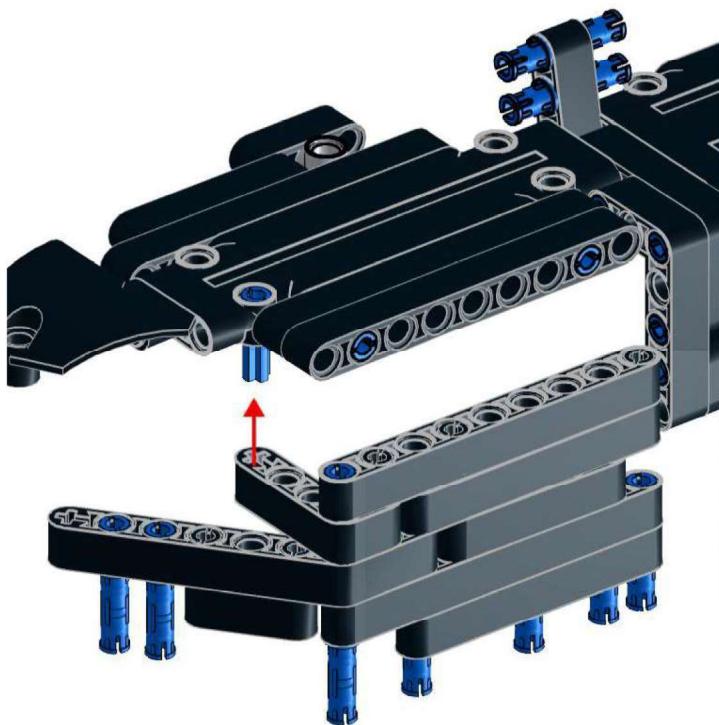
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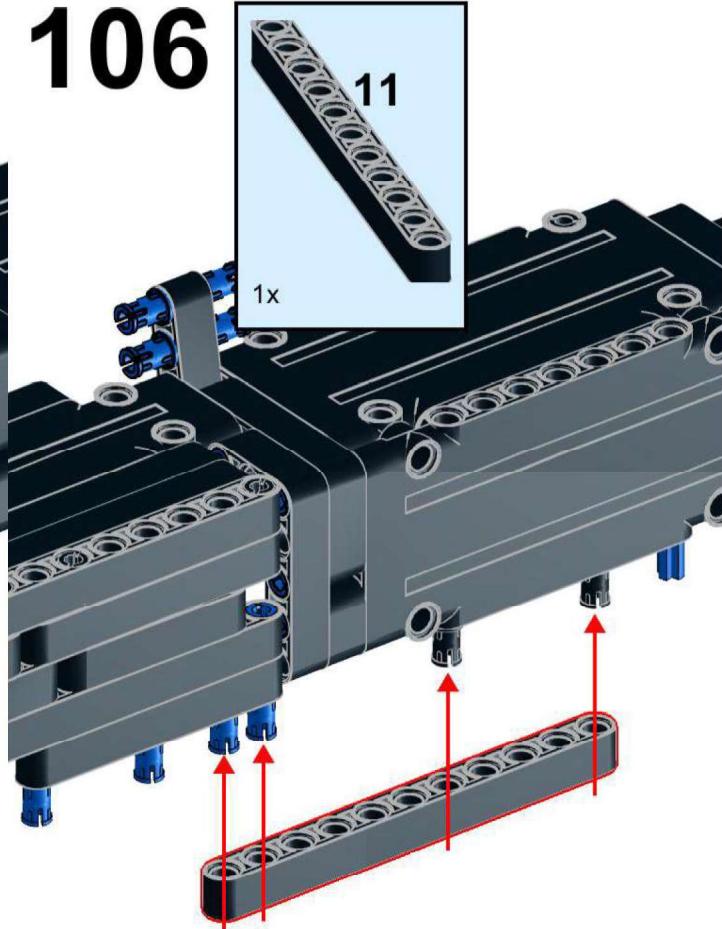
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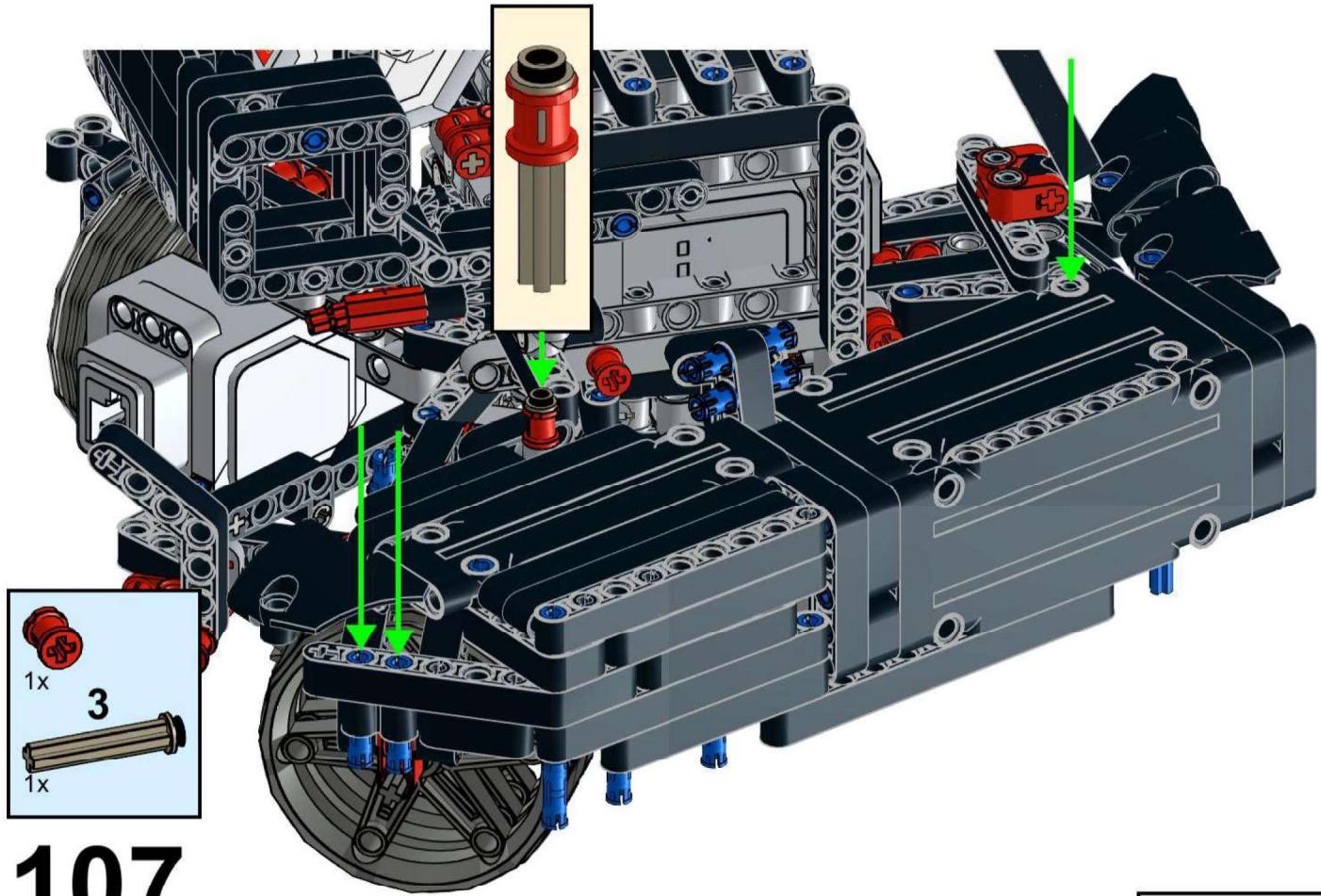


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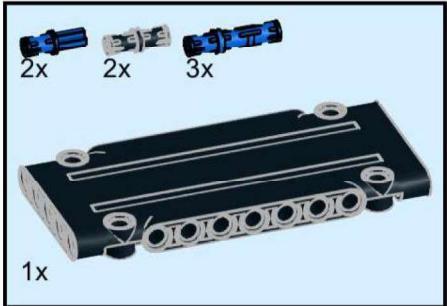
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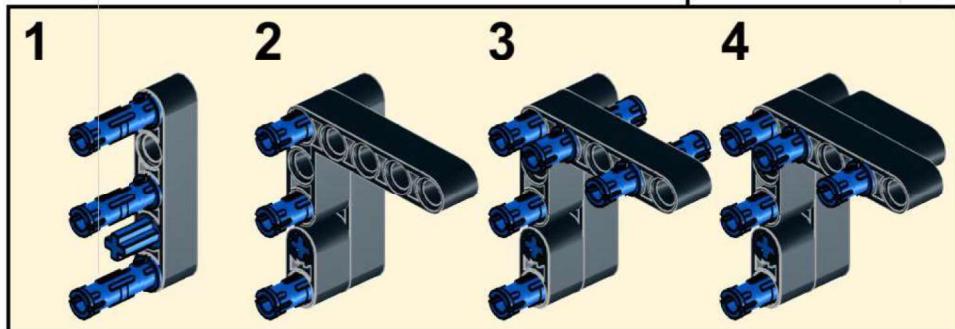
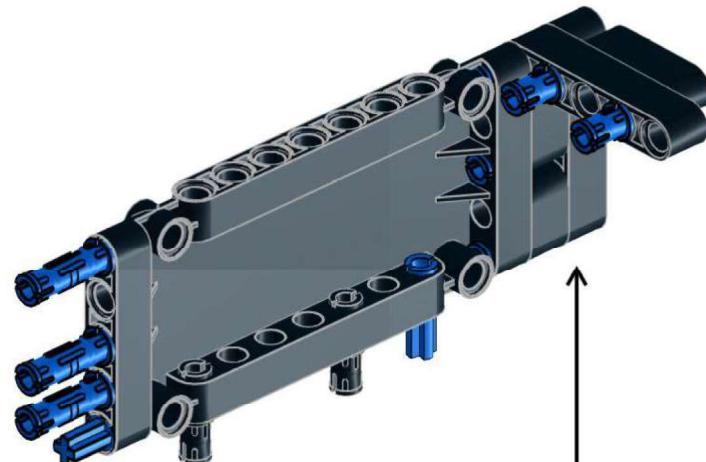
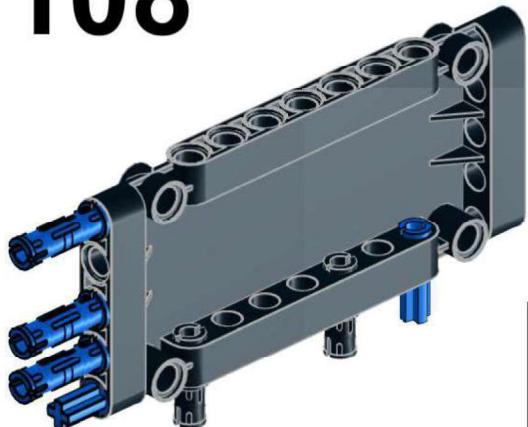
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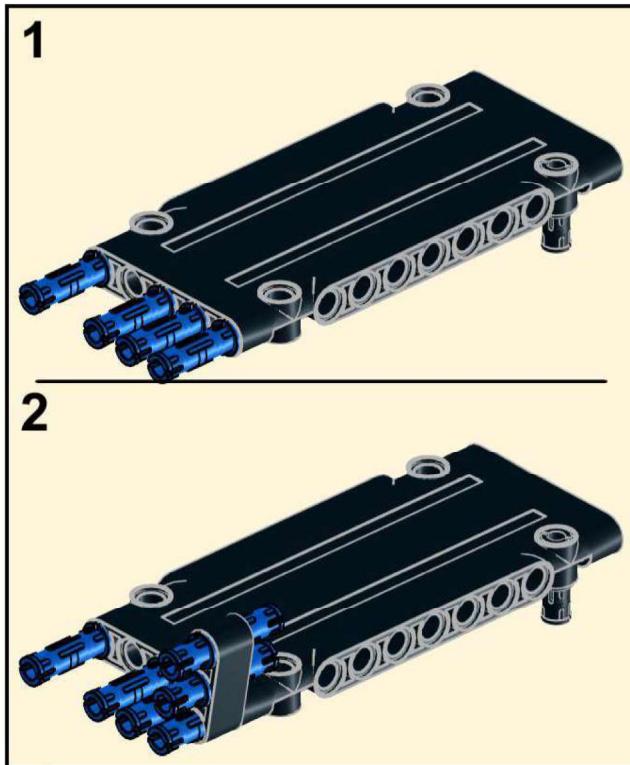
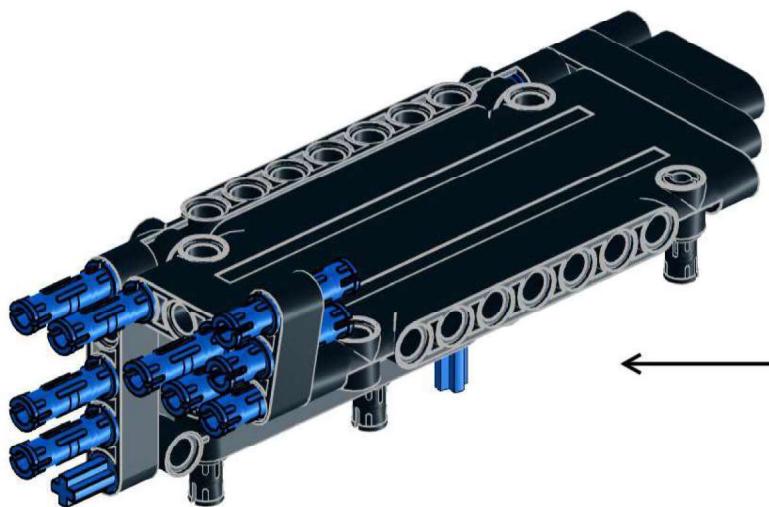
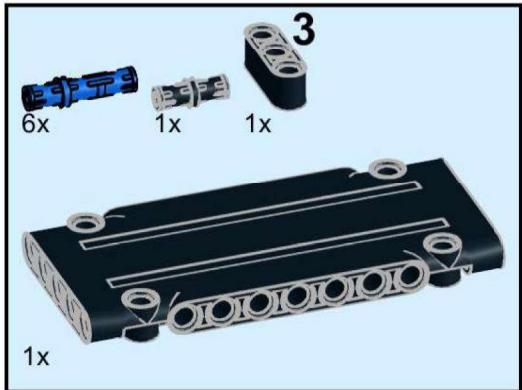
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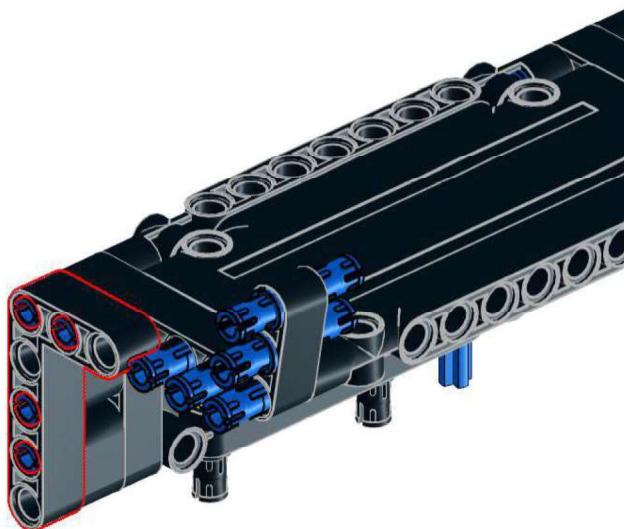
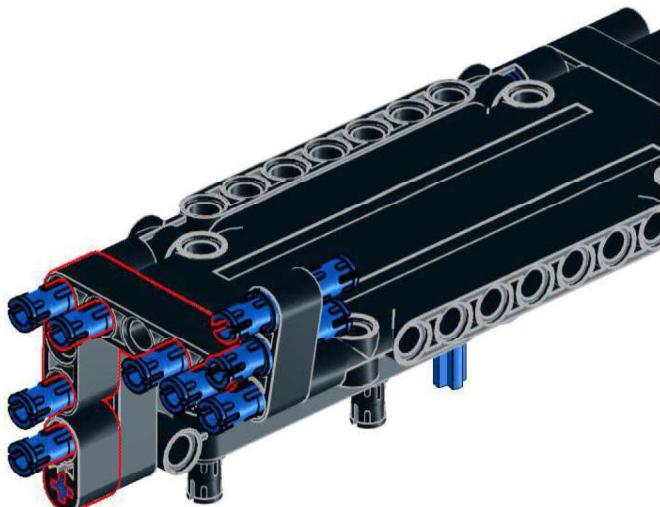
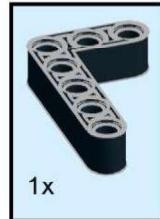
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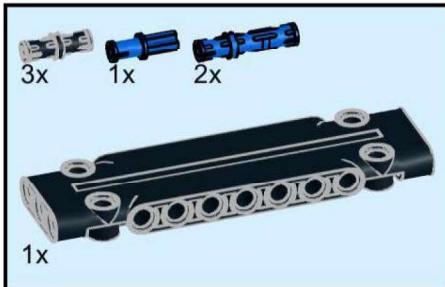
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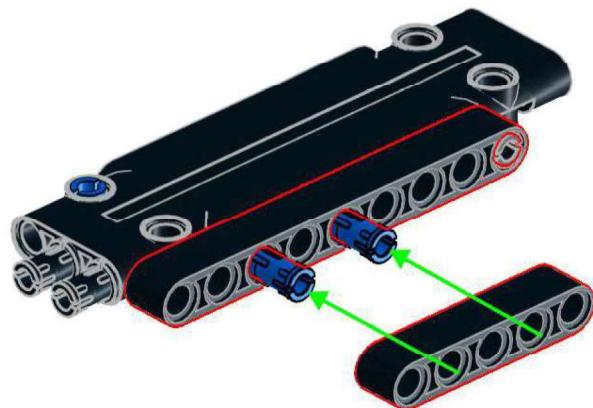
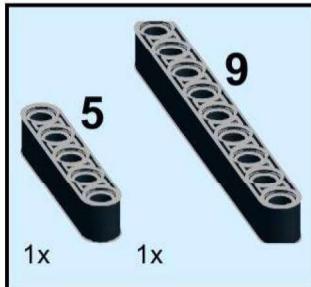
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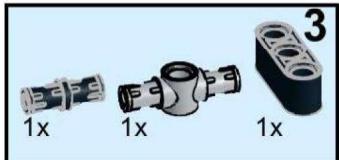
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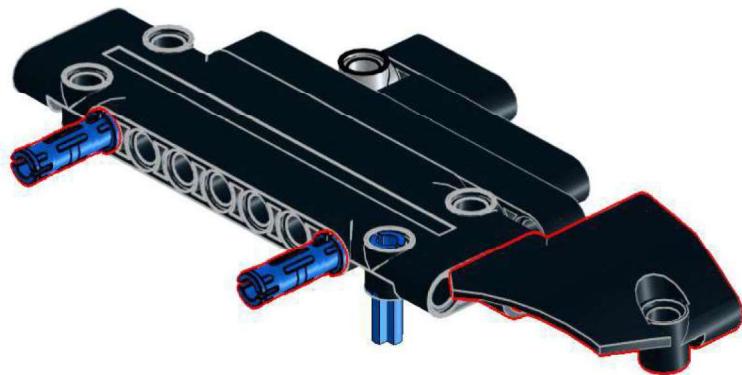
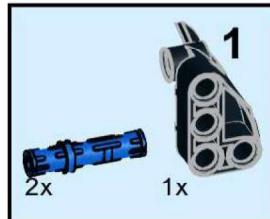
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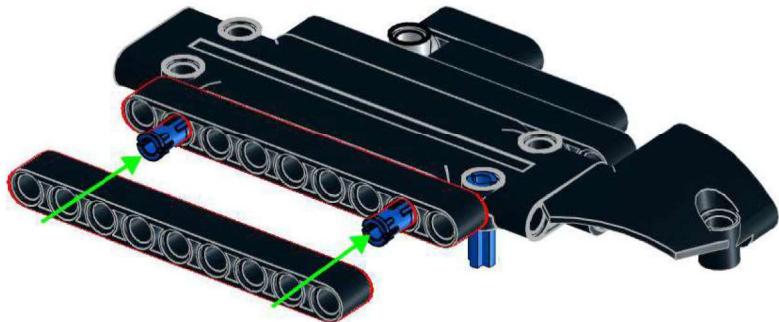
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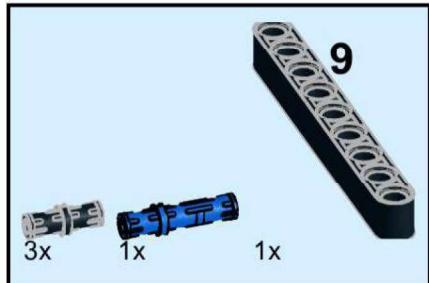
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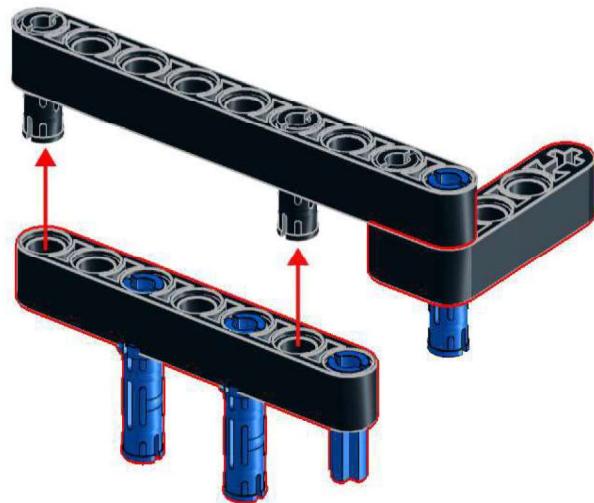
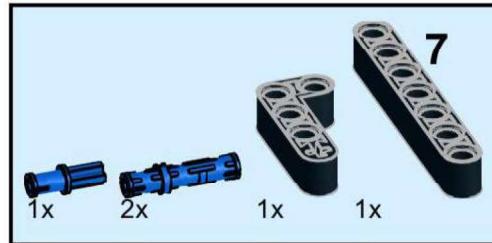
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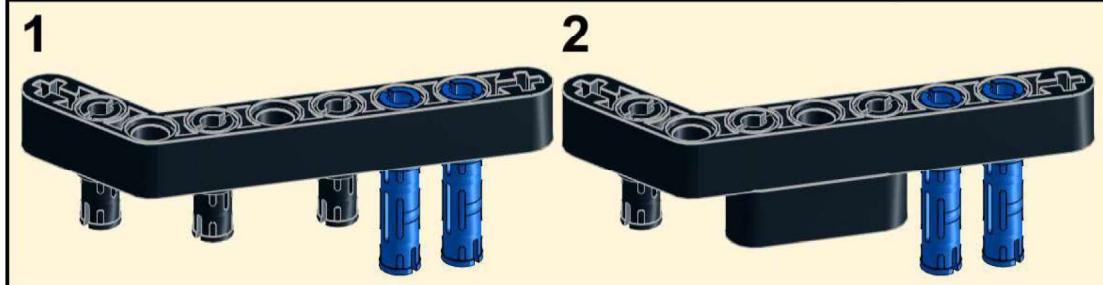
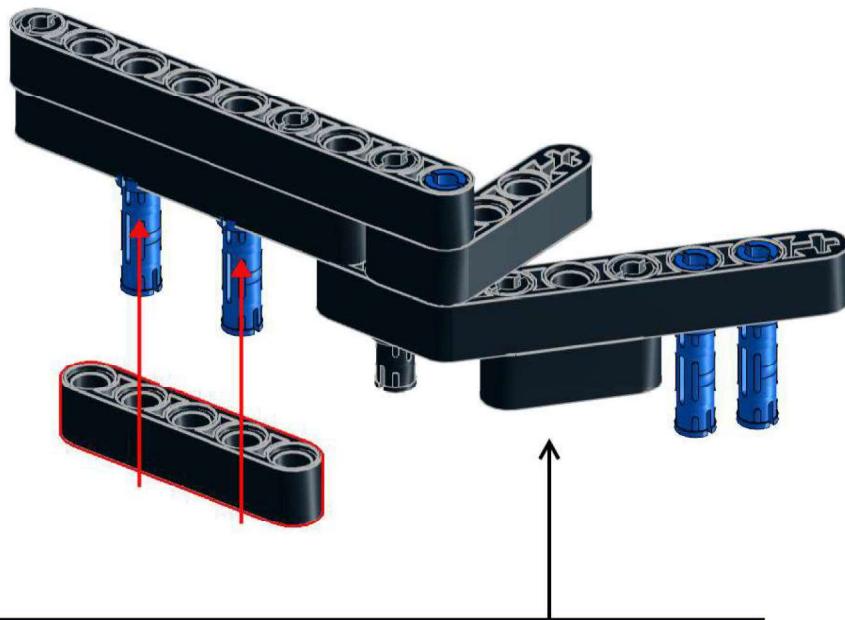
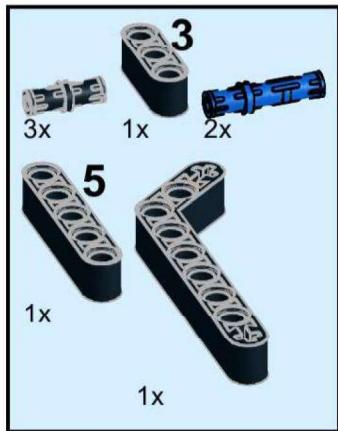
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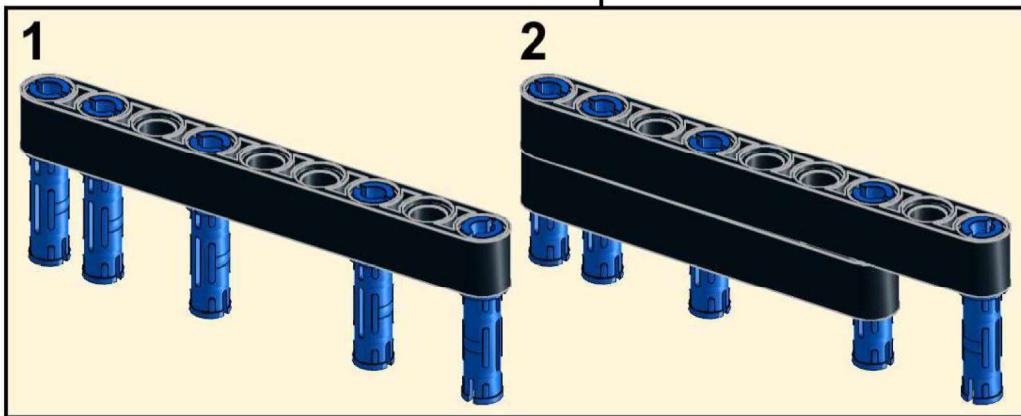
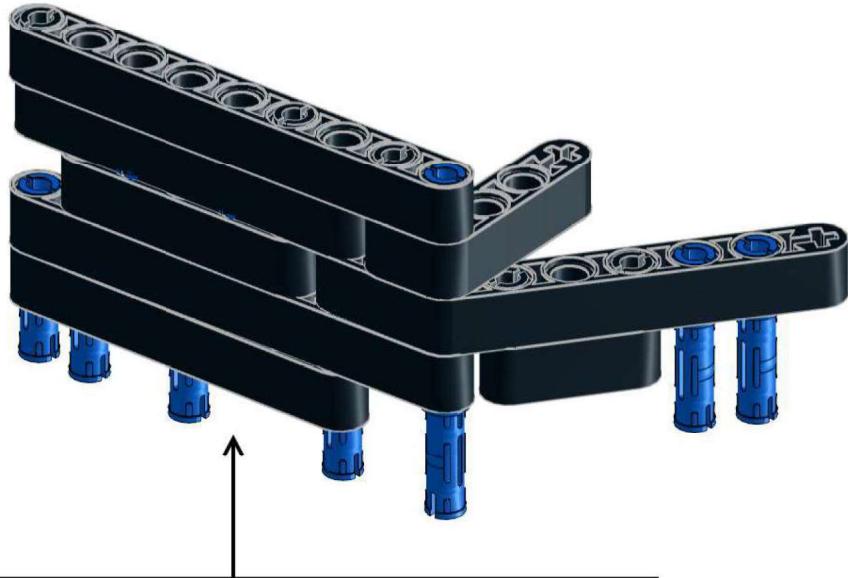
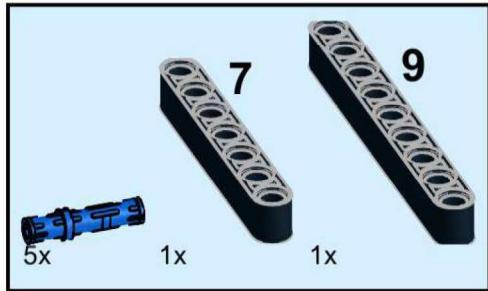
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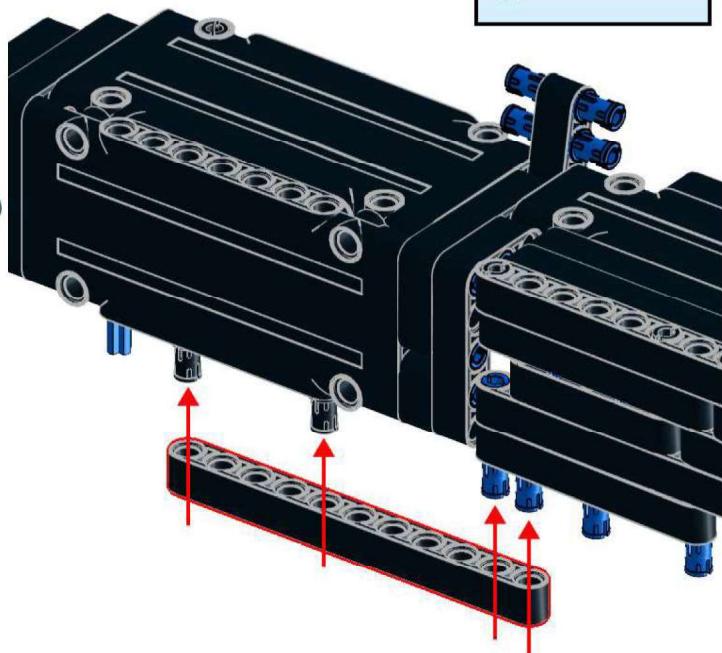
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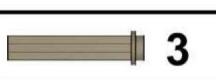
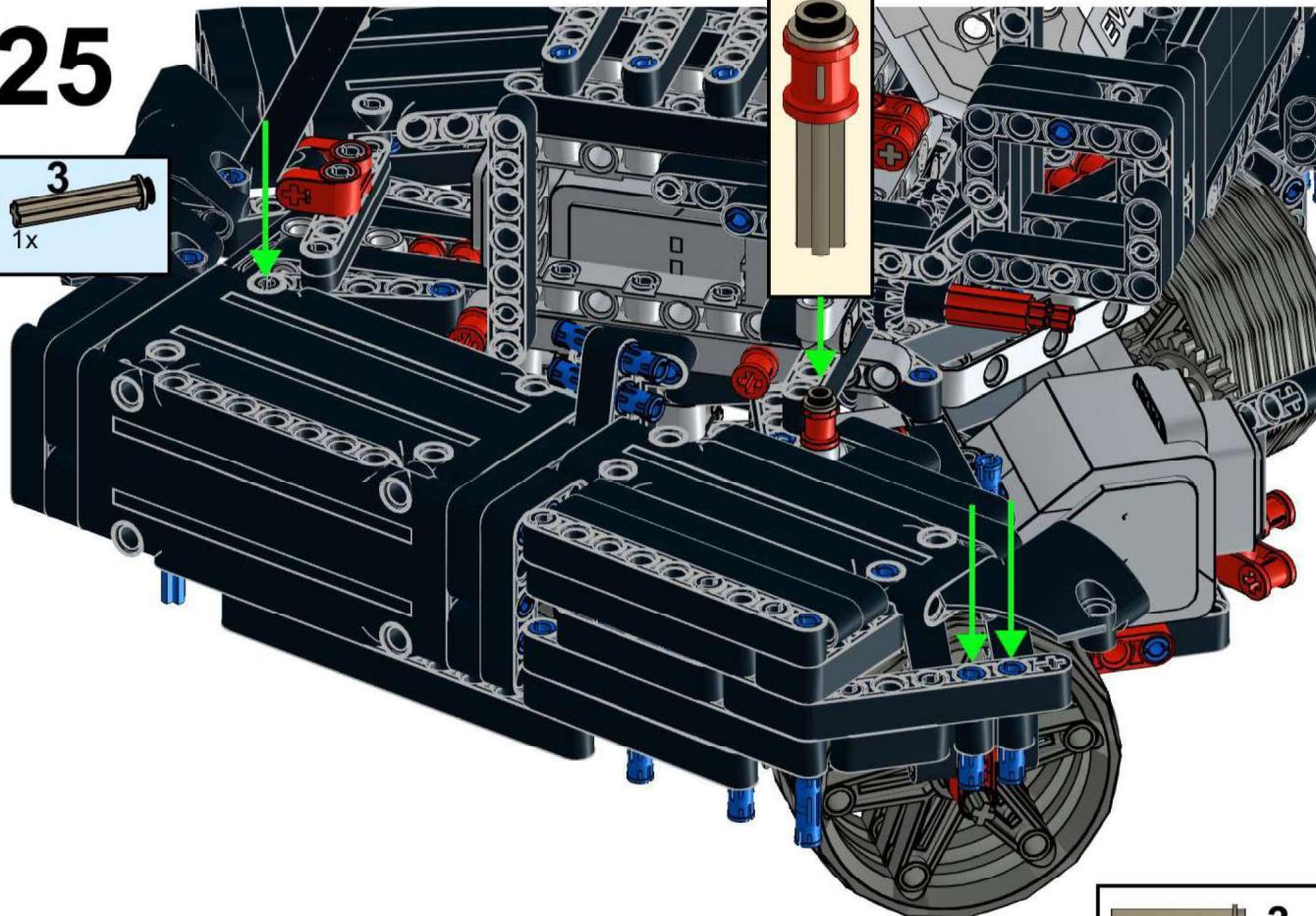
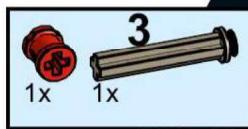
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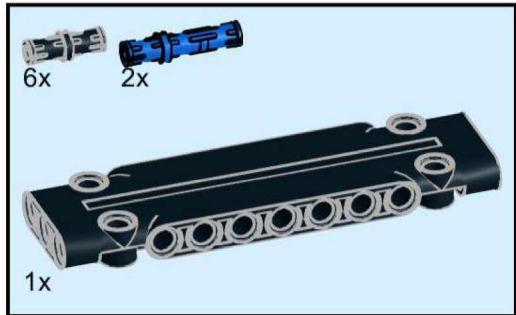
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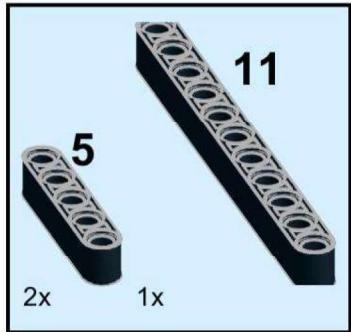
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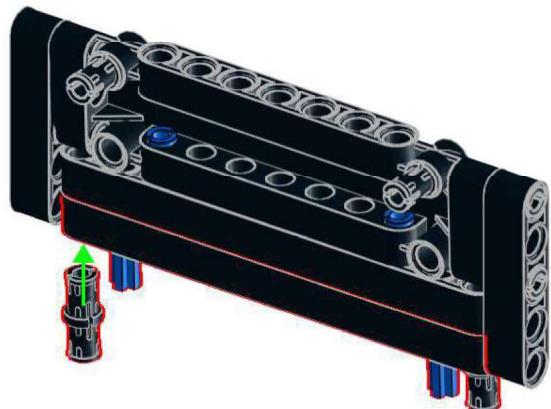
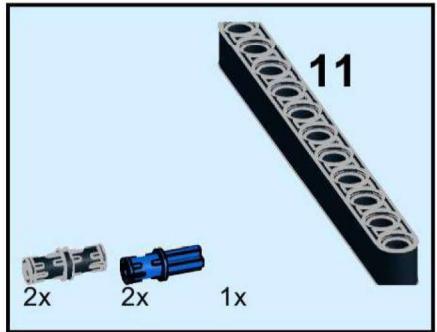
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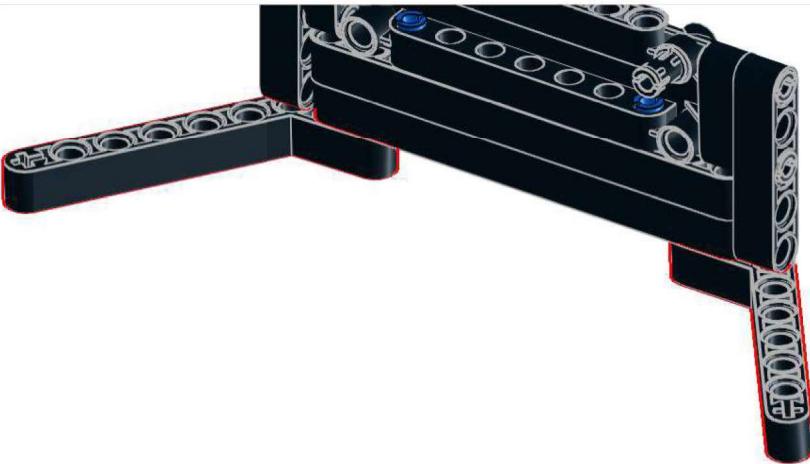
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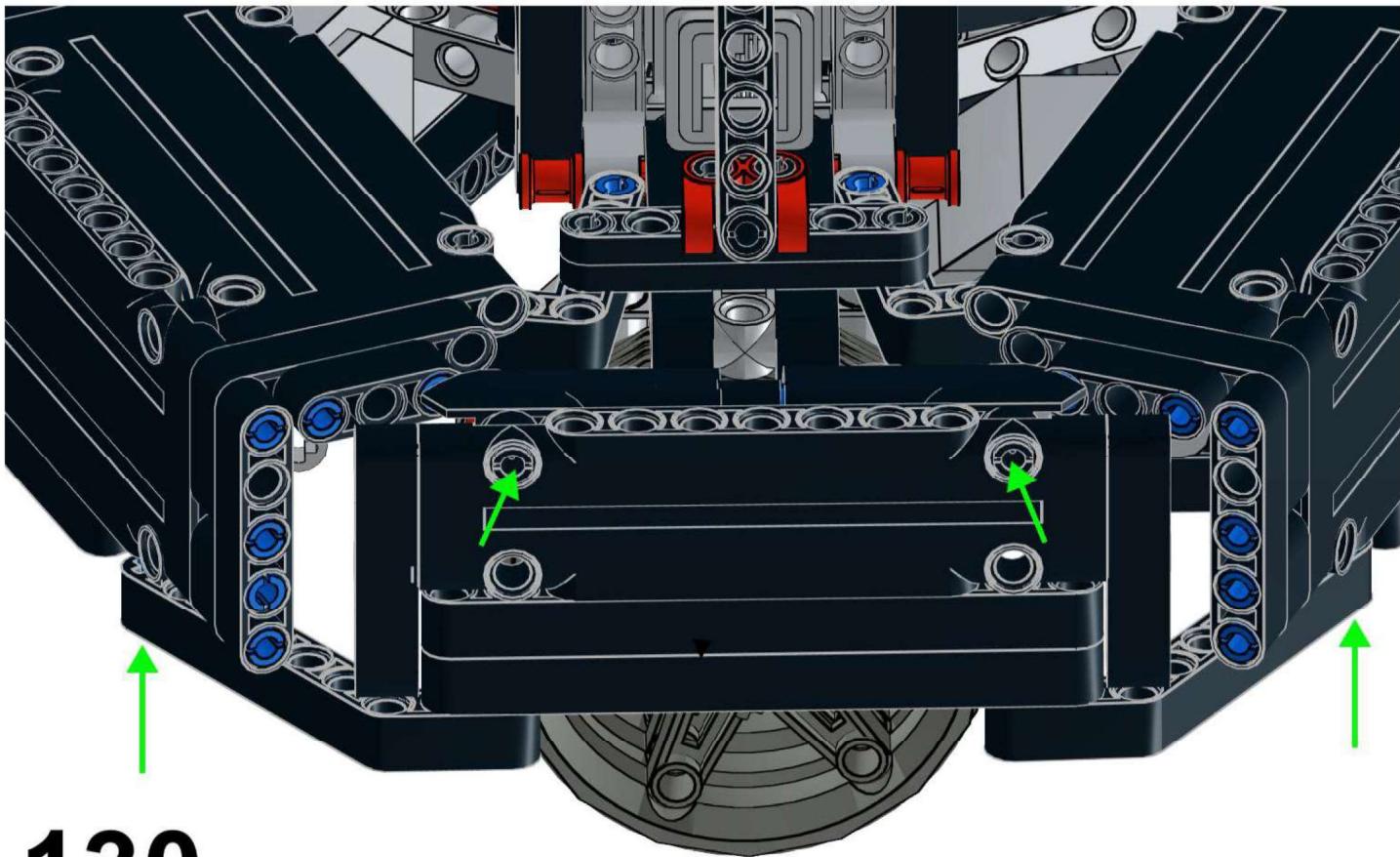


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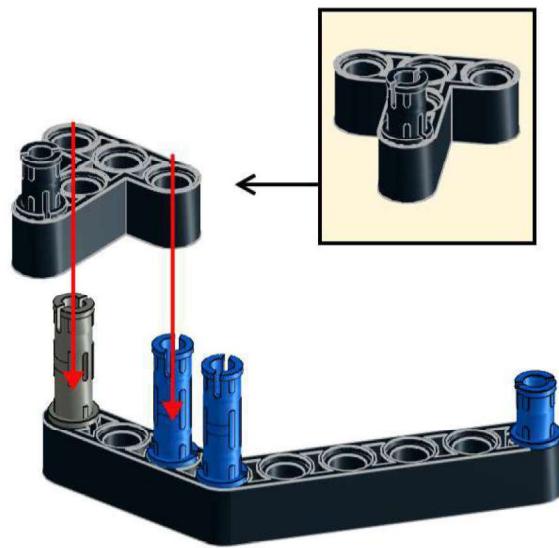
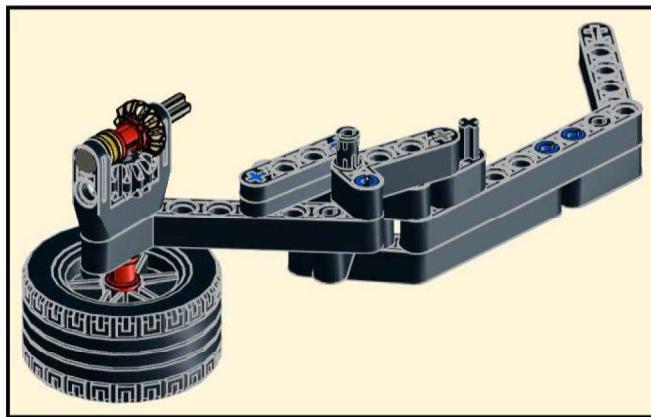
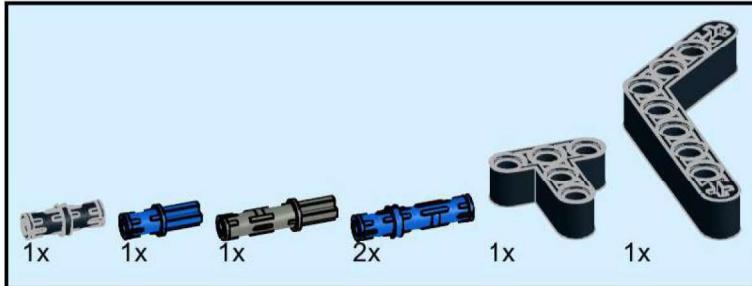
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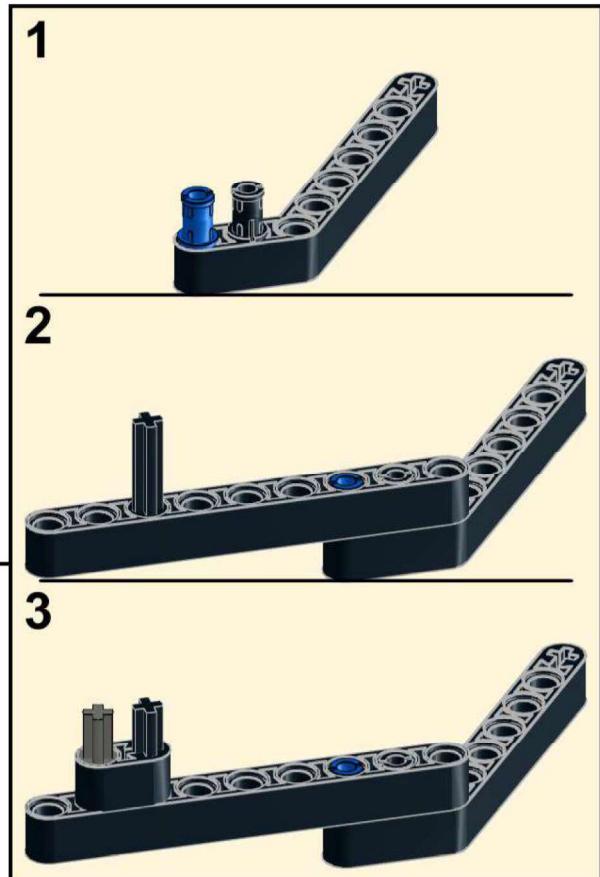
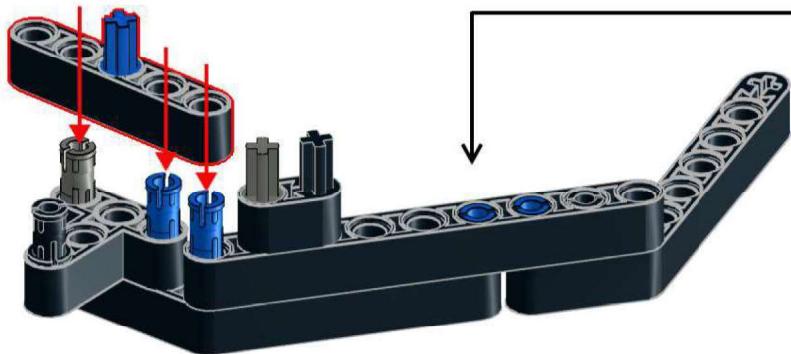
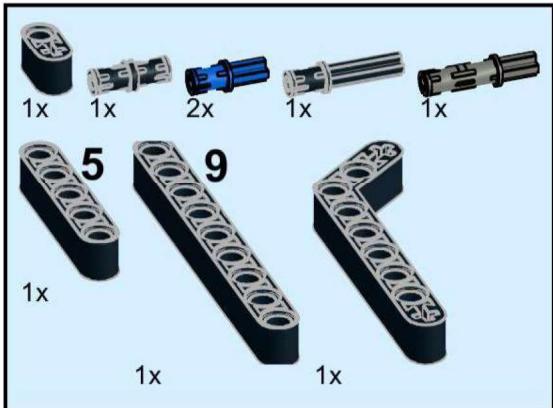


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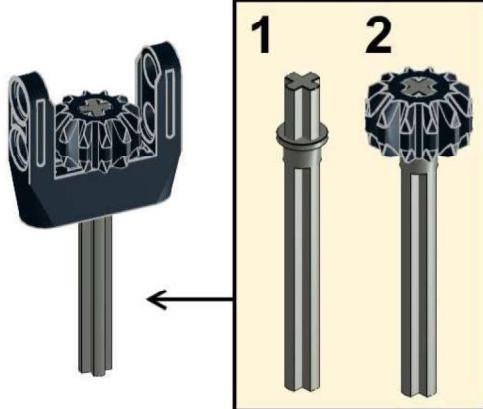
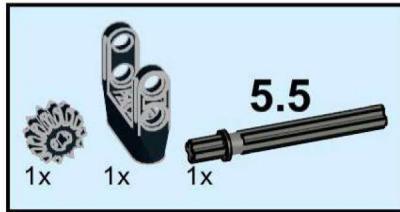
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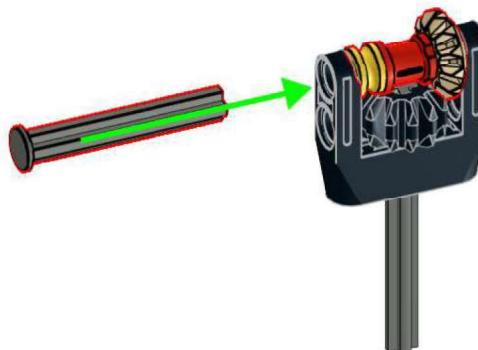
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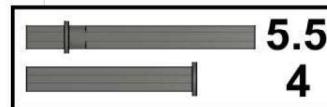
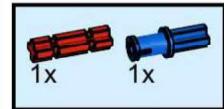
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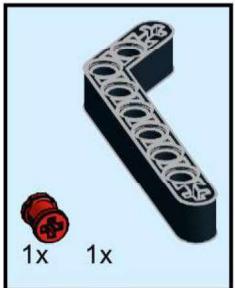
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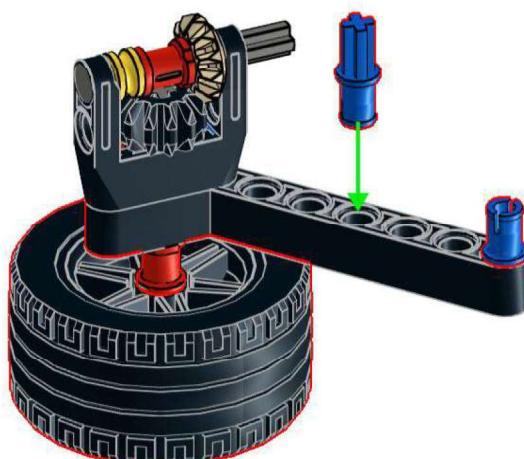
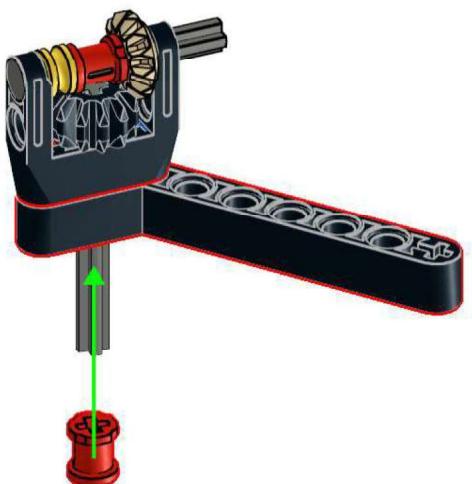
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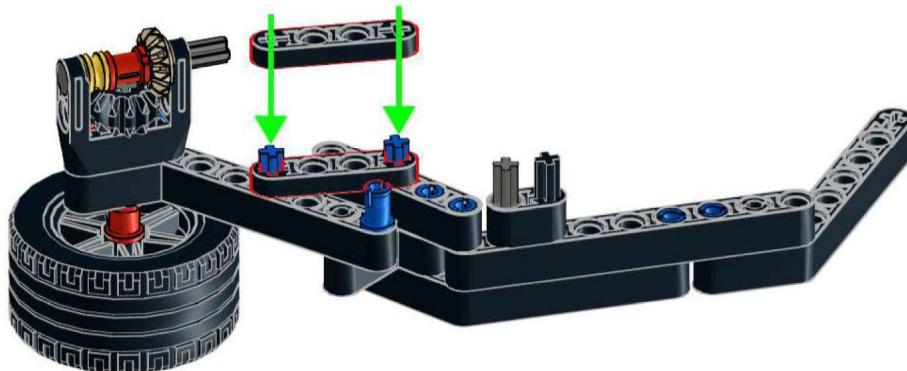
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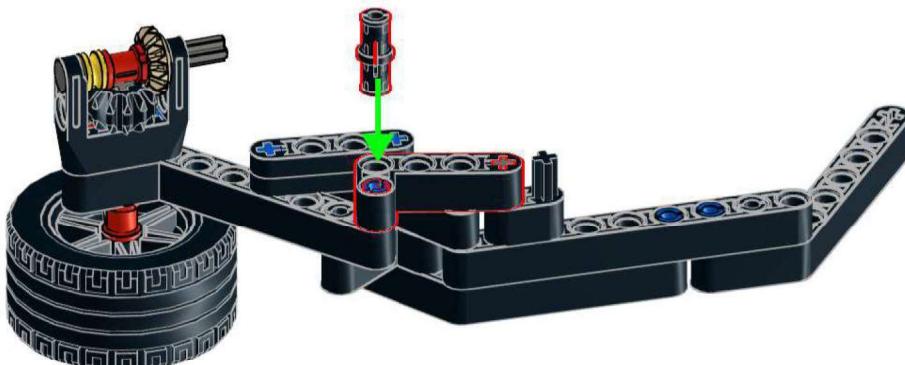
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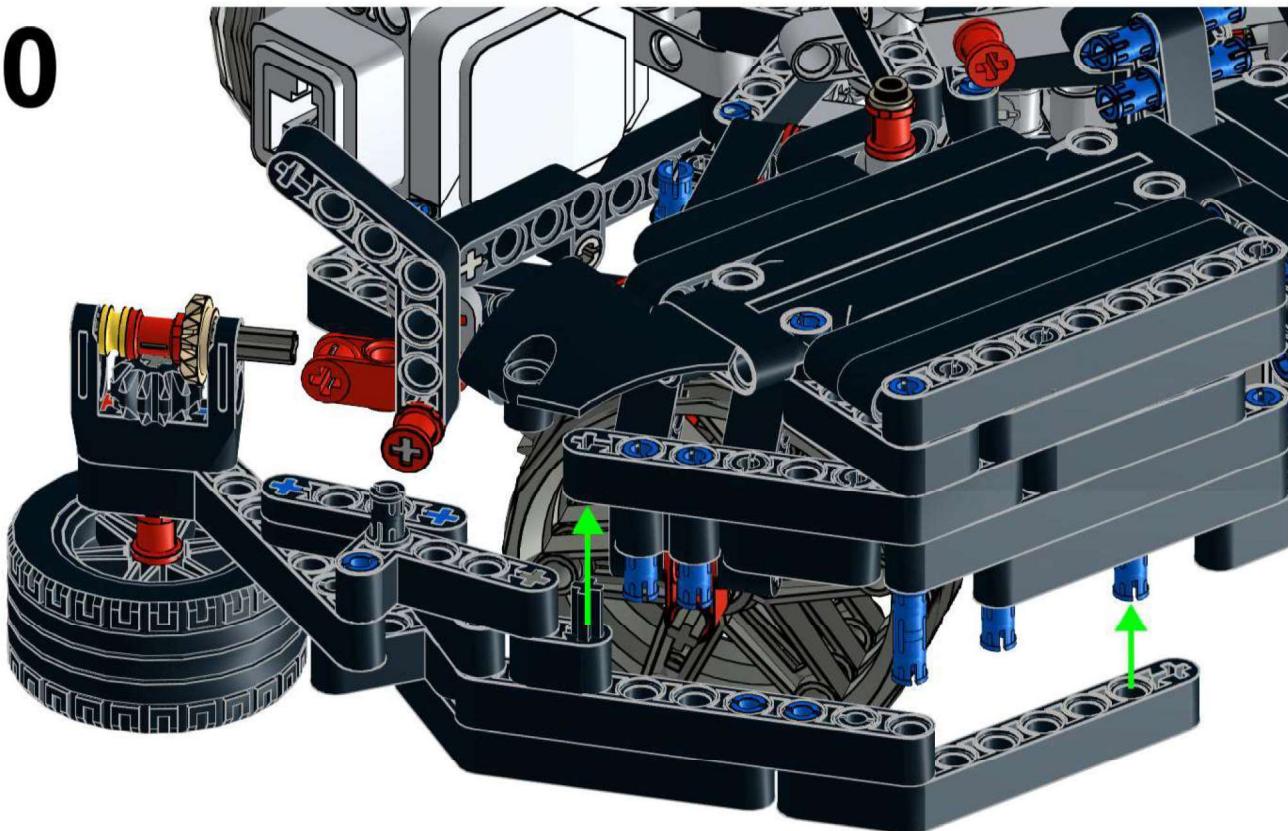
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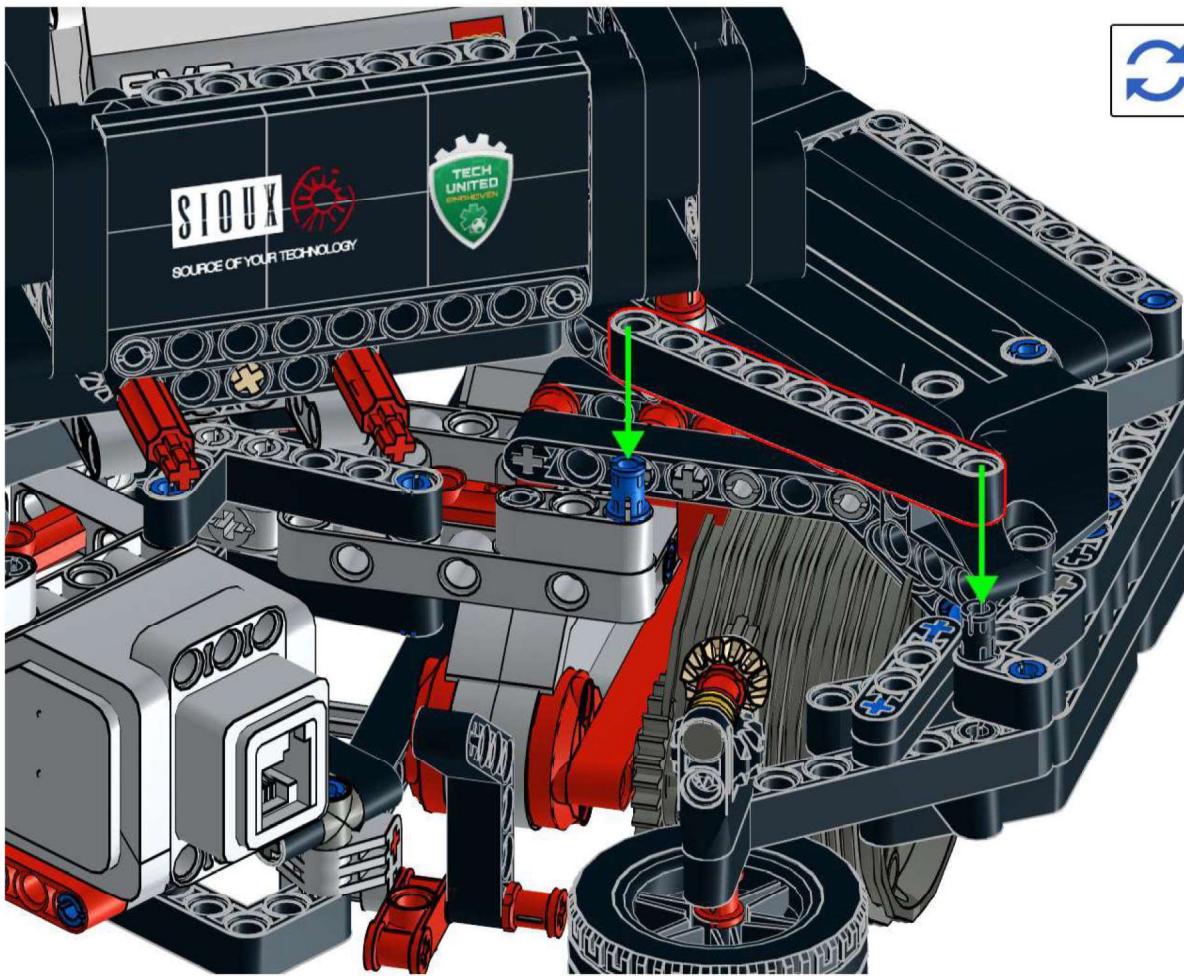
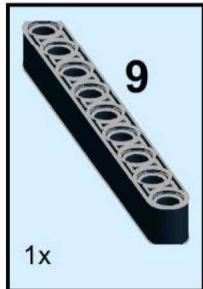


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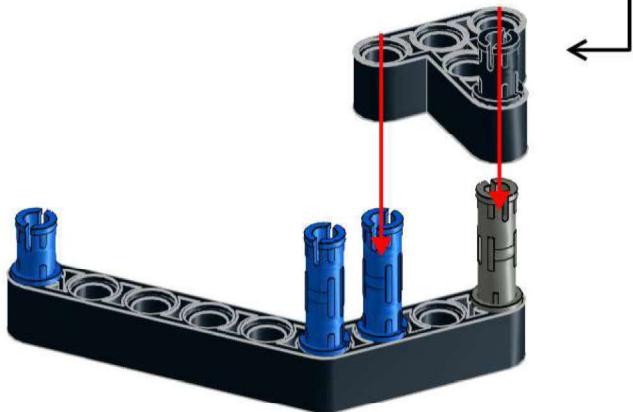
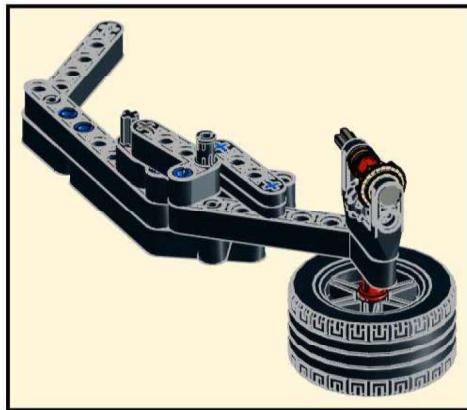
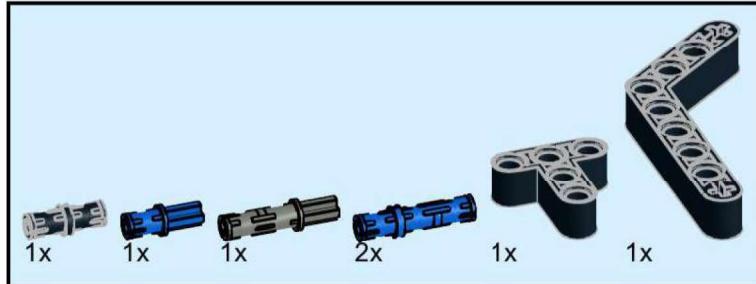


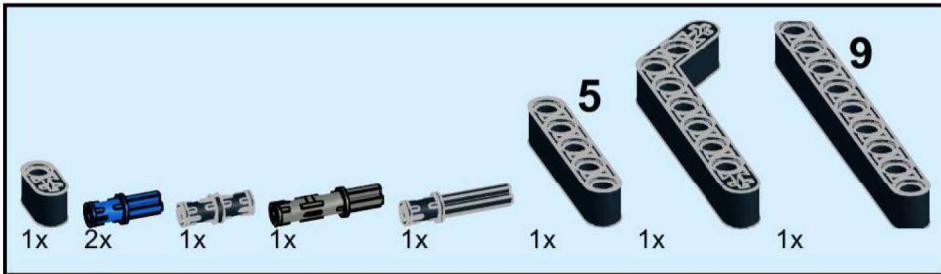


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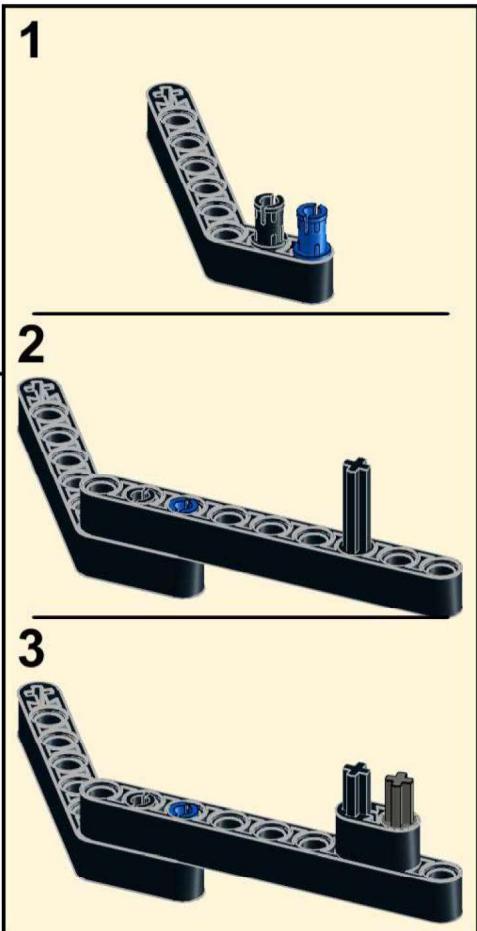
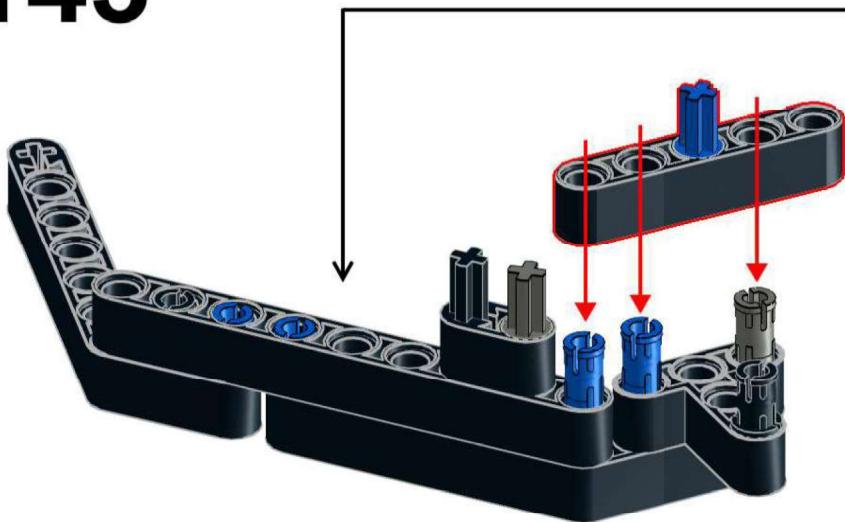


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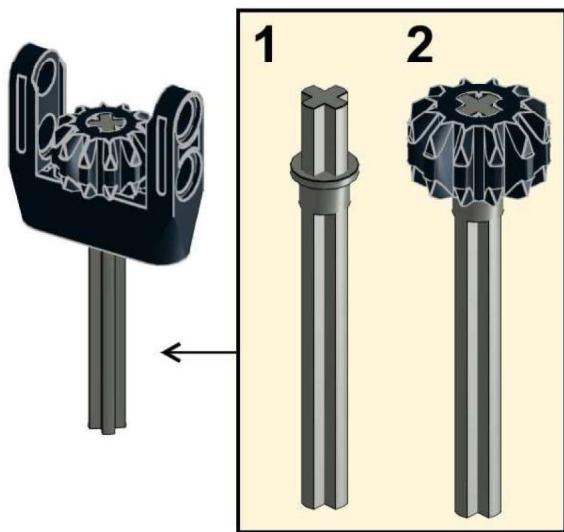
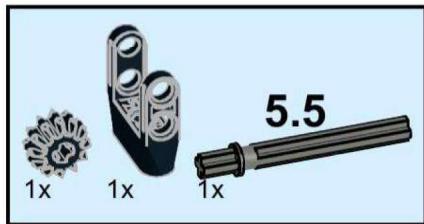




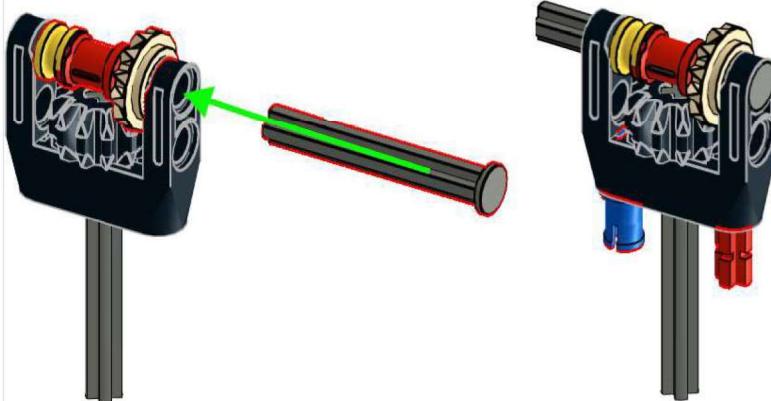
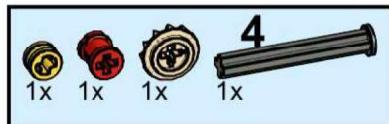
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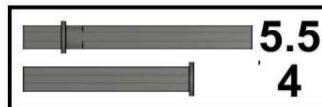
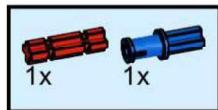
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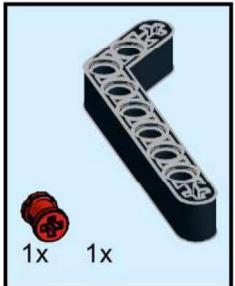
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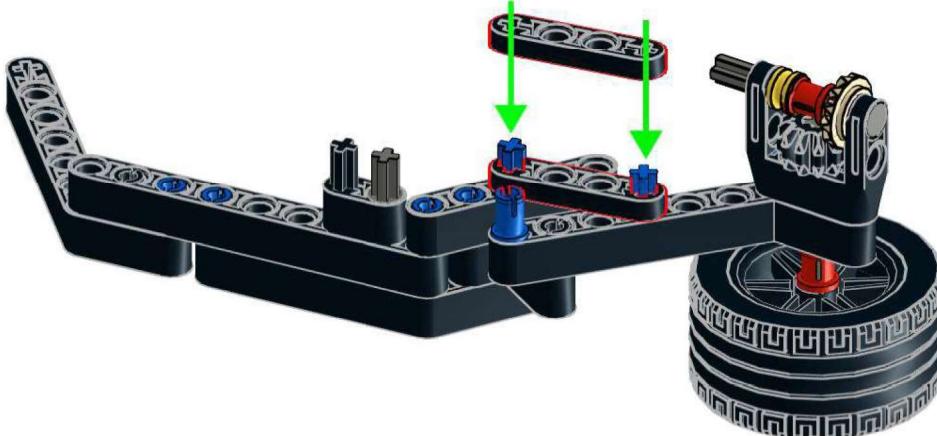
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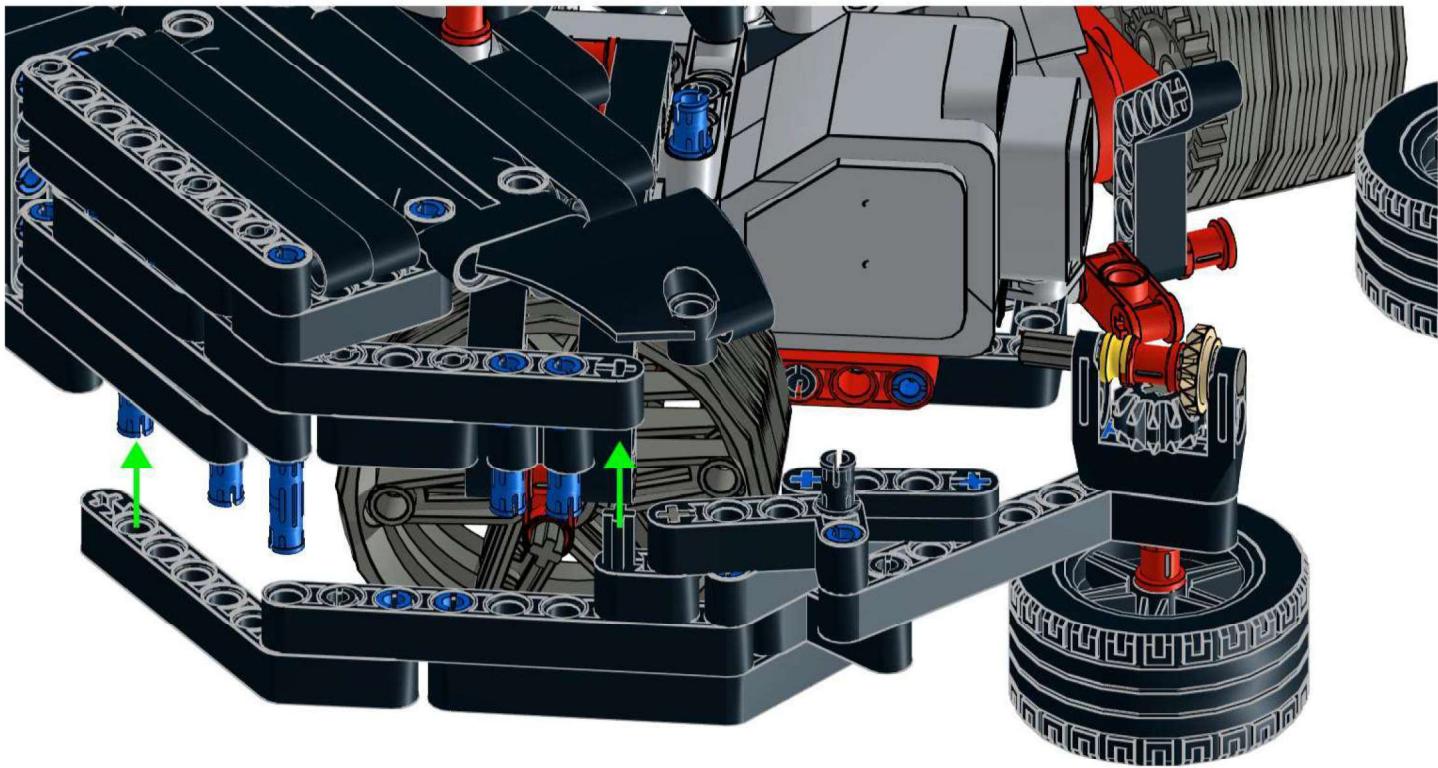


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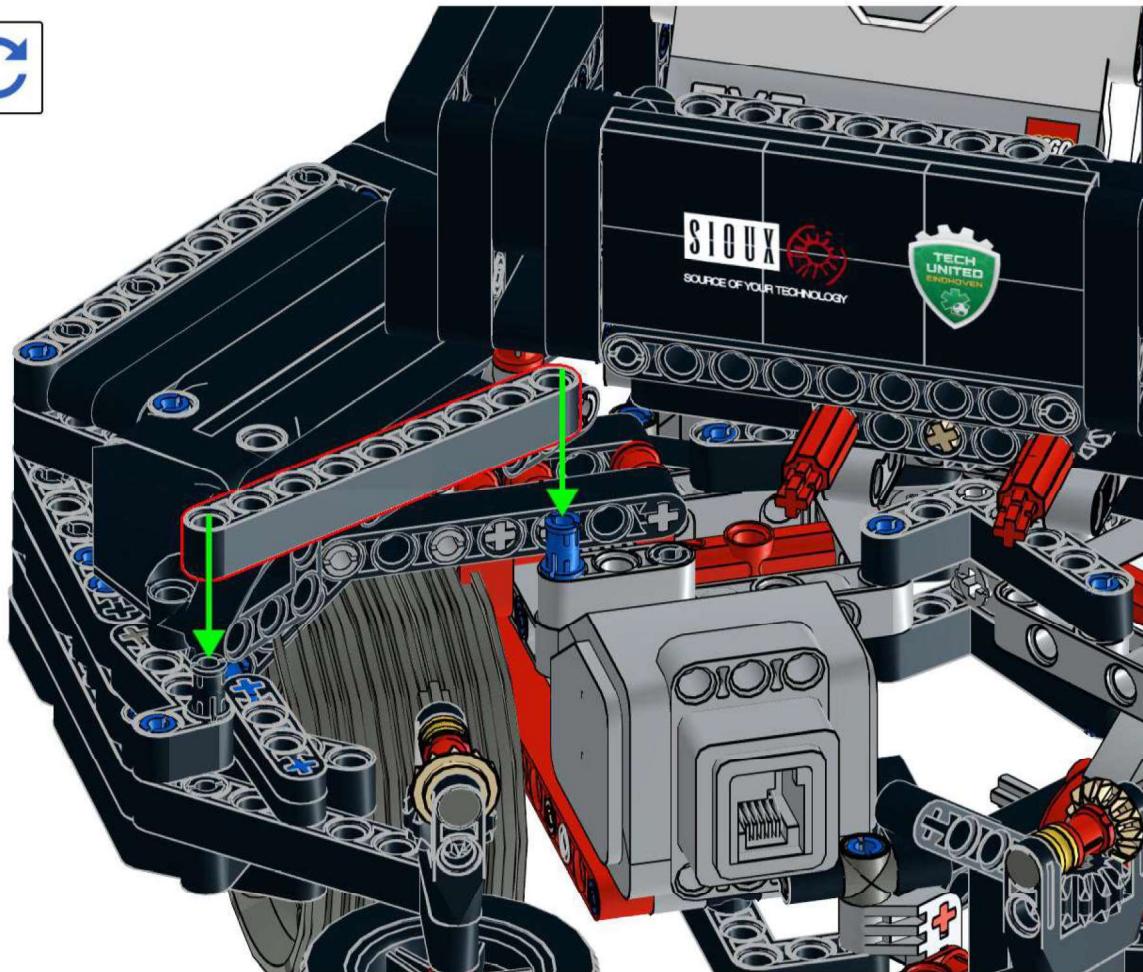
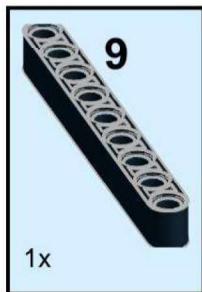
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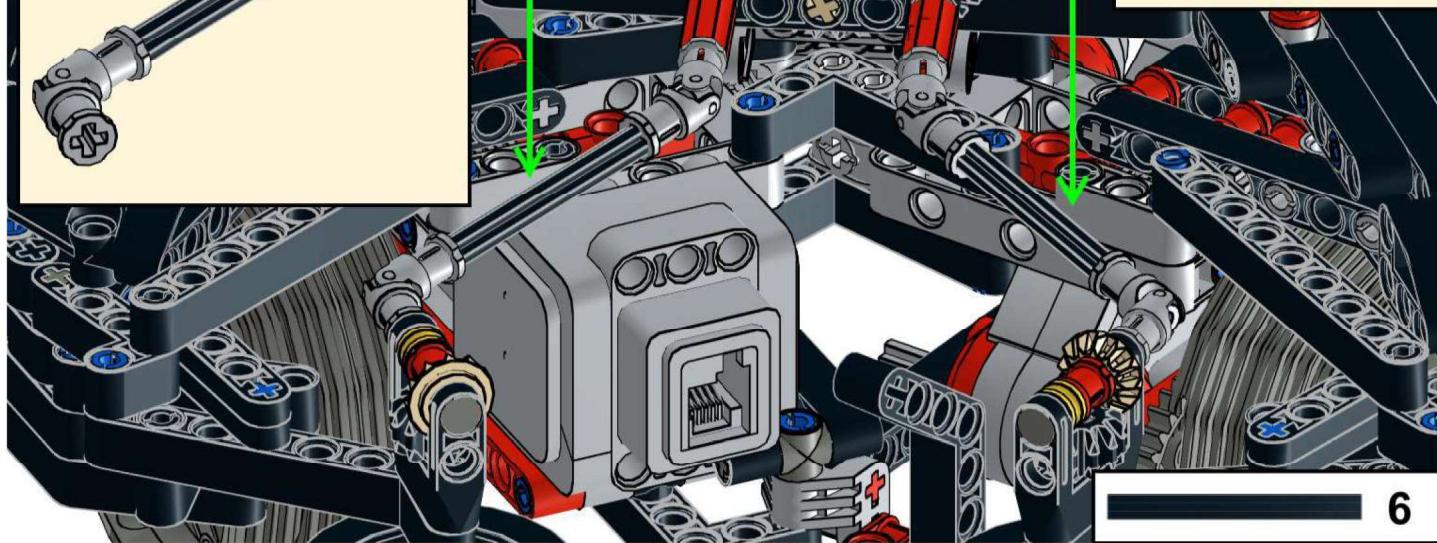
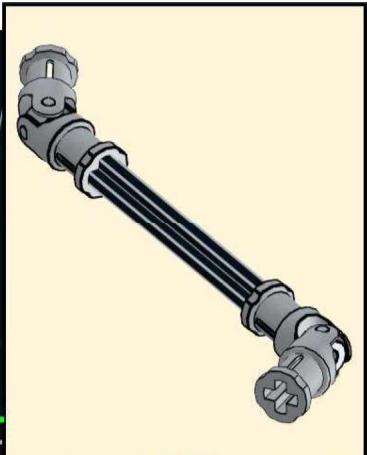
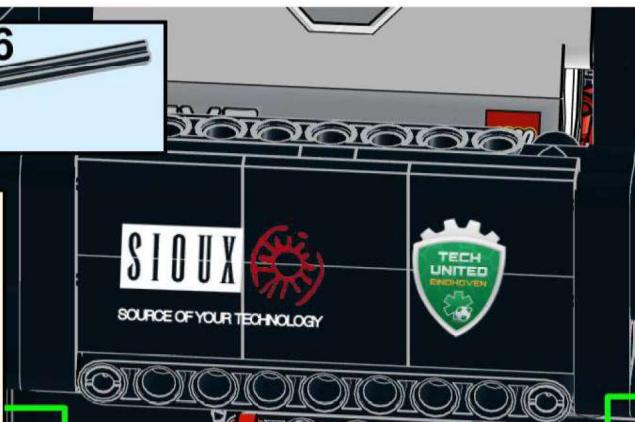
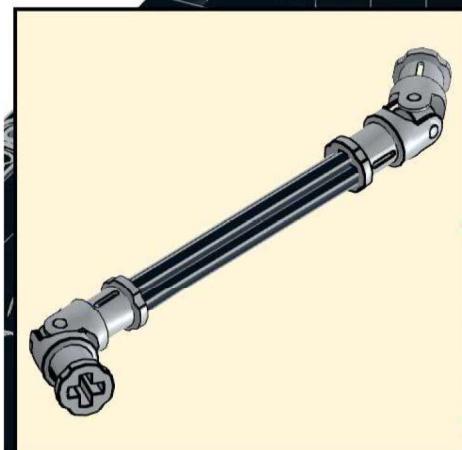


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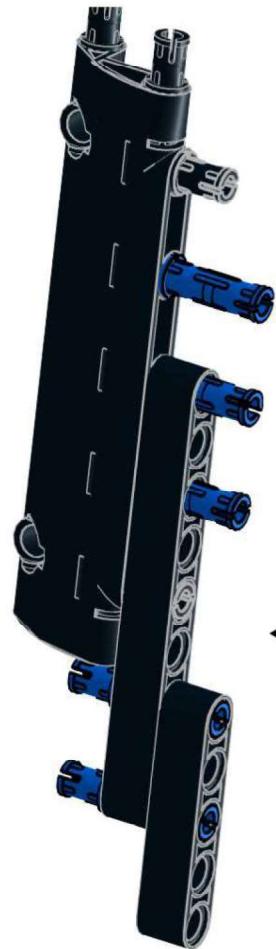
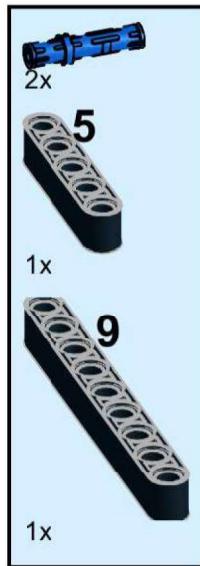
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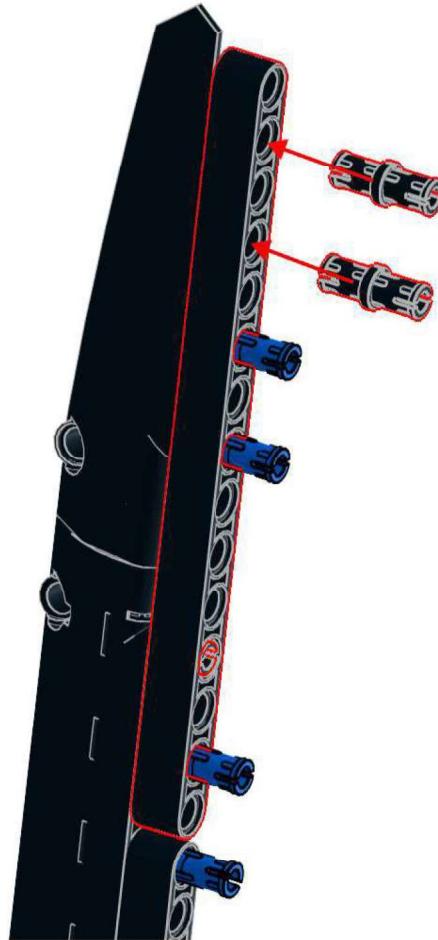
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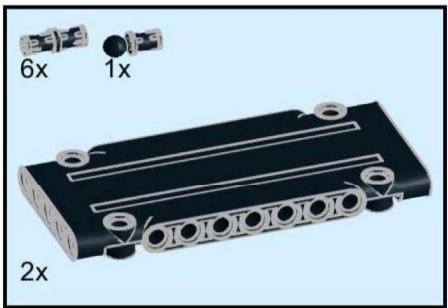


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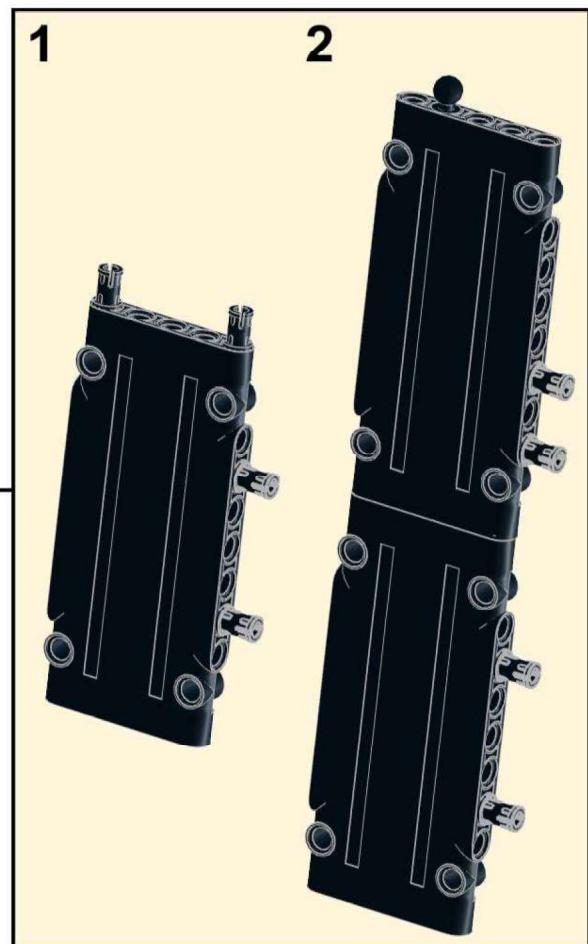
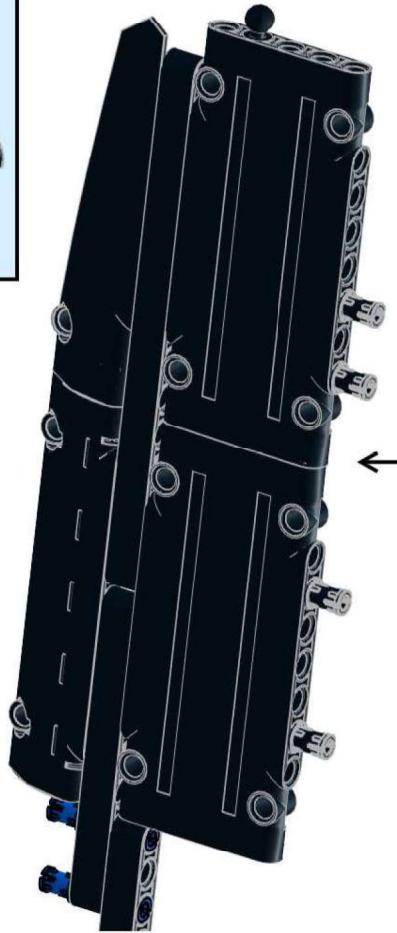


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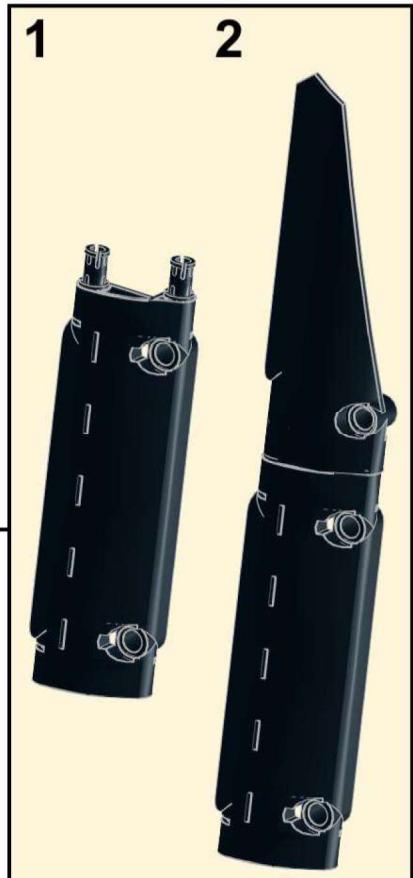
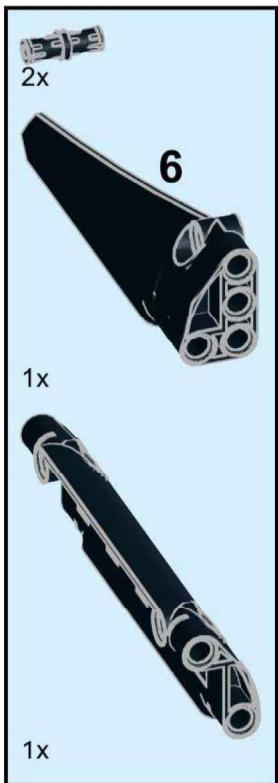




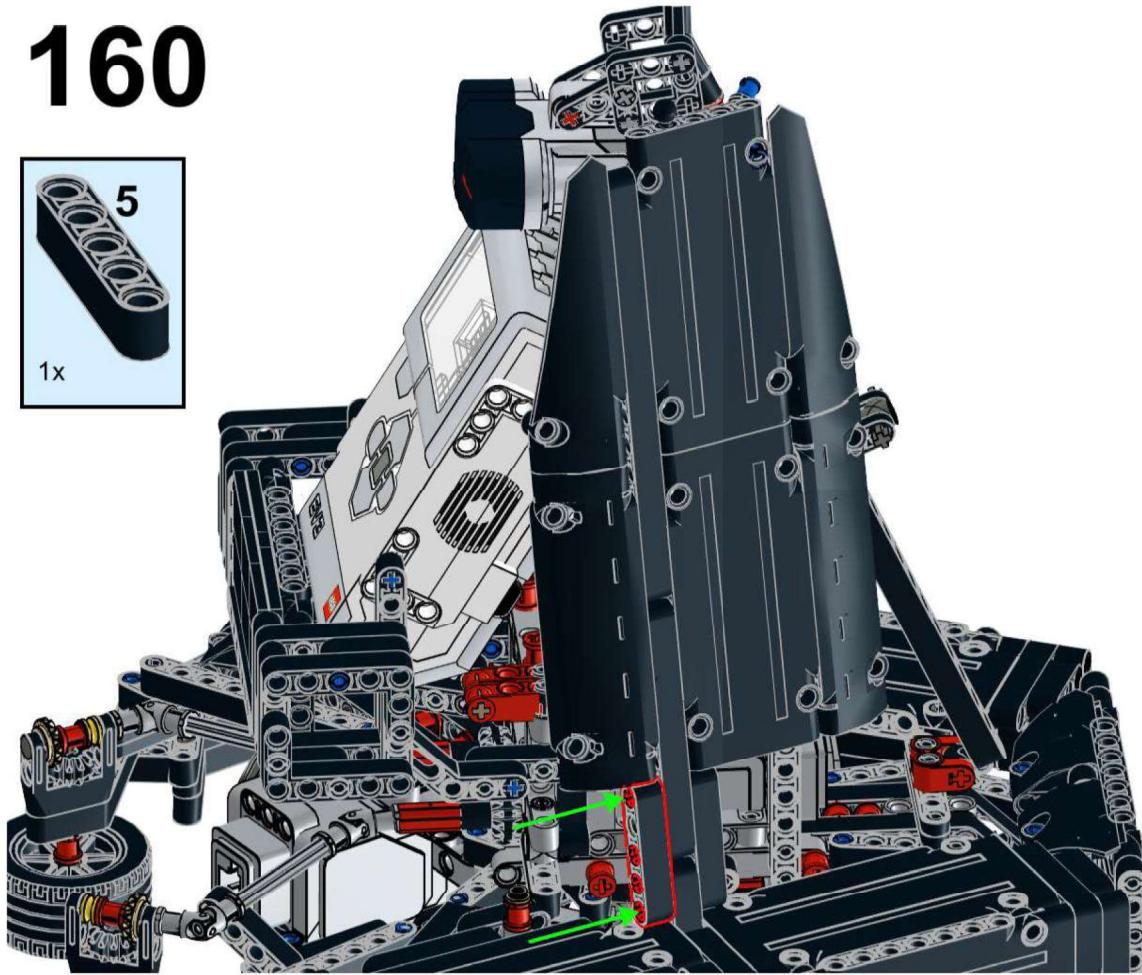
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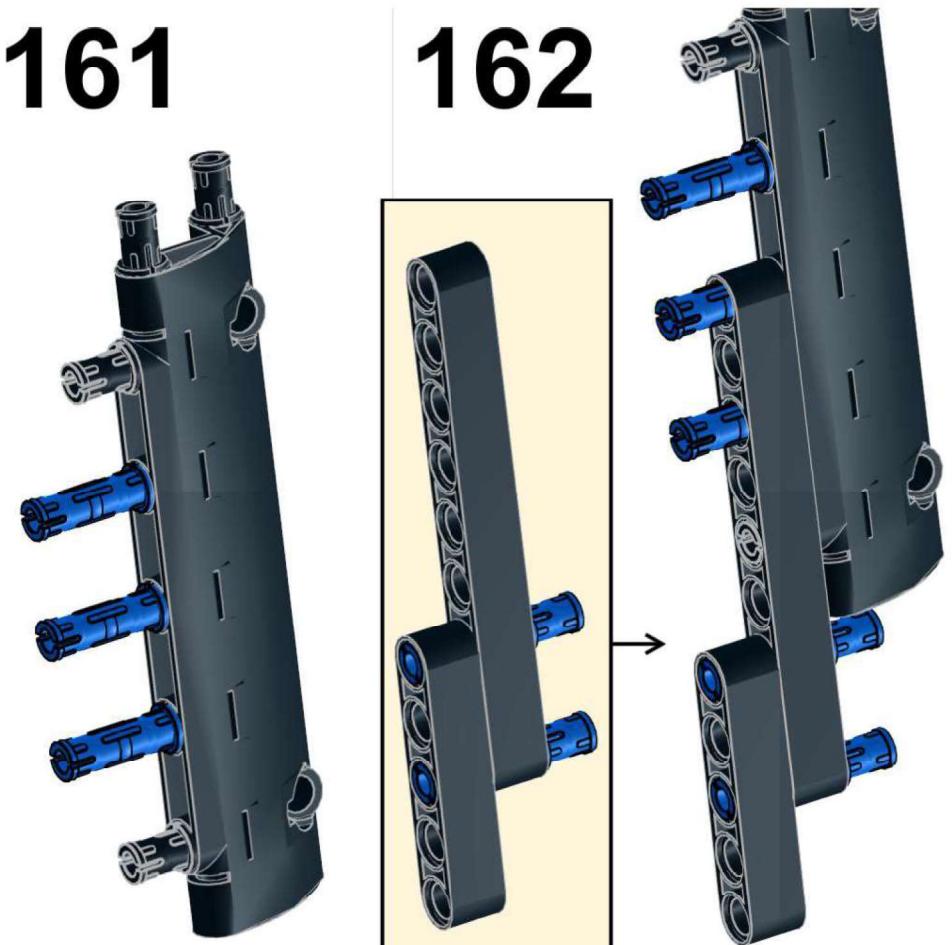
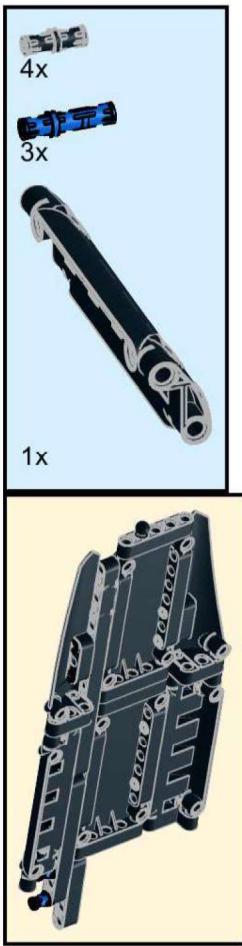


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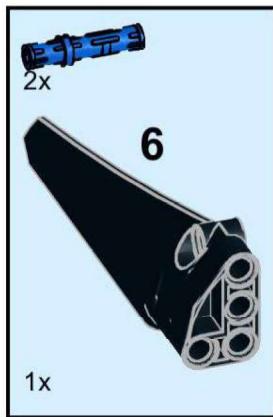


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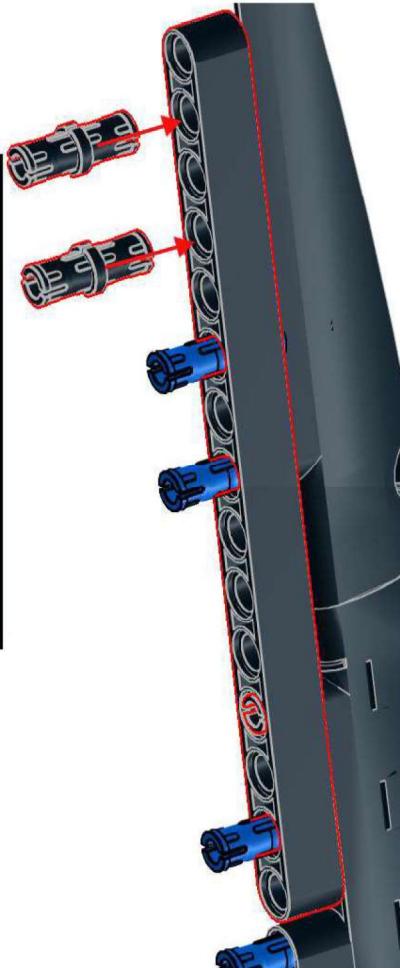




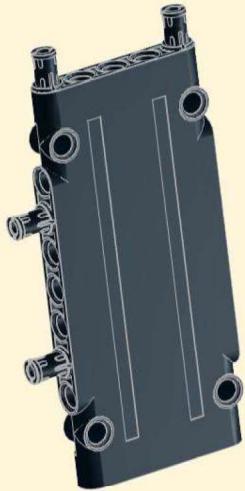
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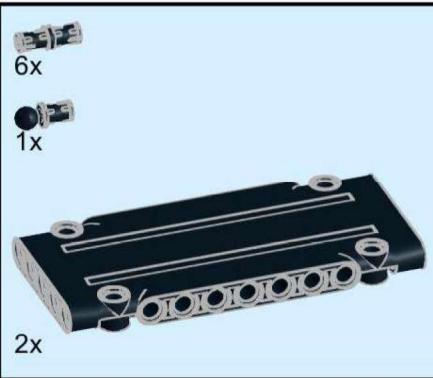
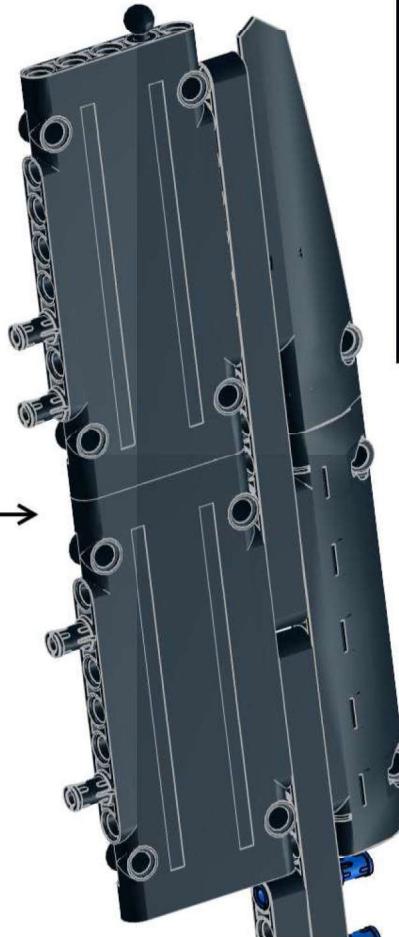
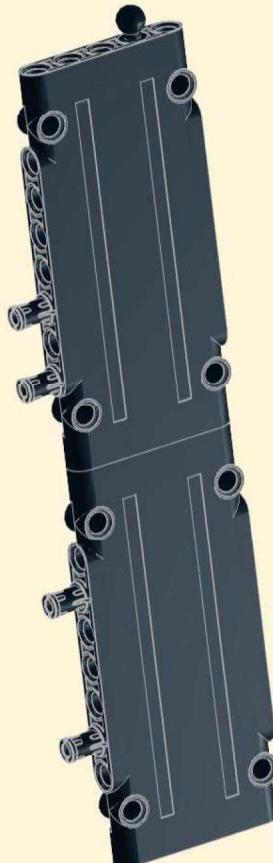
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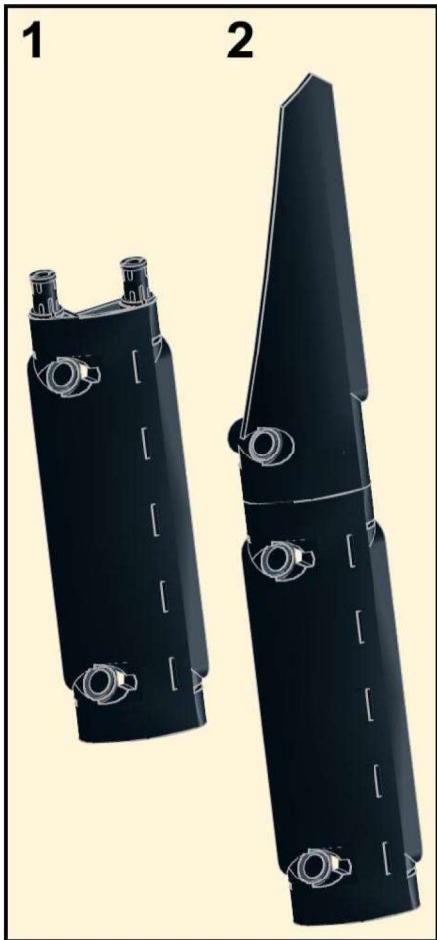
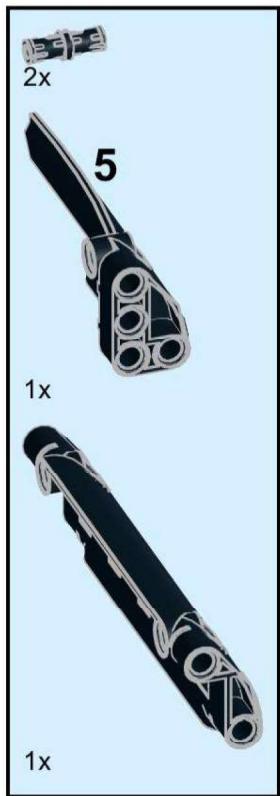


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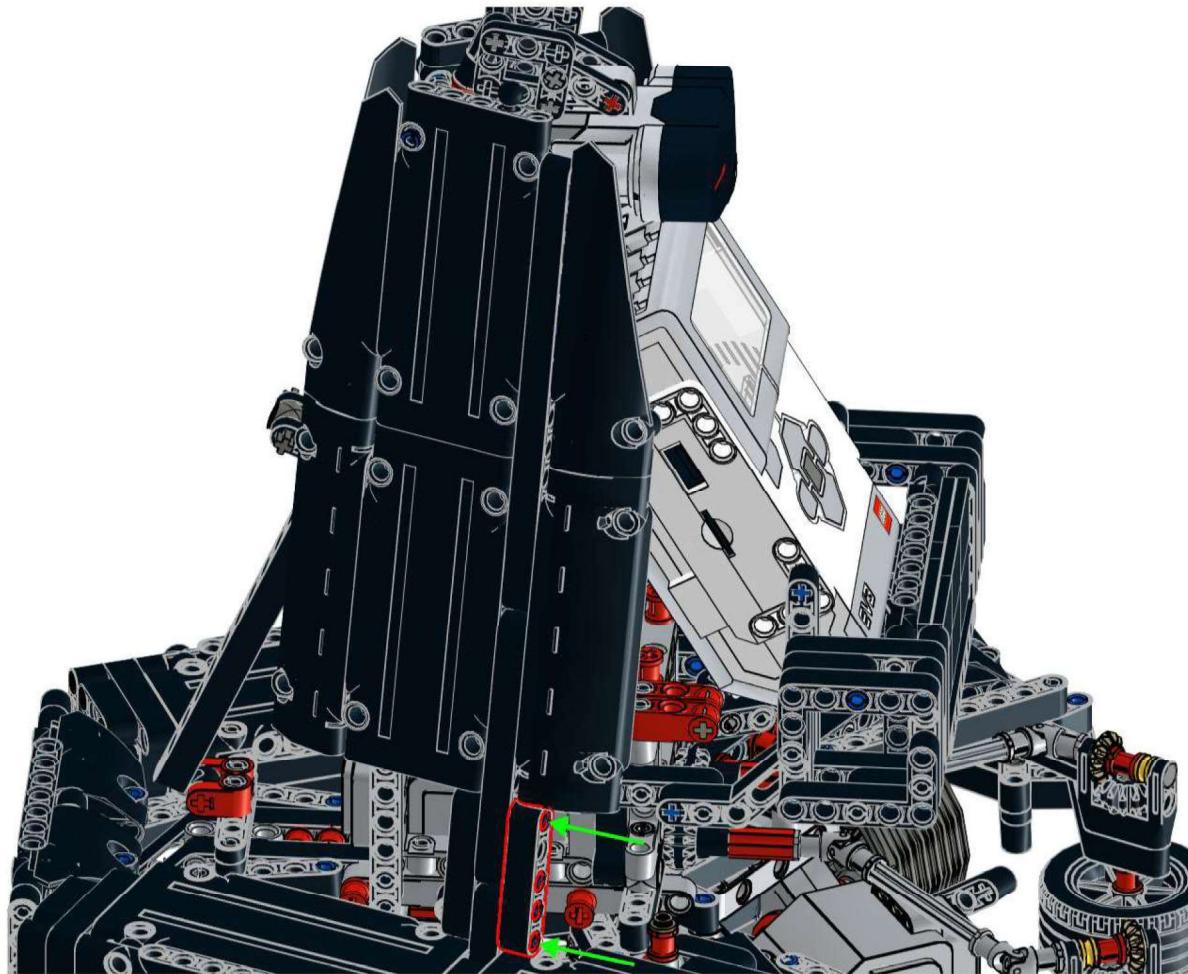


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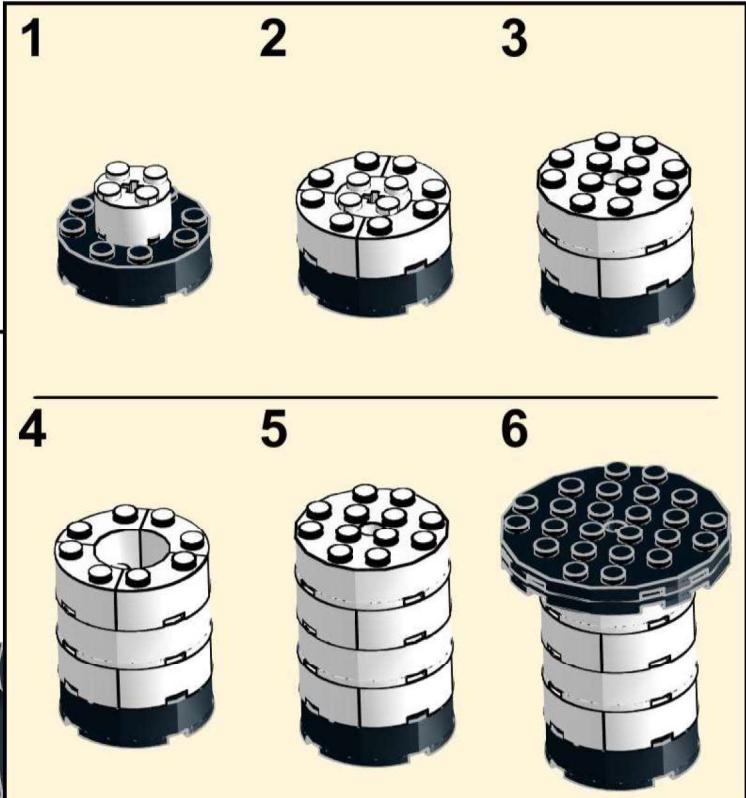
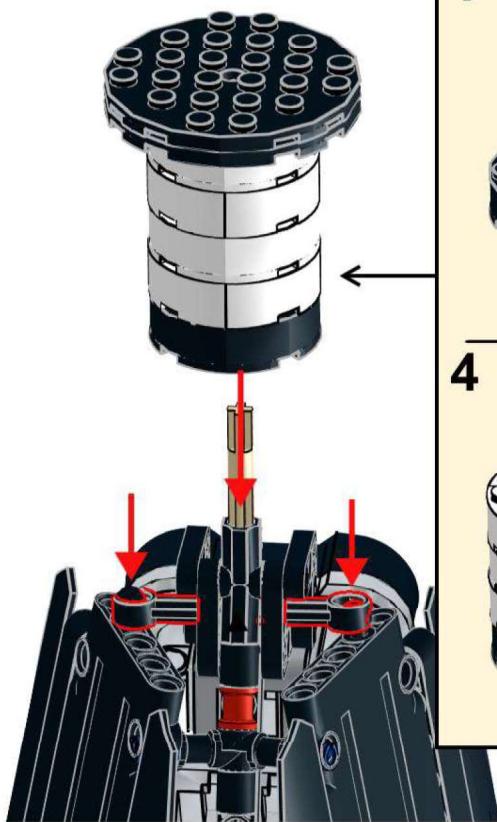
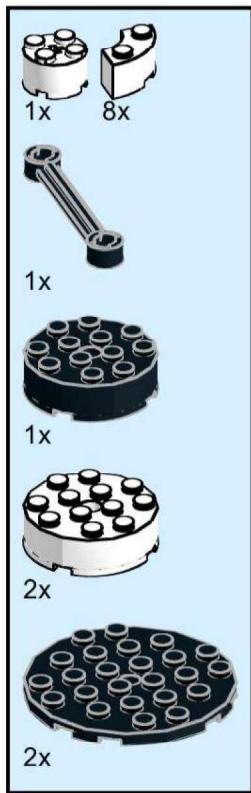
166



167



168





An example program can be found at the website: www.toypro.com/siouxsoccerrobot



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