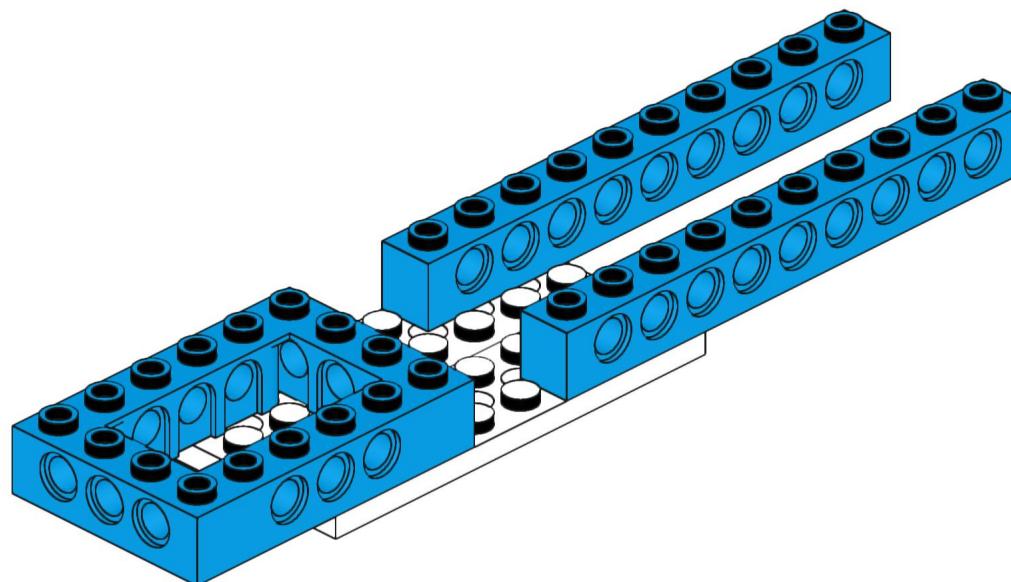
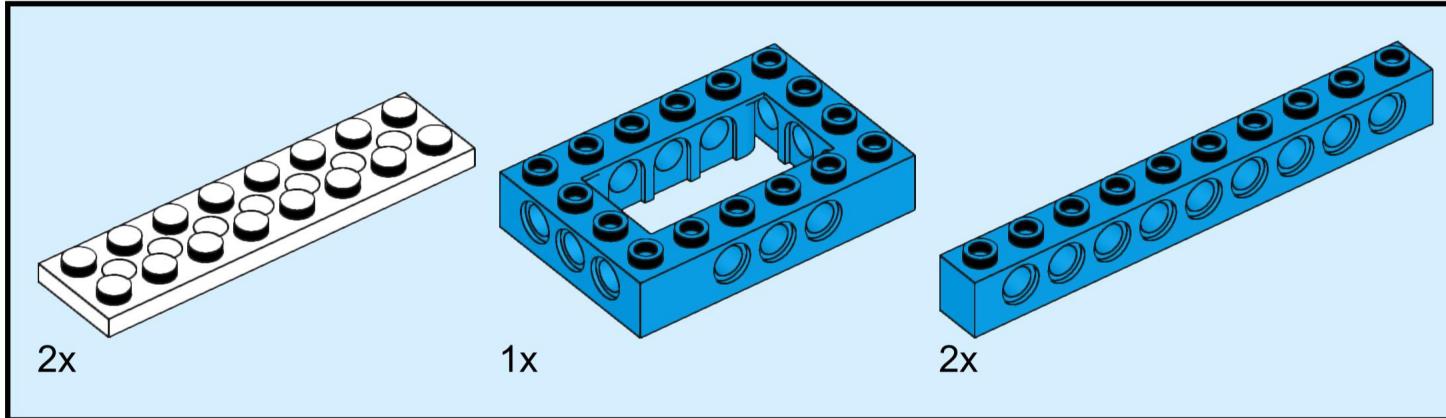
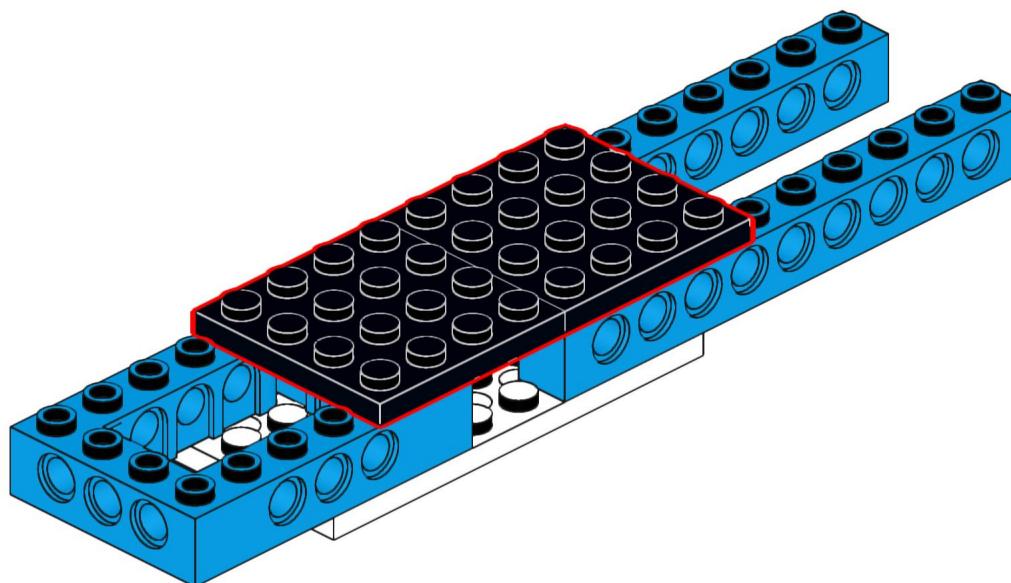
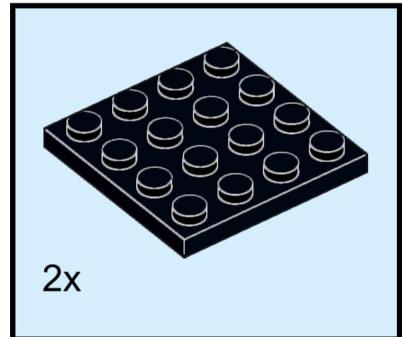


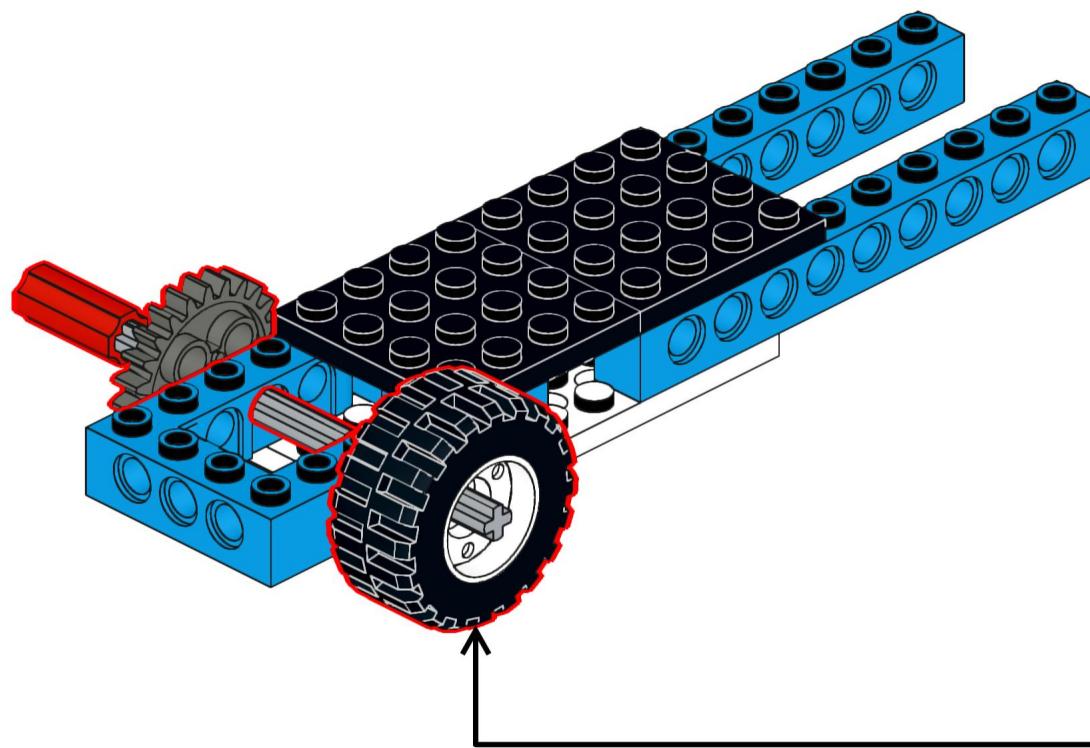
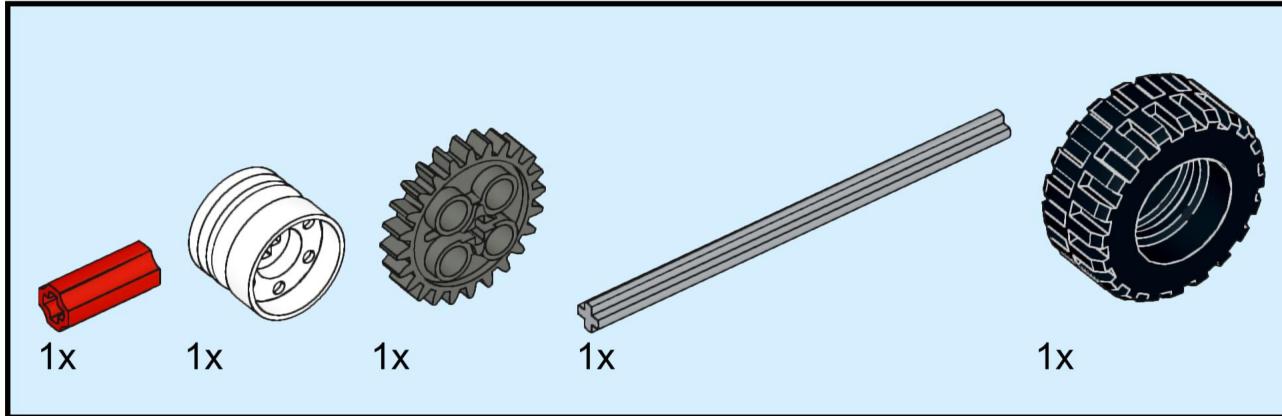
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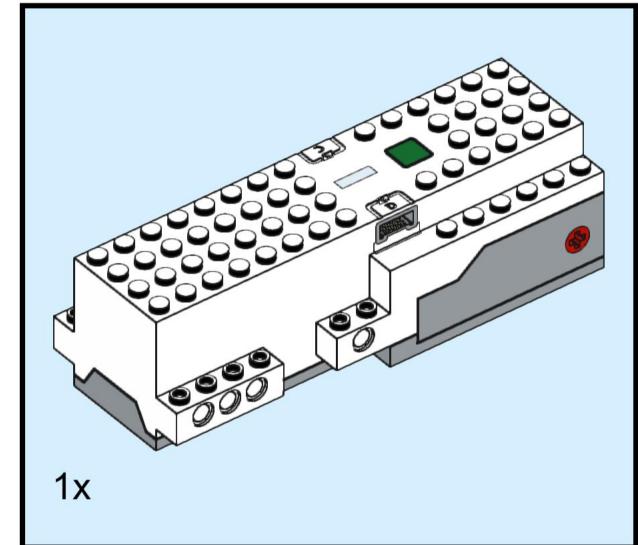
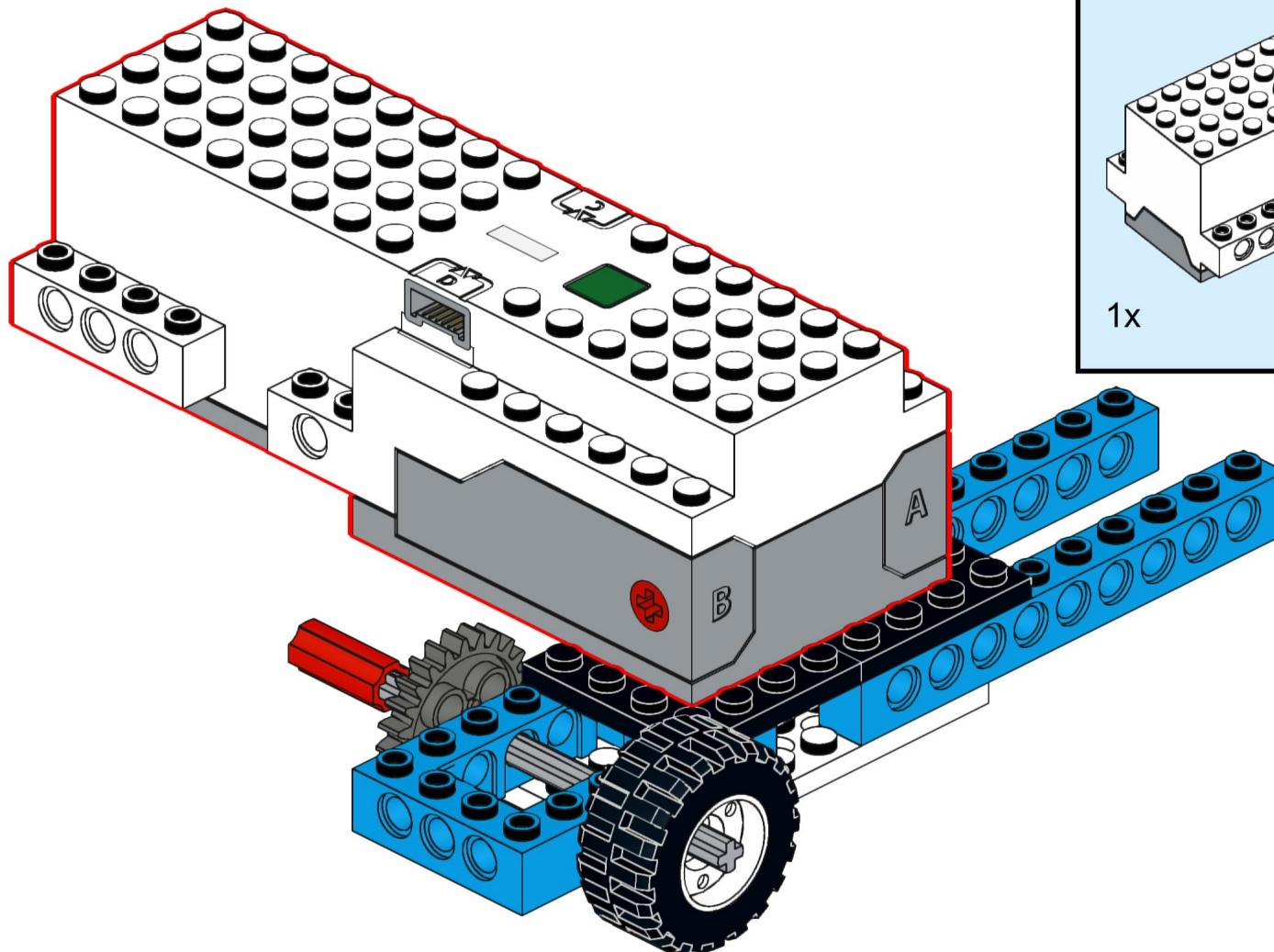
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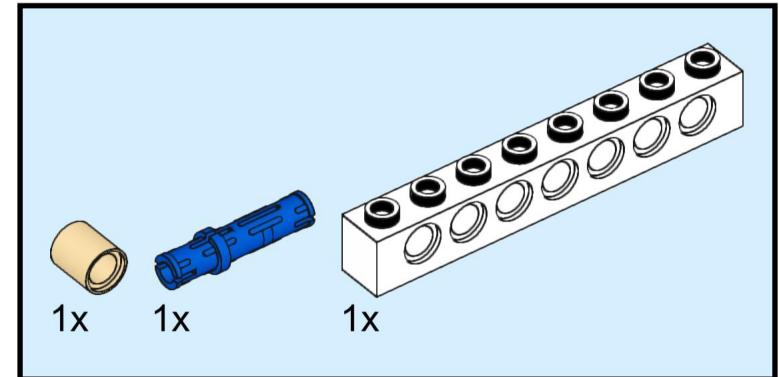
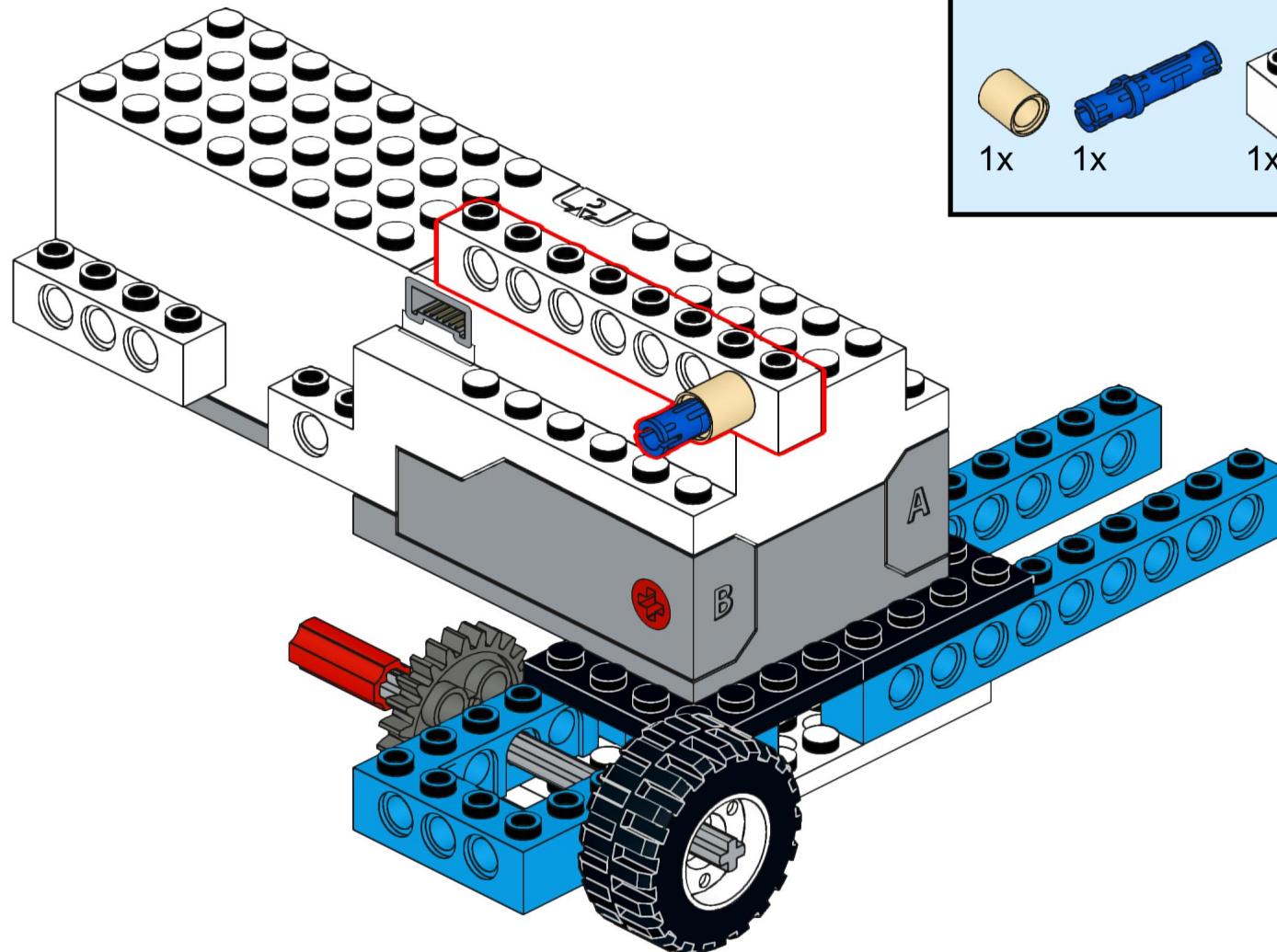
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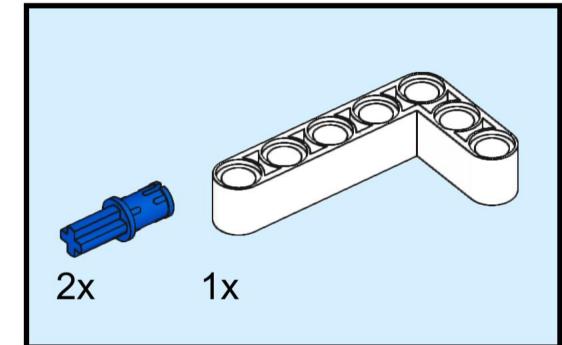
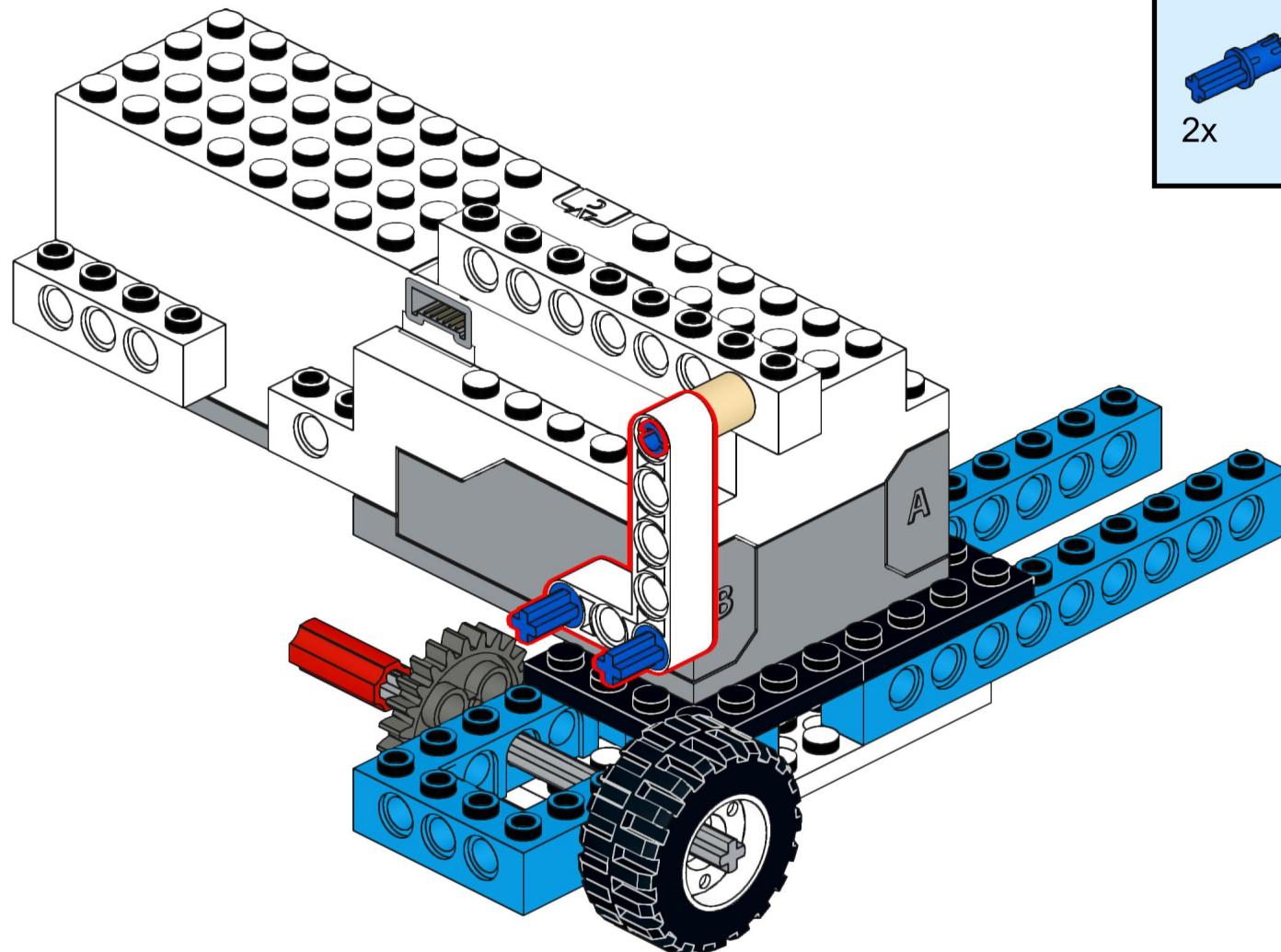
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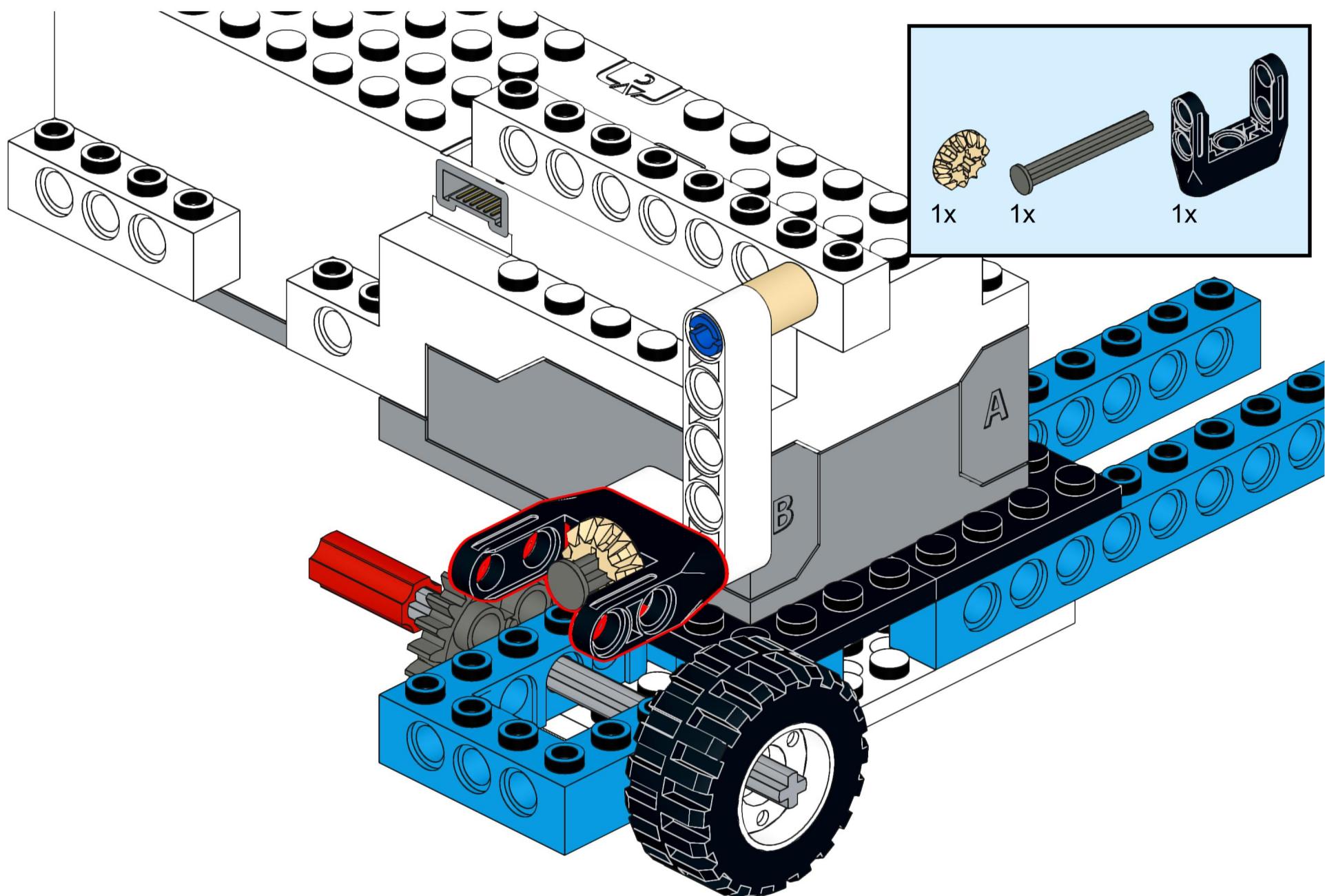
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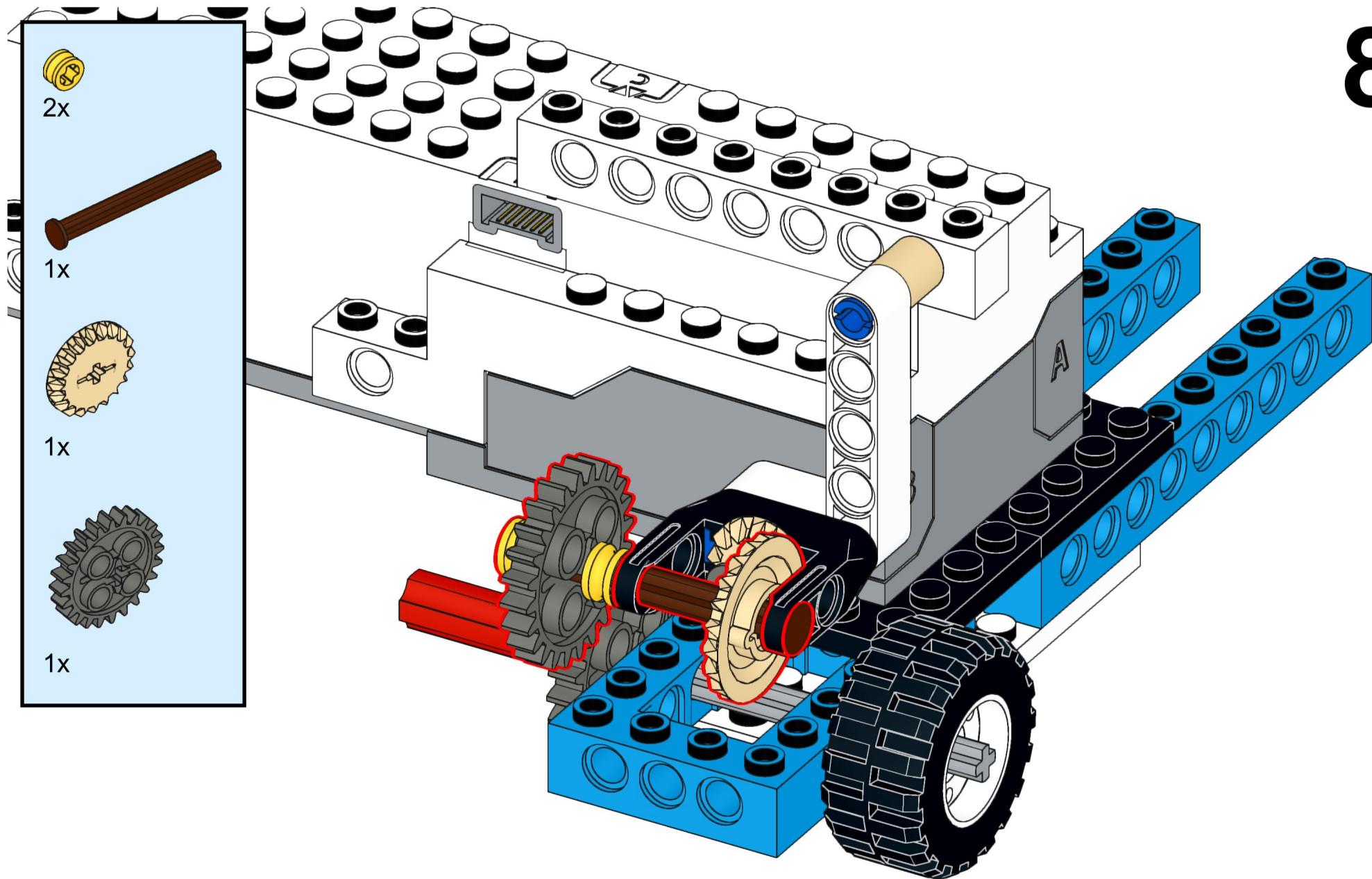
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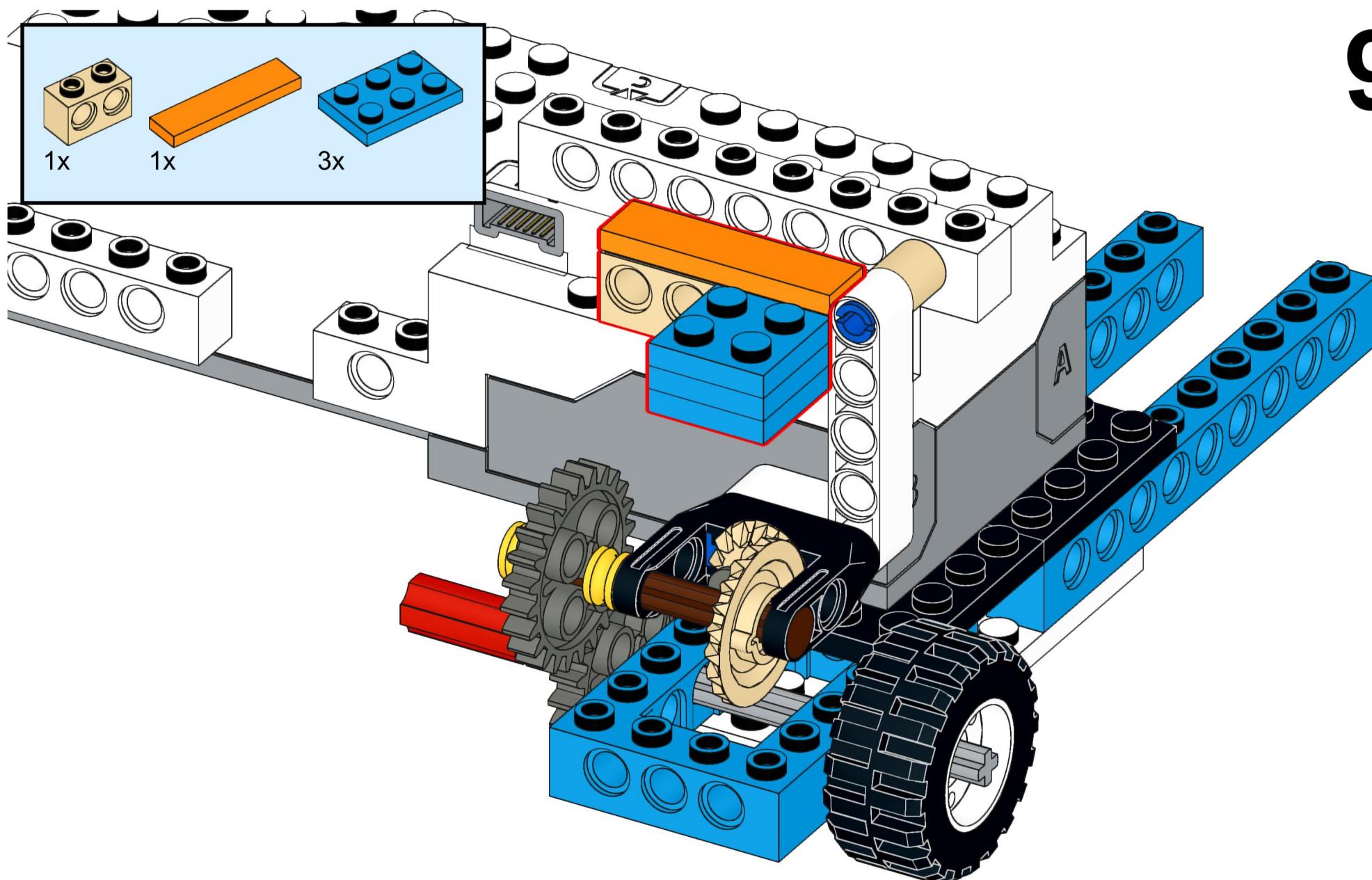
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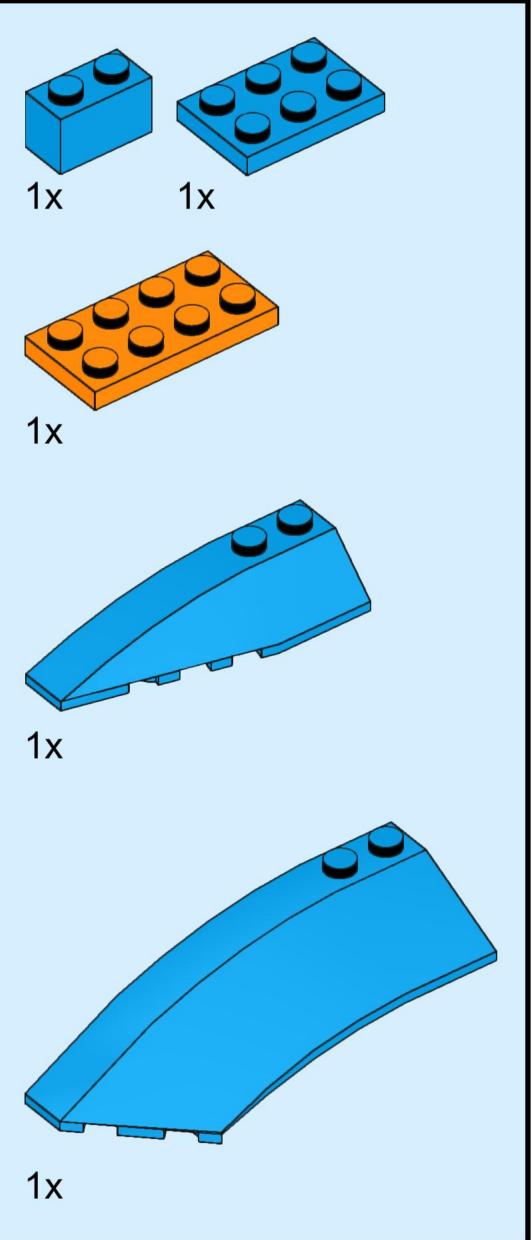
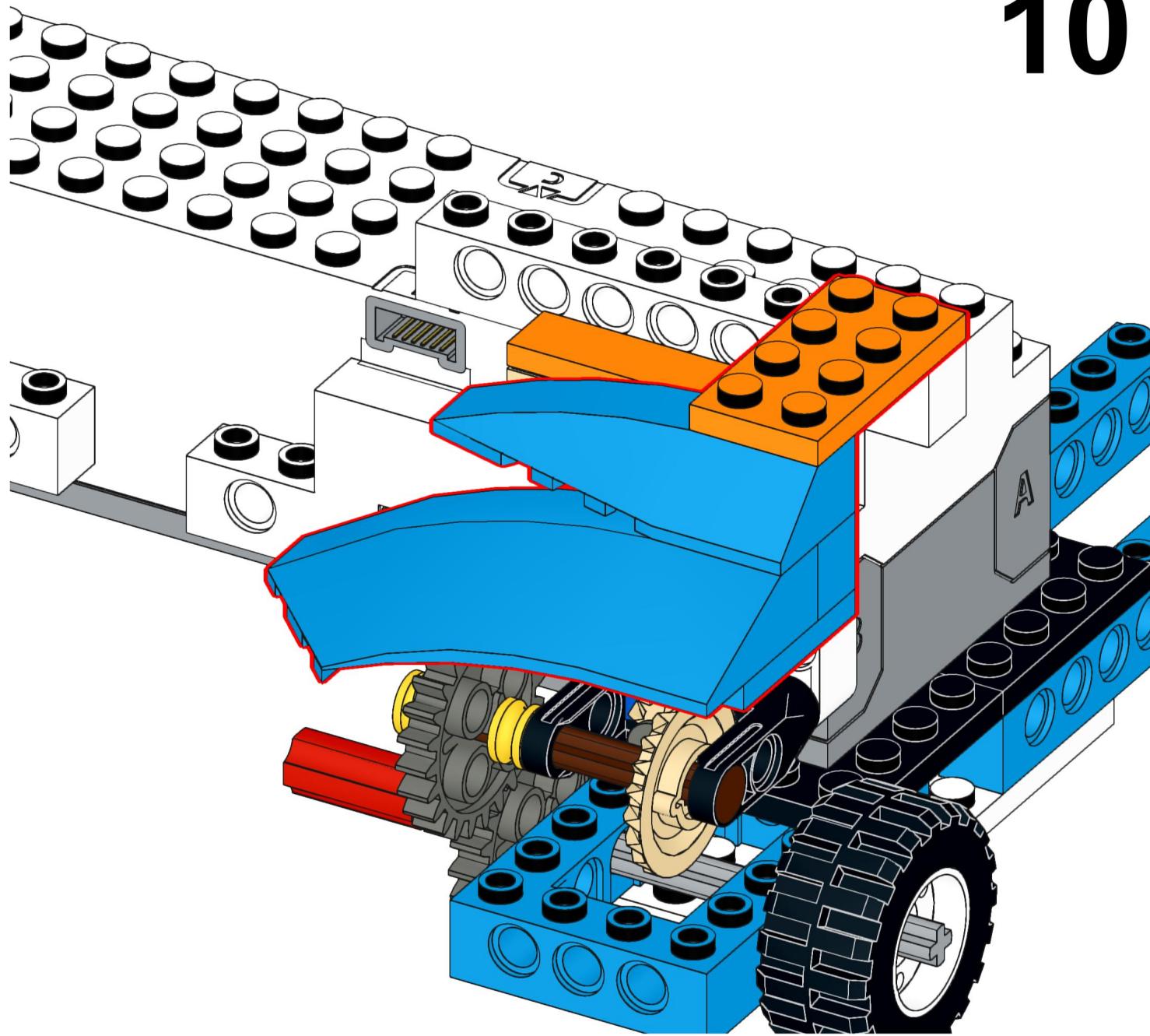
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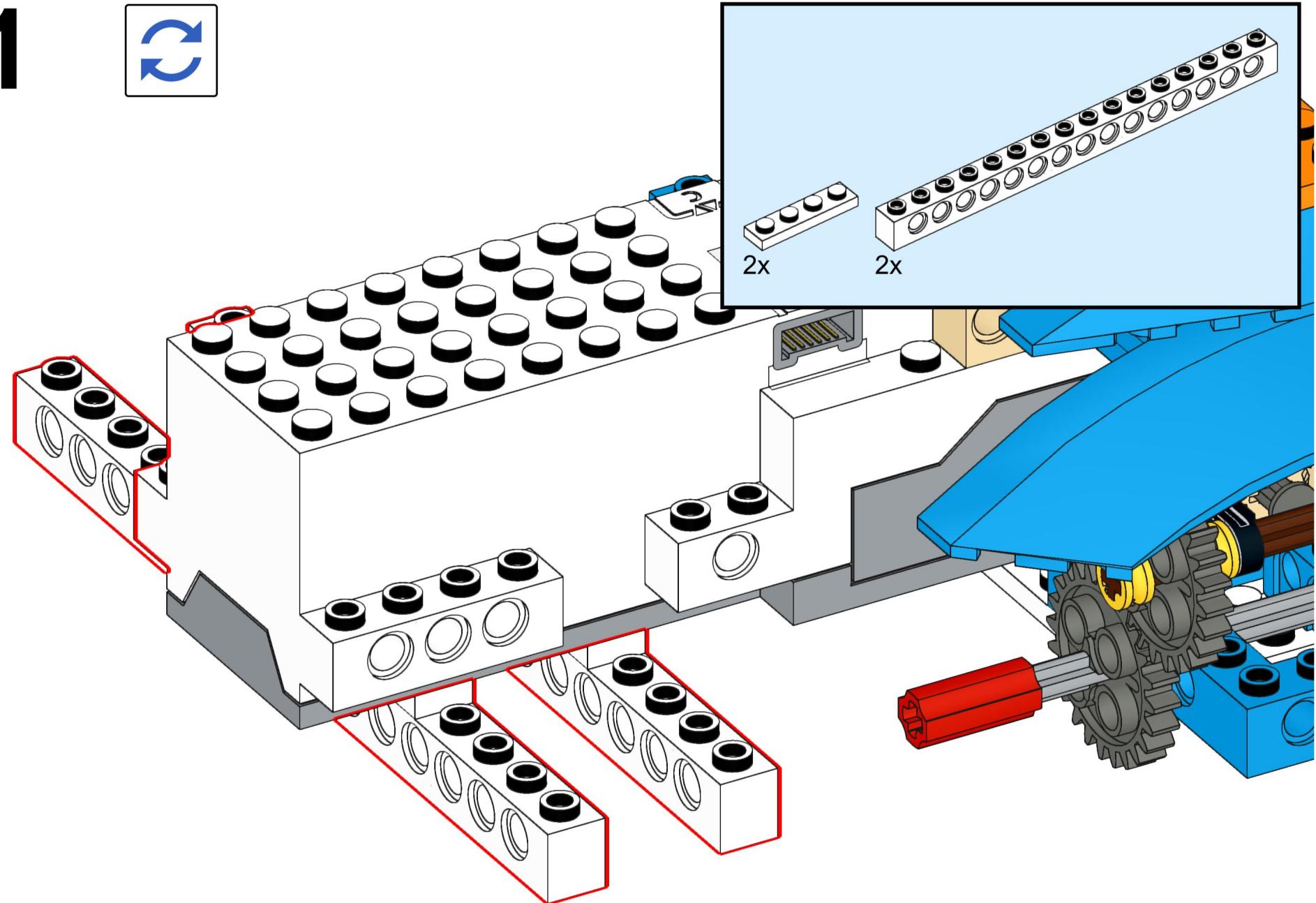
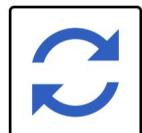
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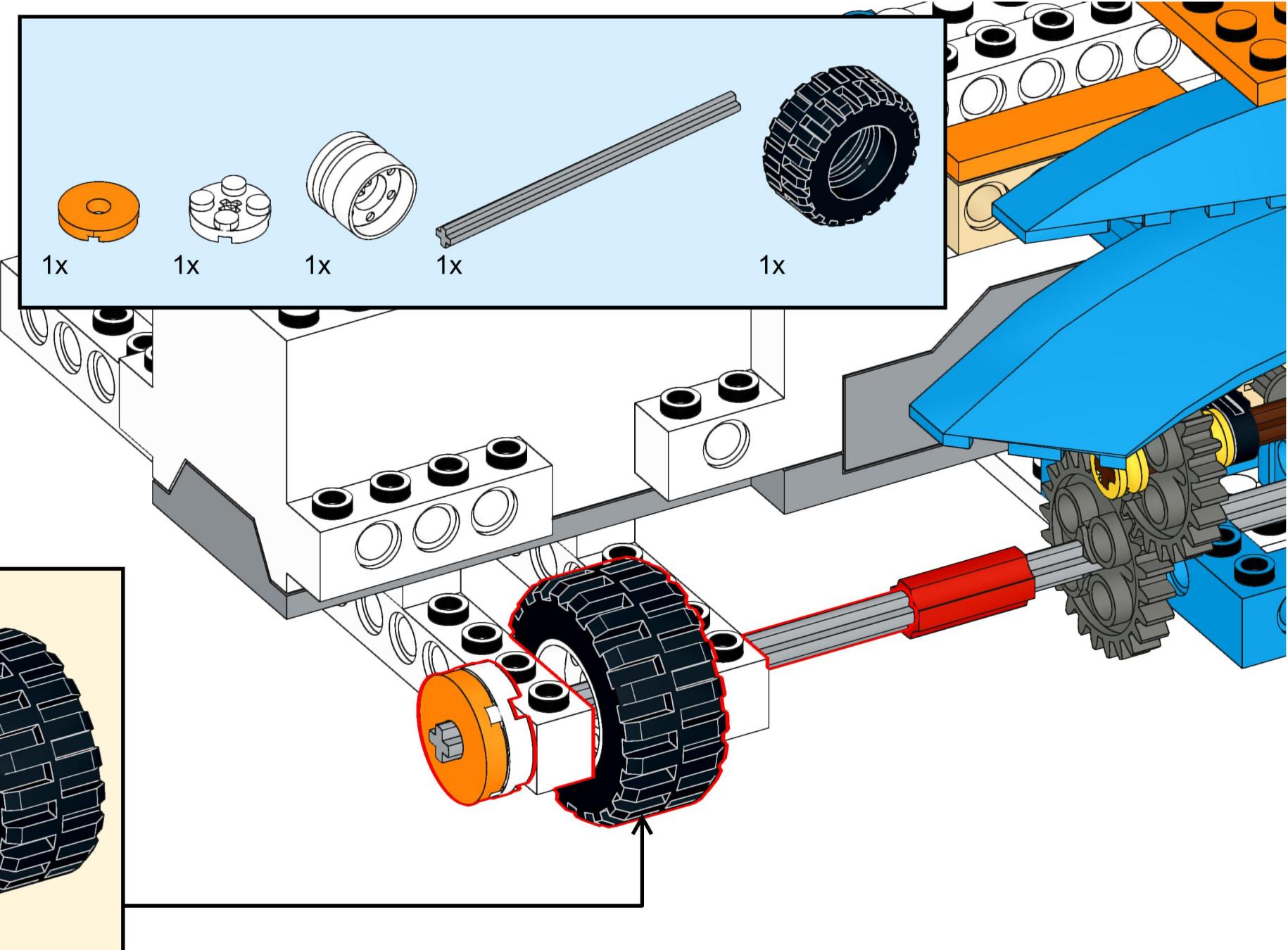
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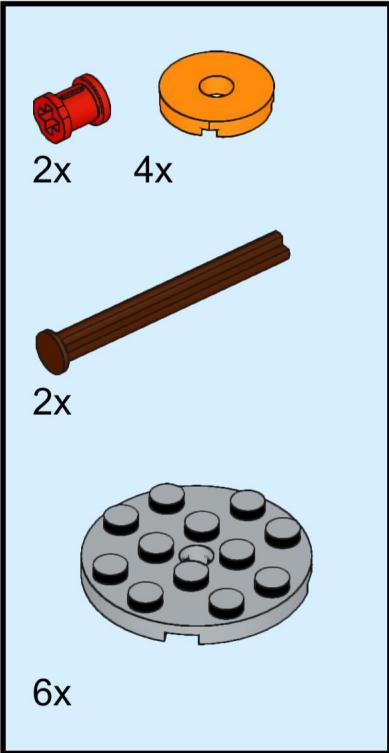


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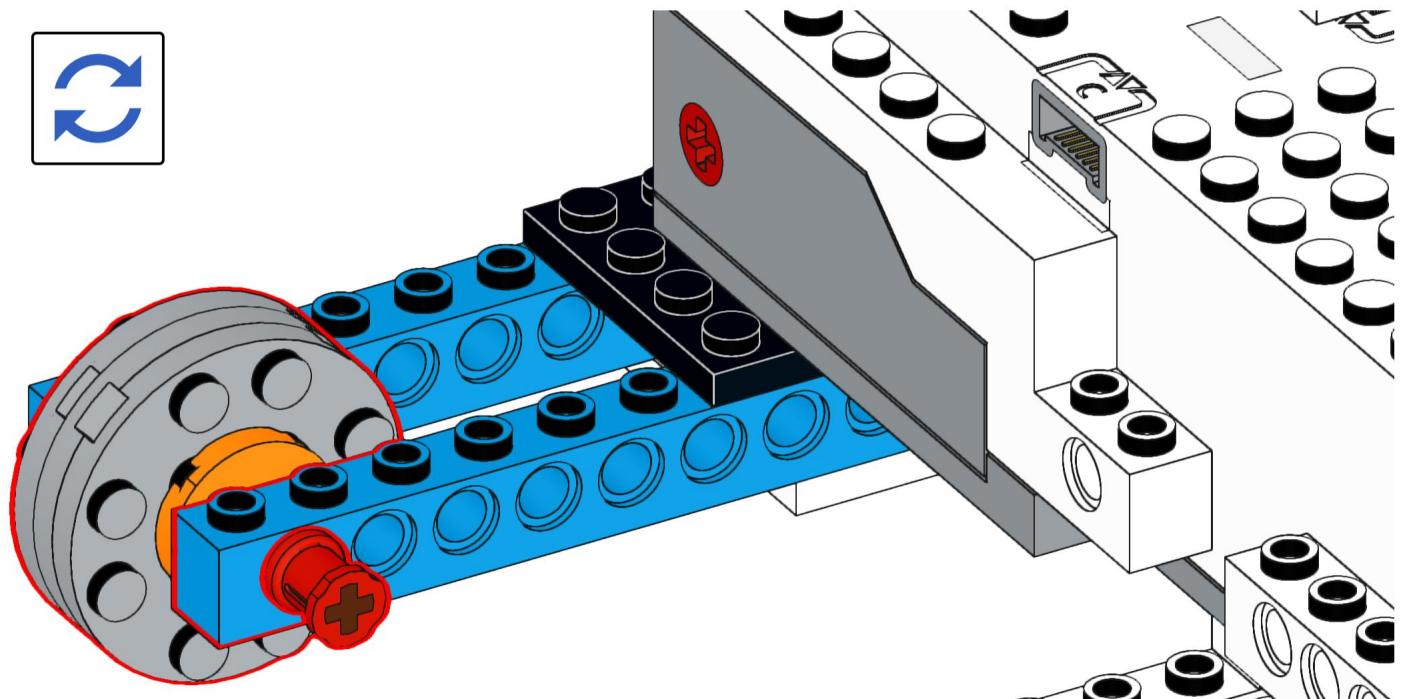
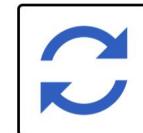


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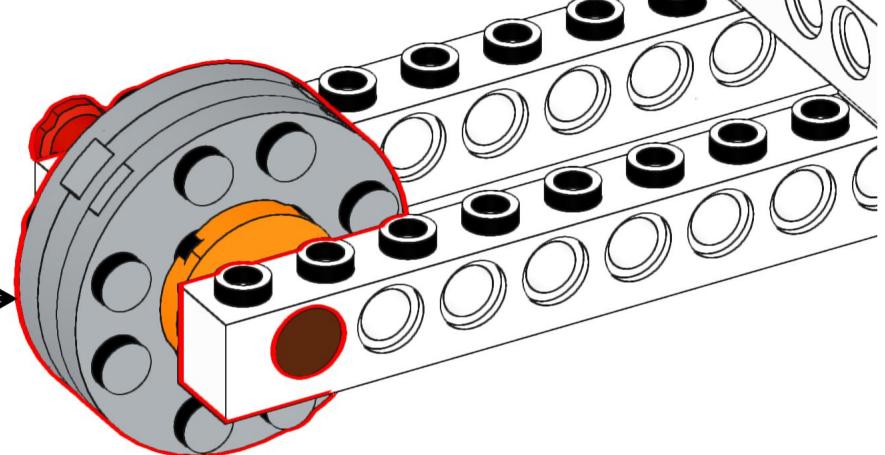
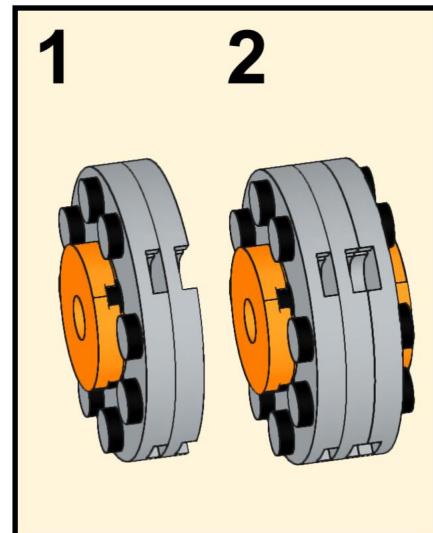




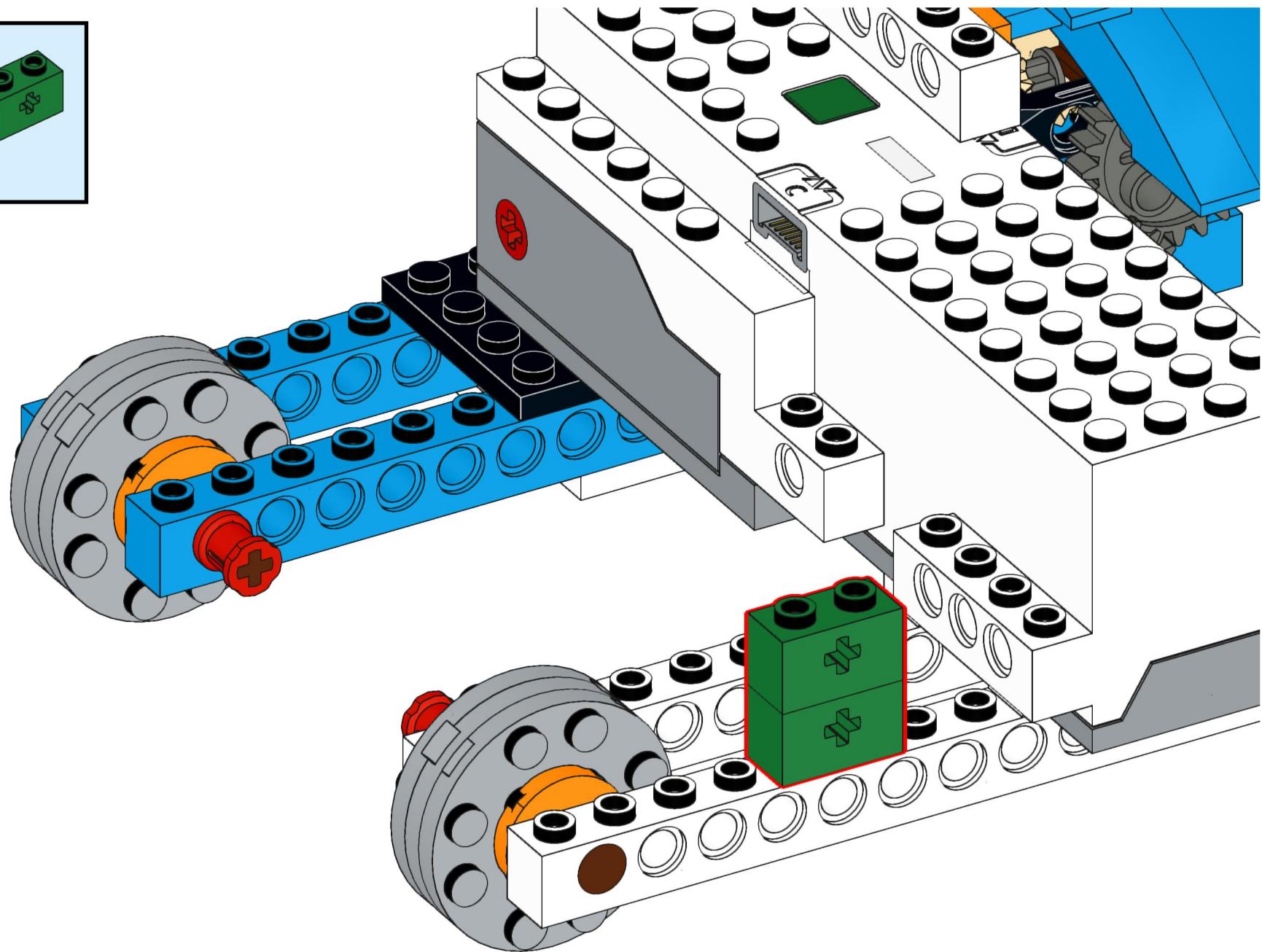
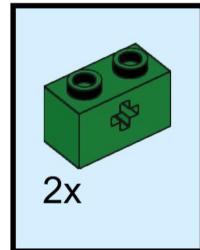
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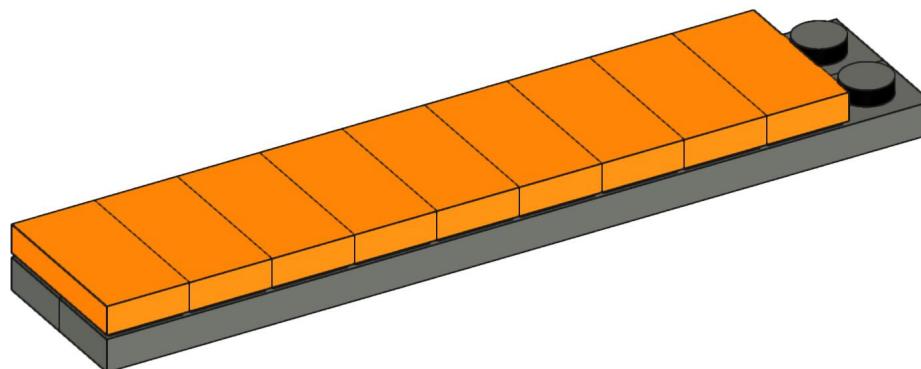
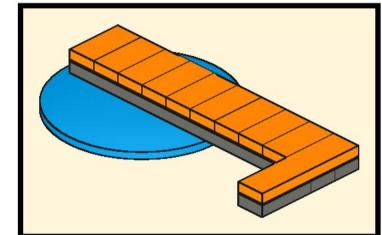
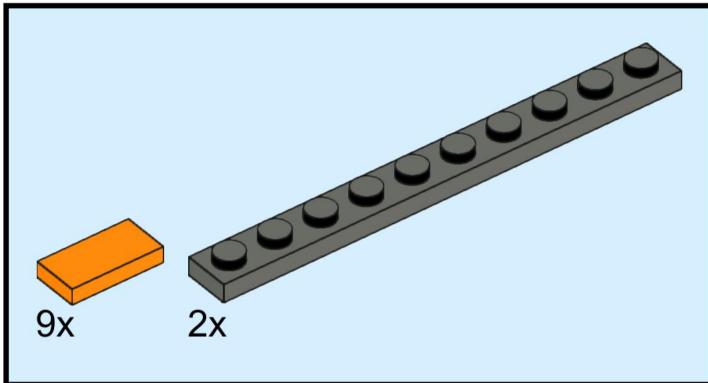
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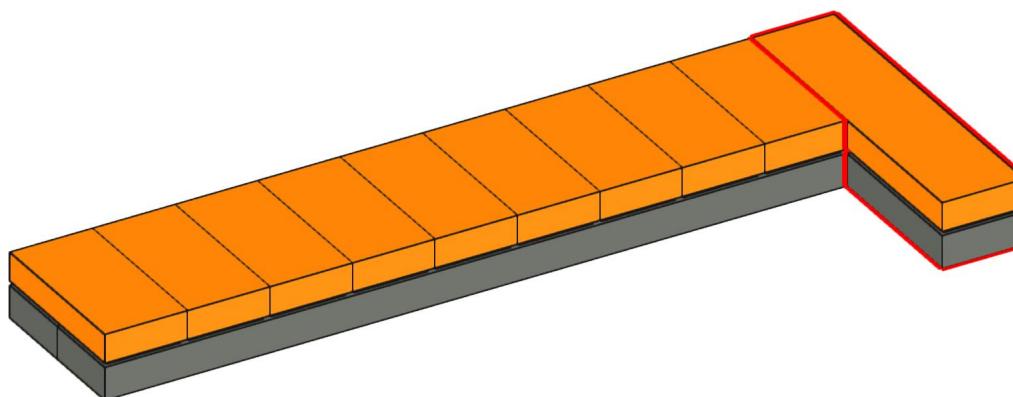
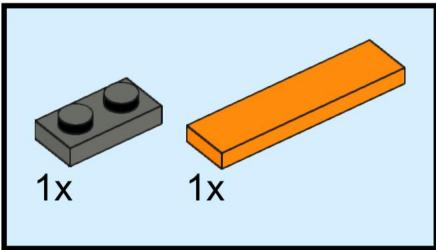
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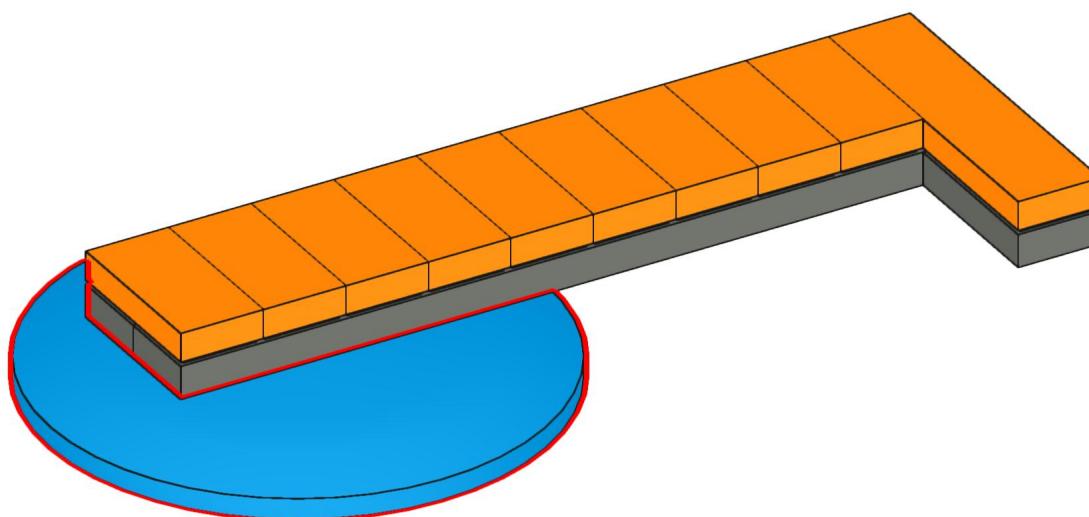
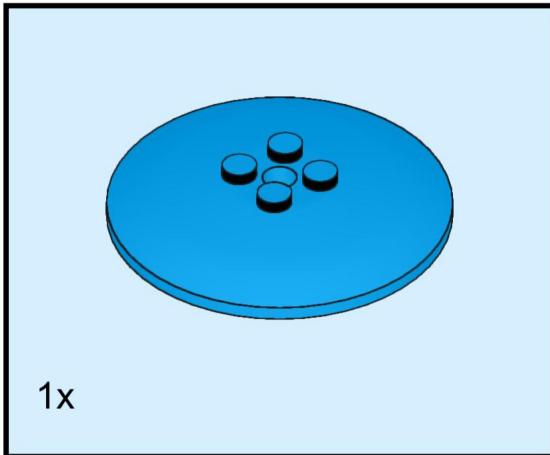
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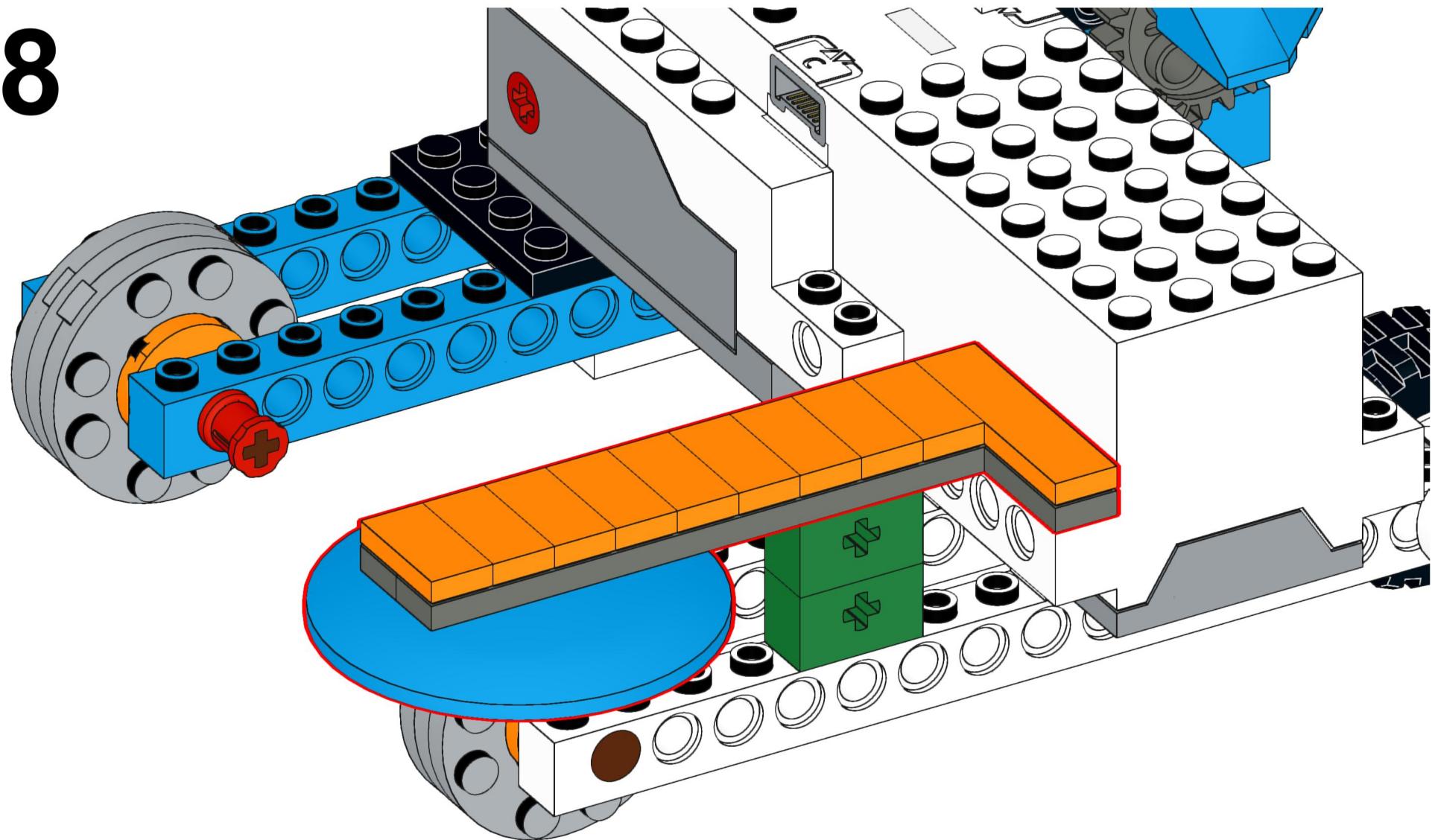
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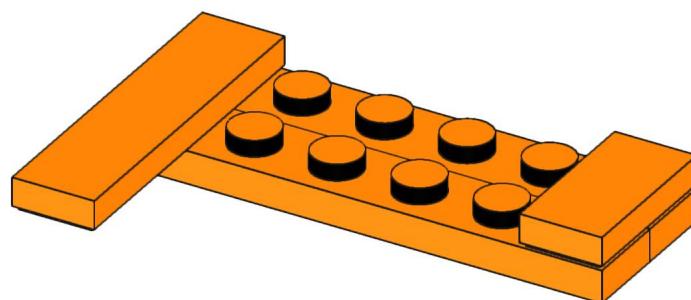
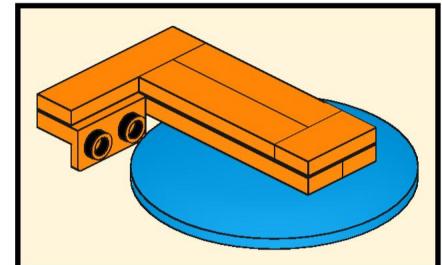
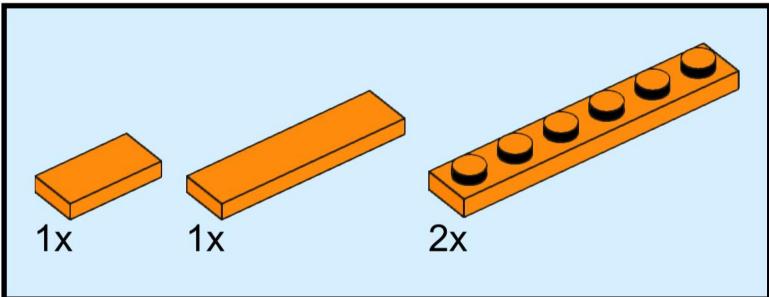
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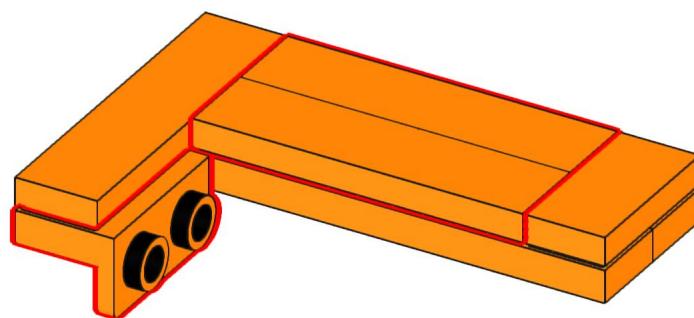
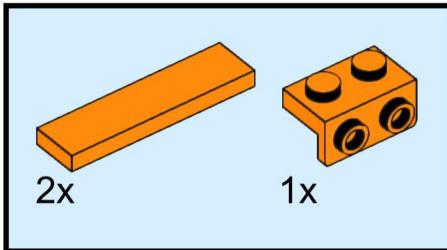
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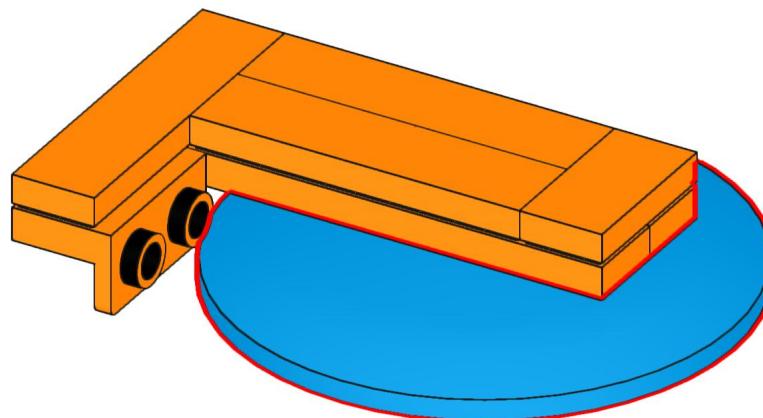
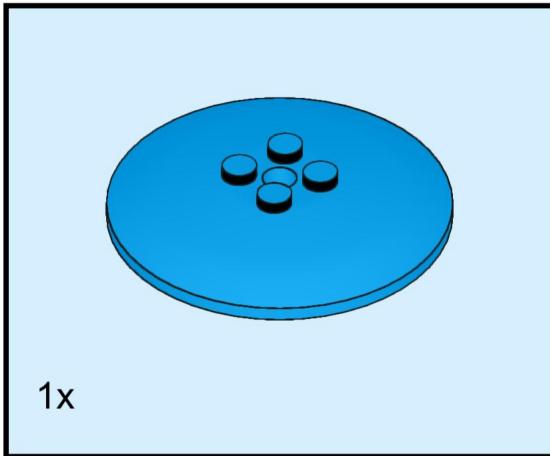
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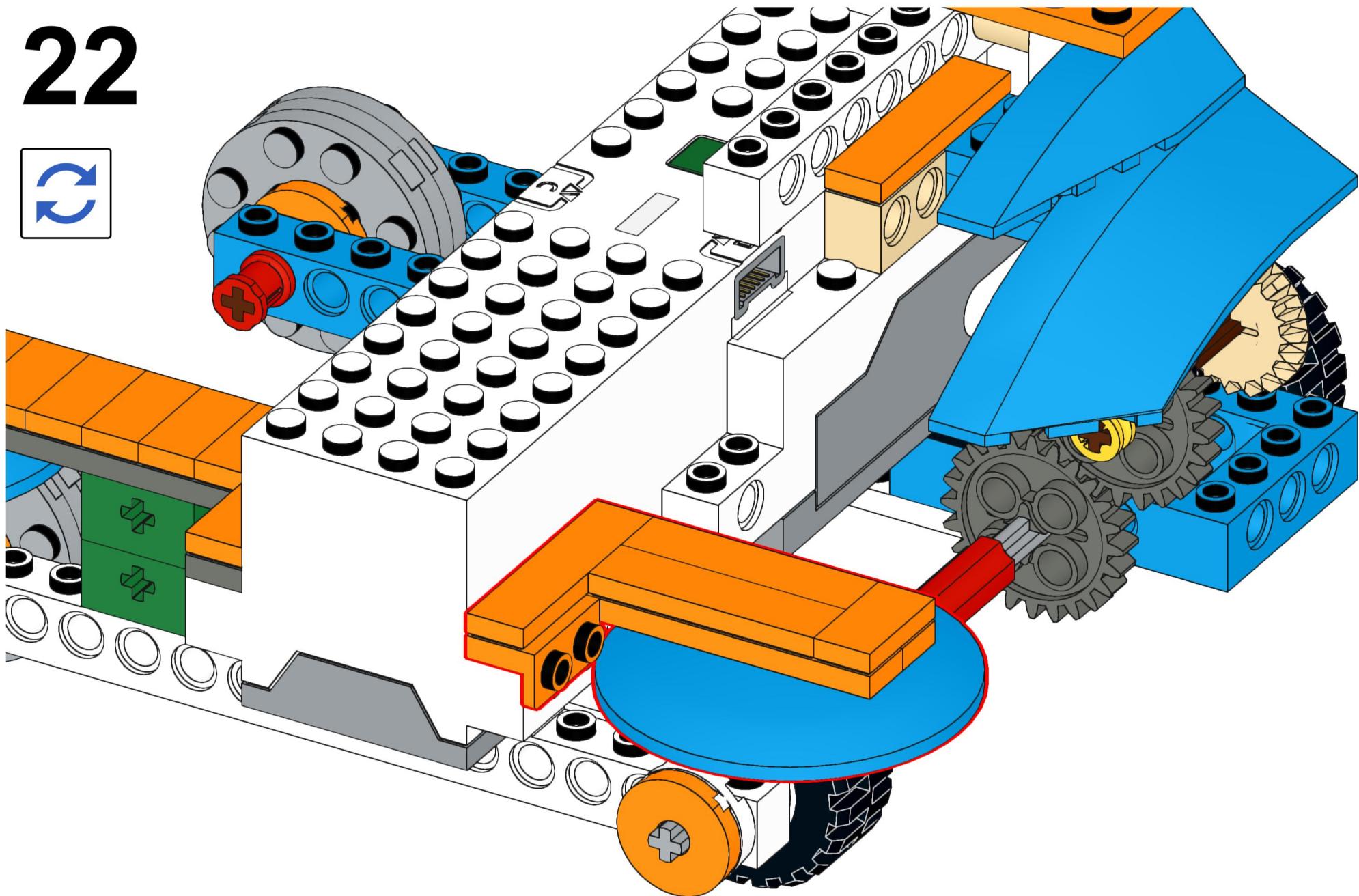
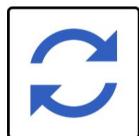
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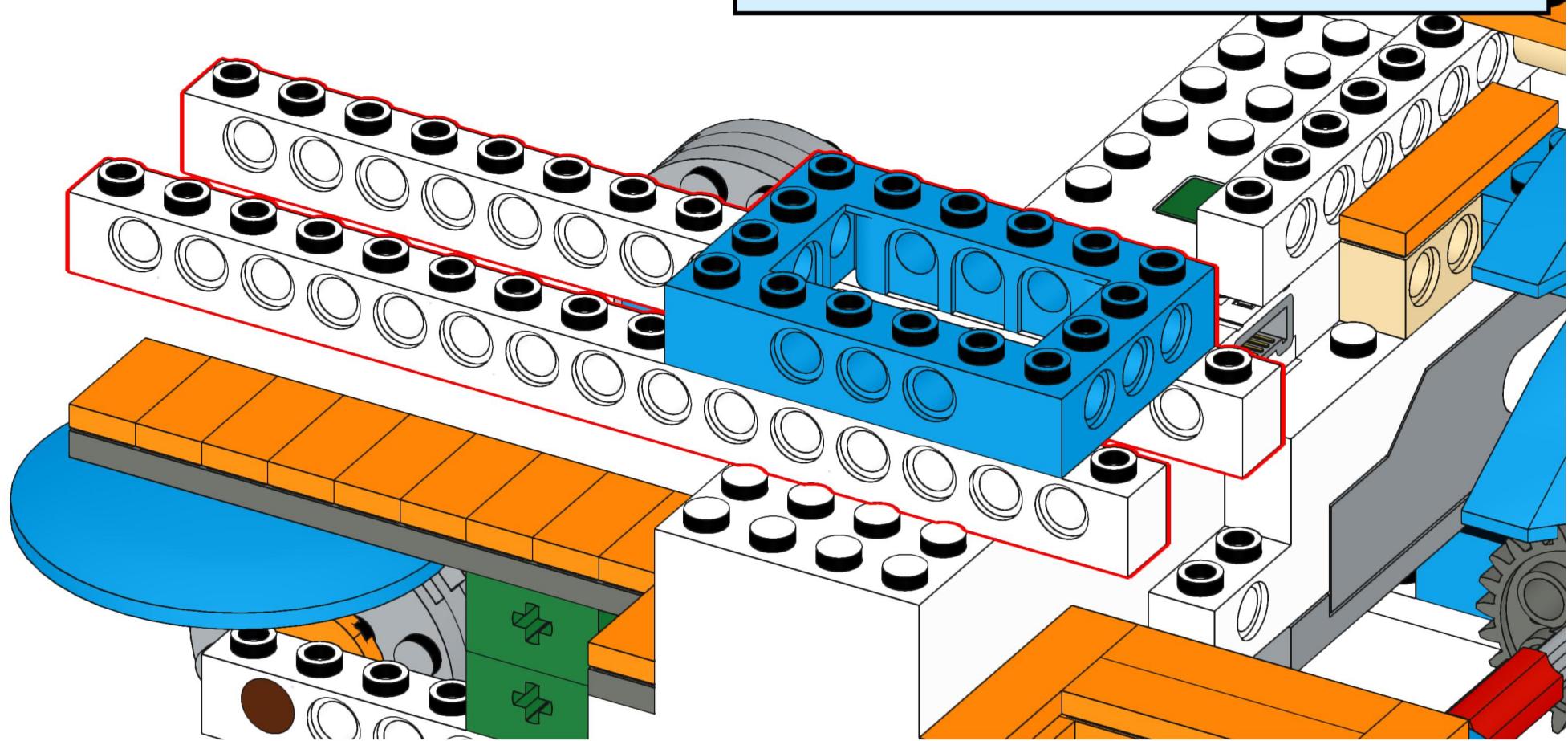
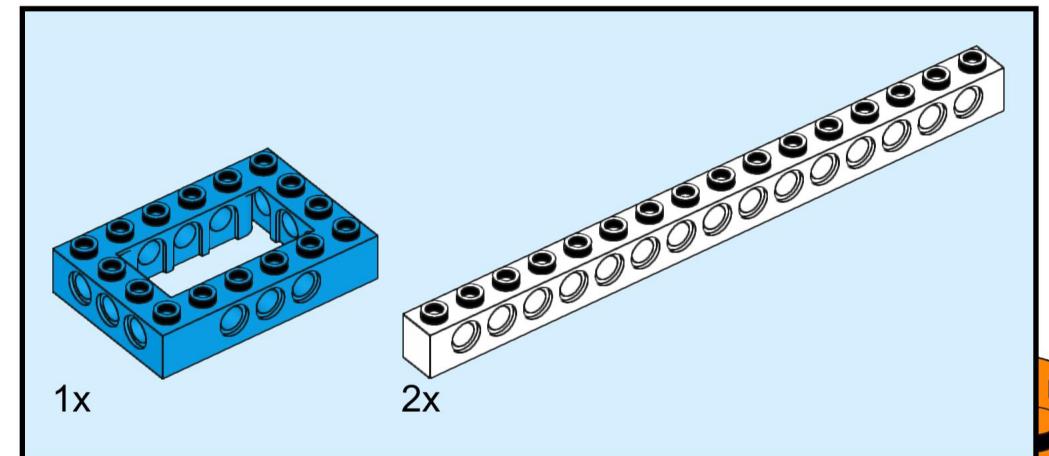
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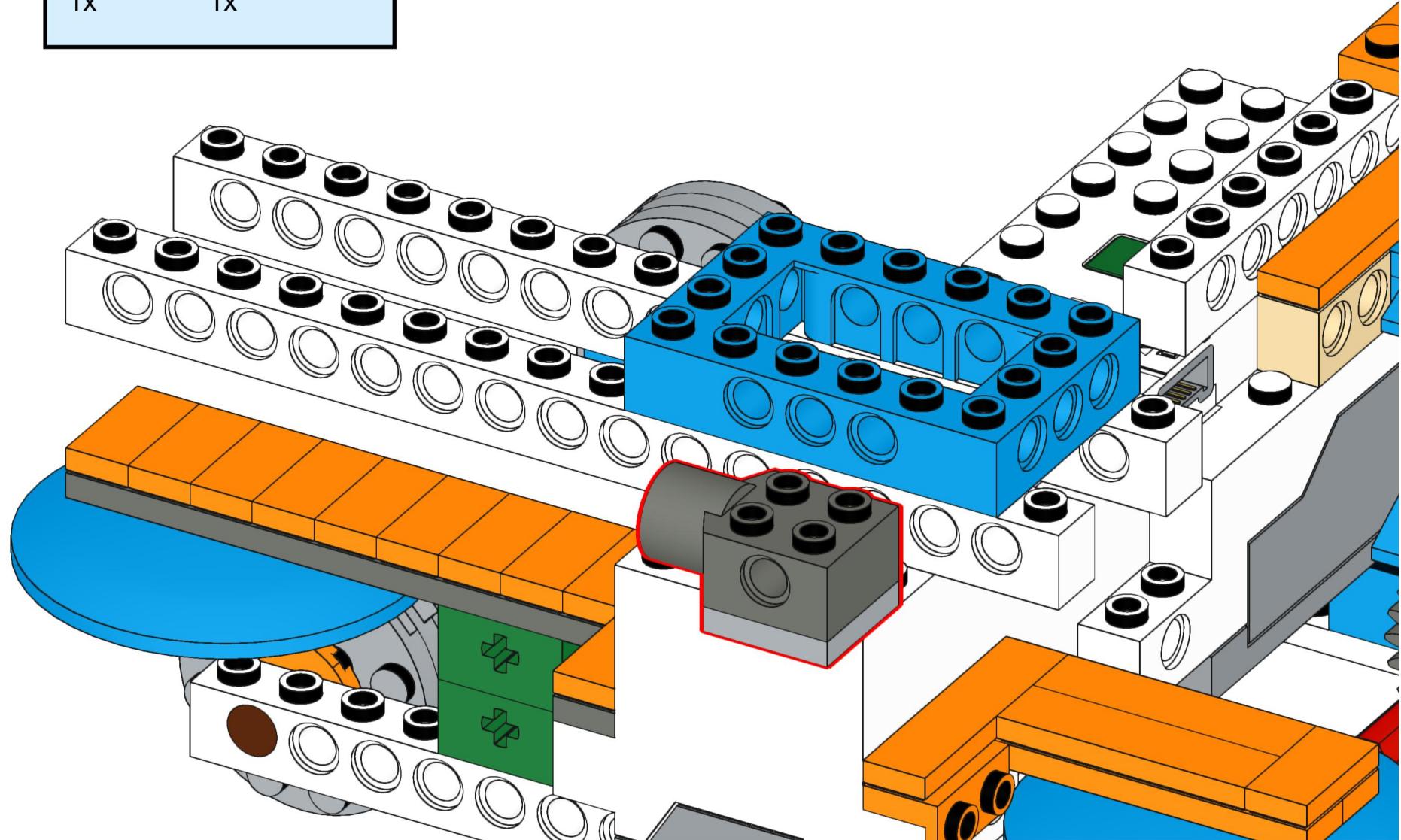
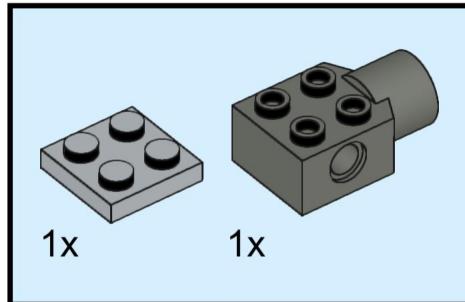
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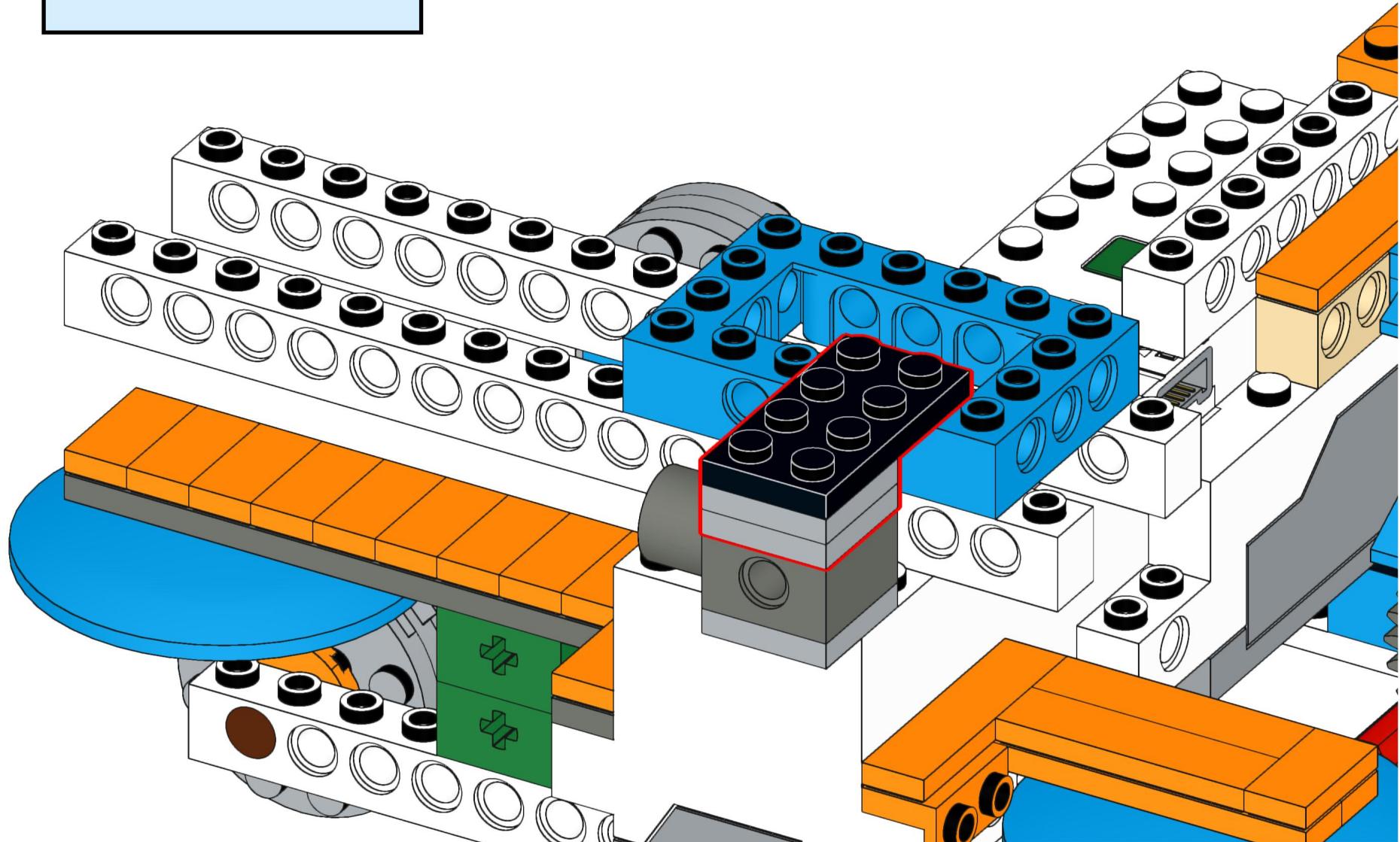
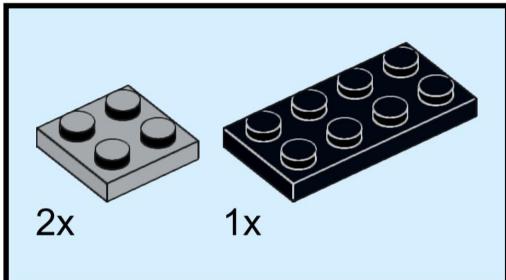
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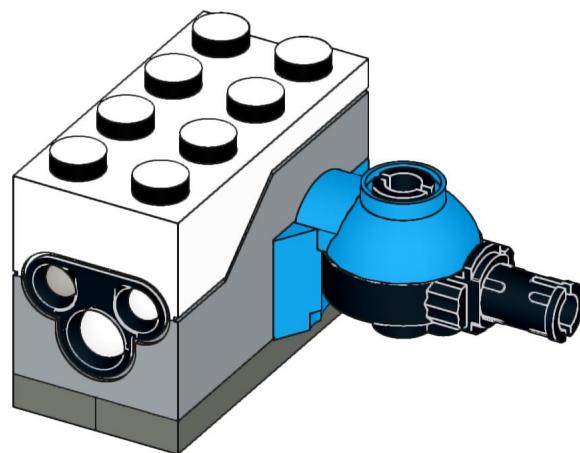
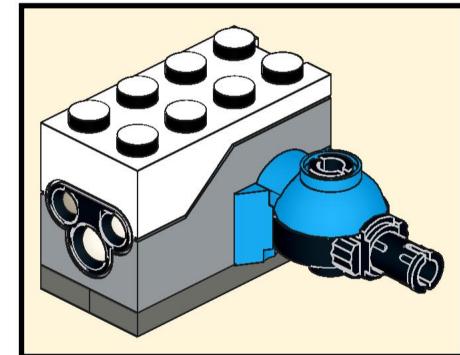
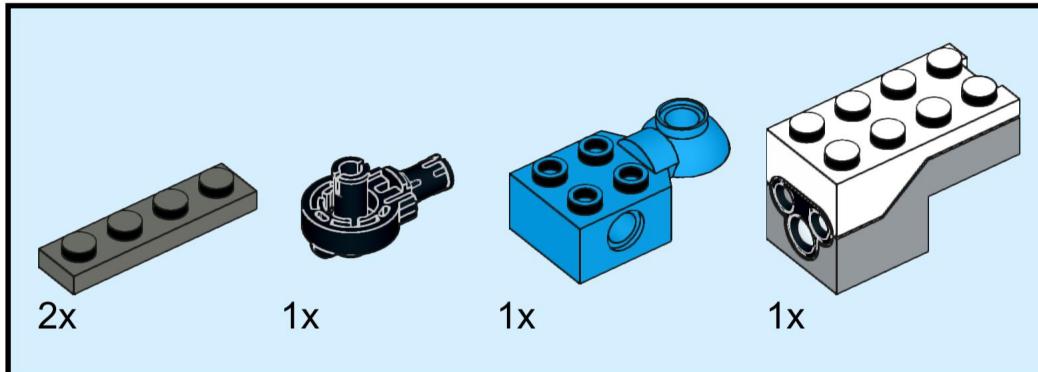
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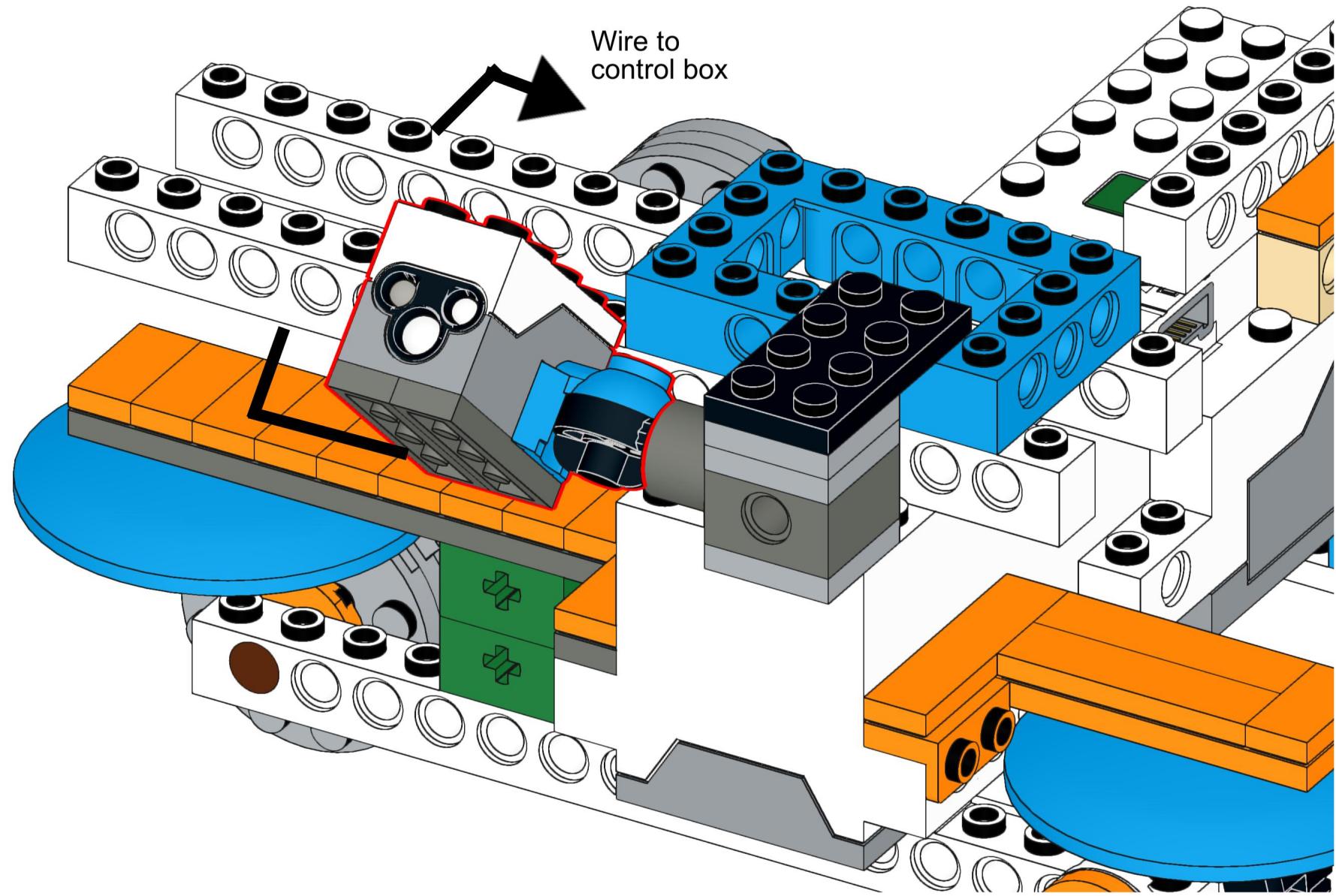
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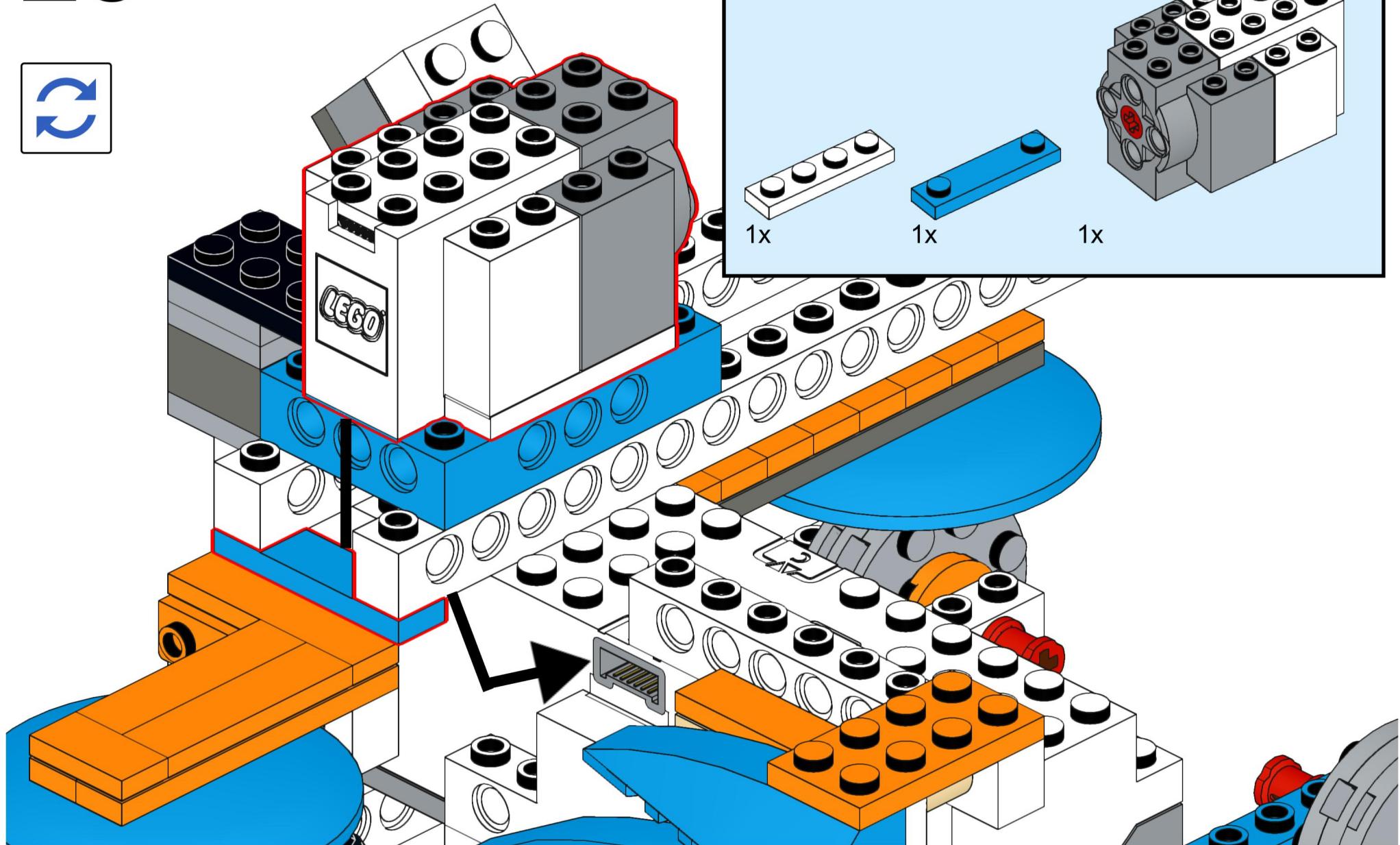
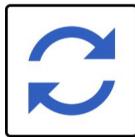
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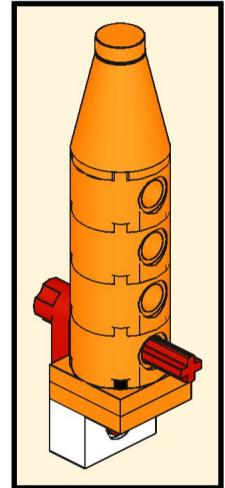
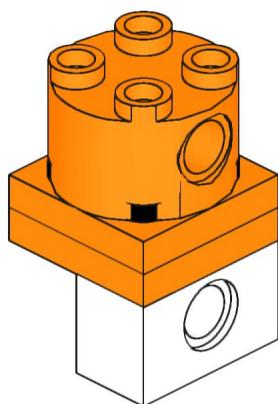
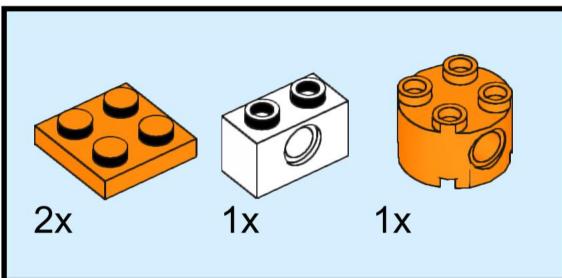
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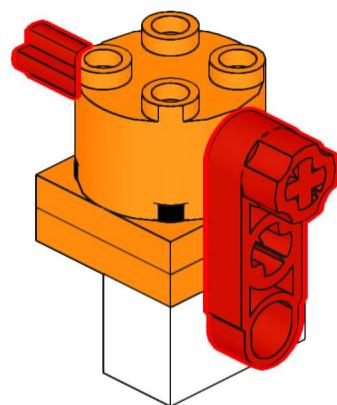
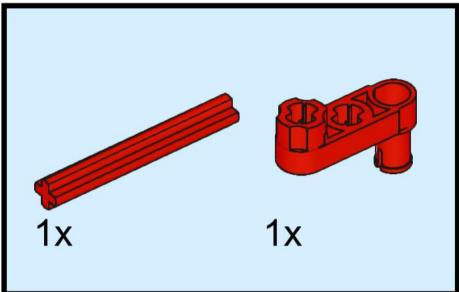
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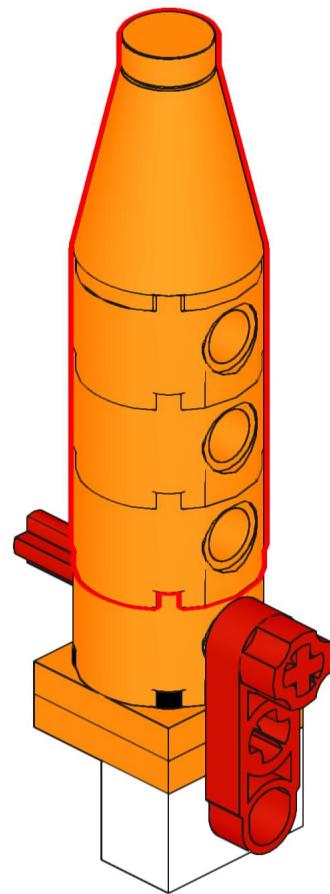
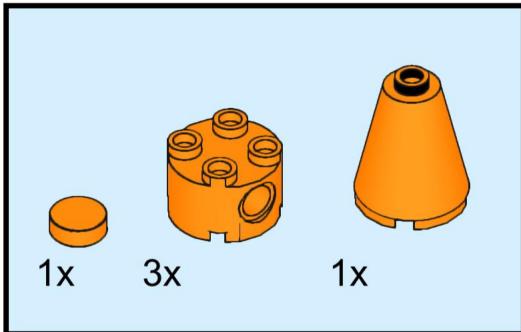
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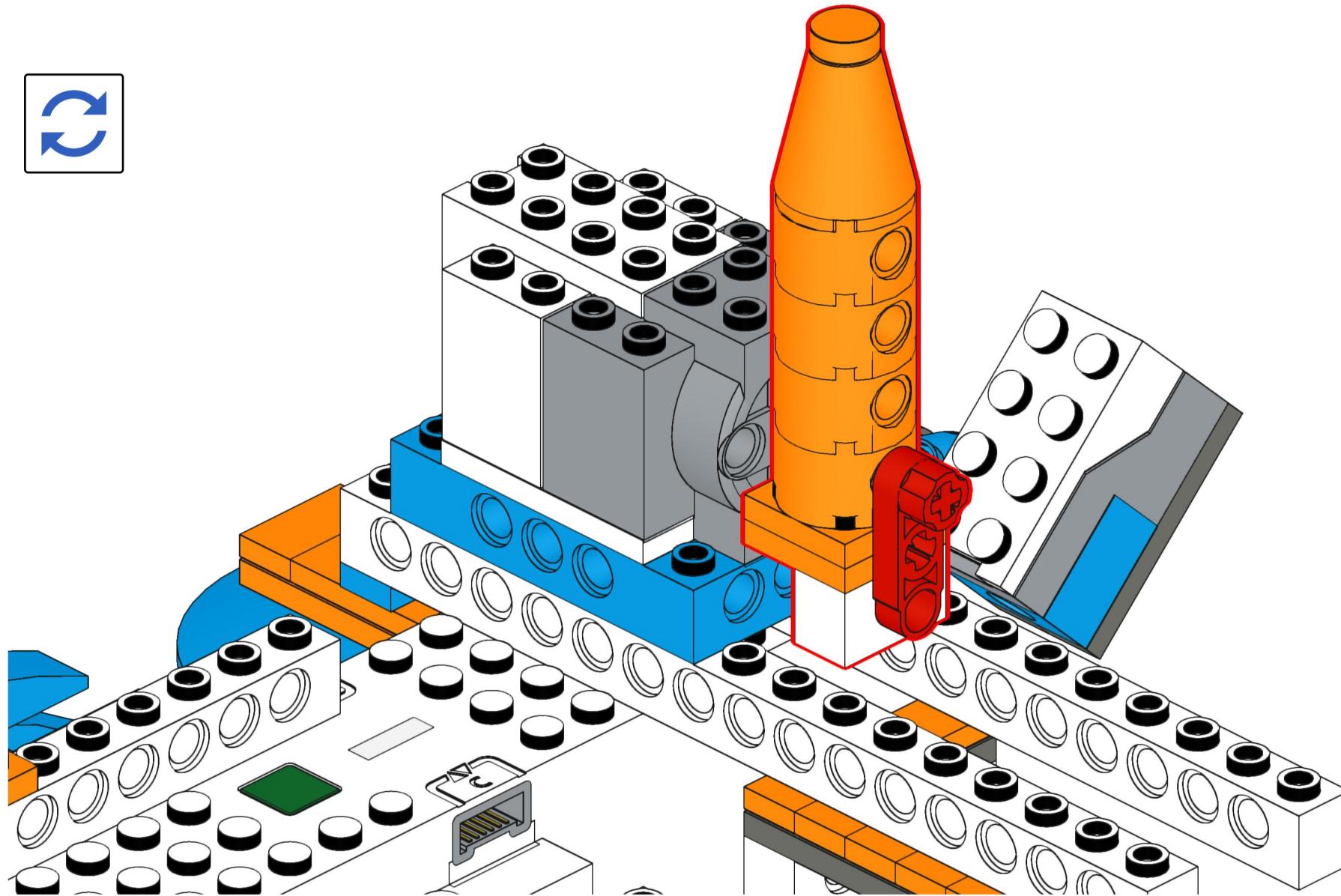
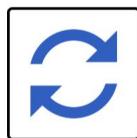
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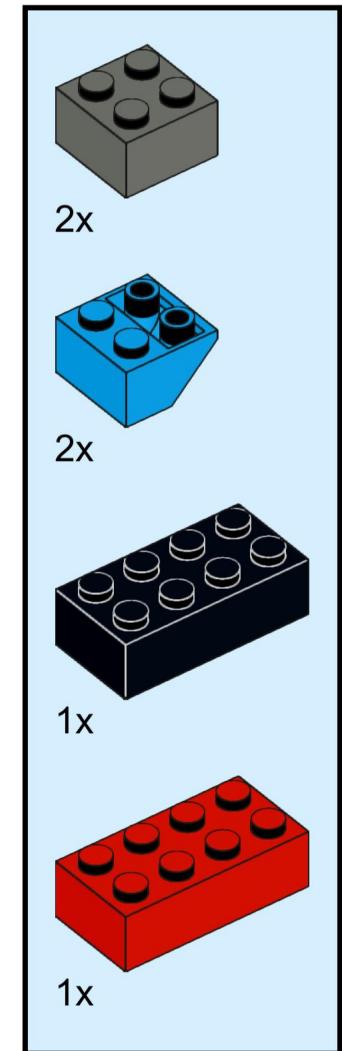
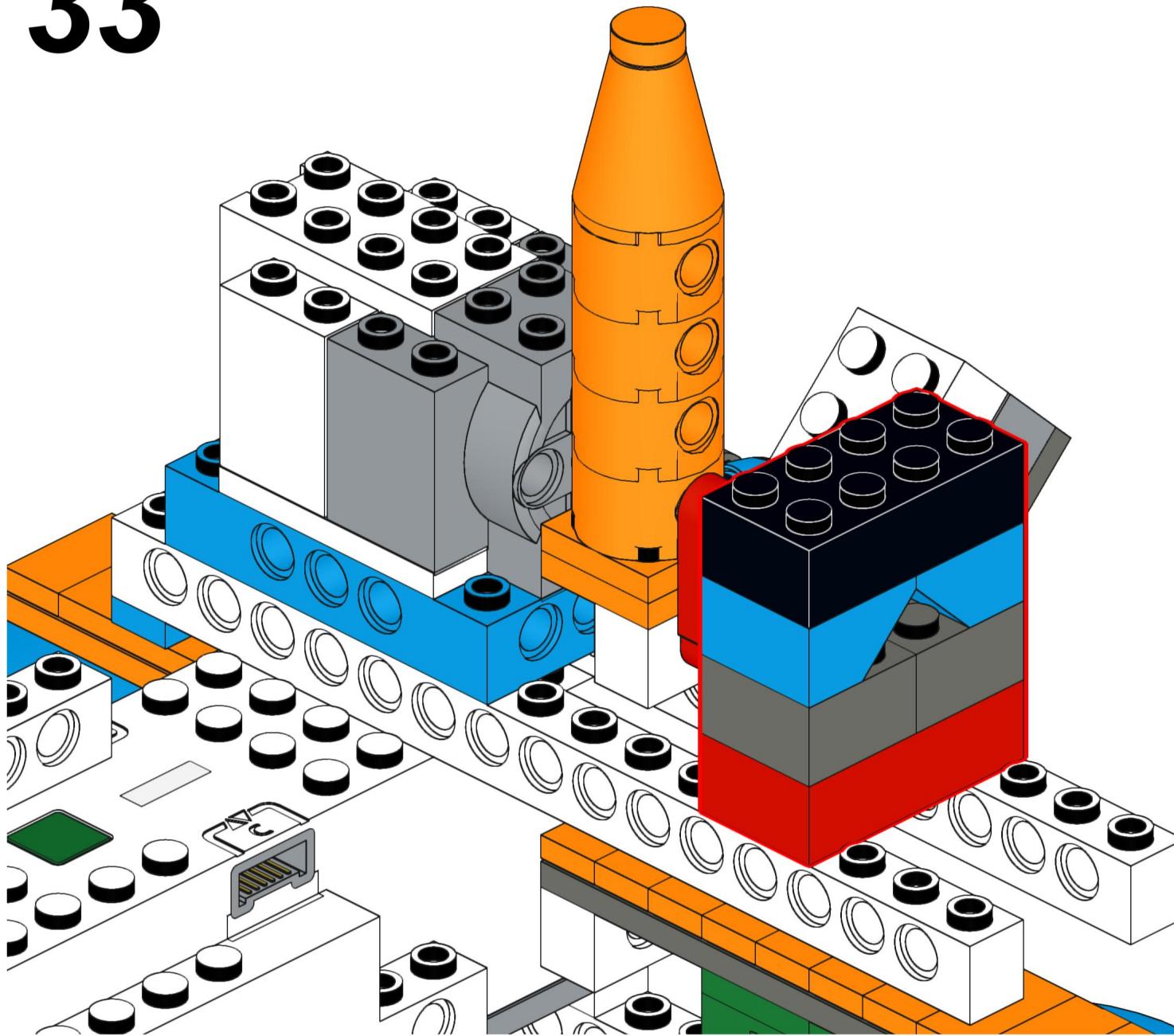
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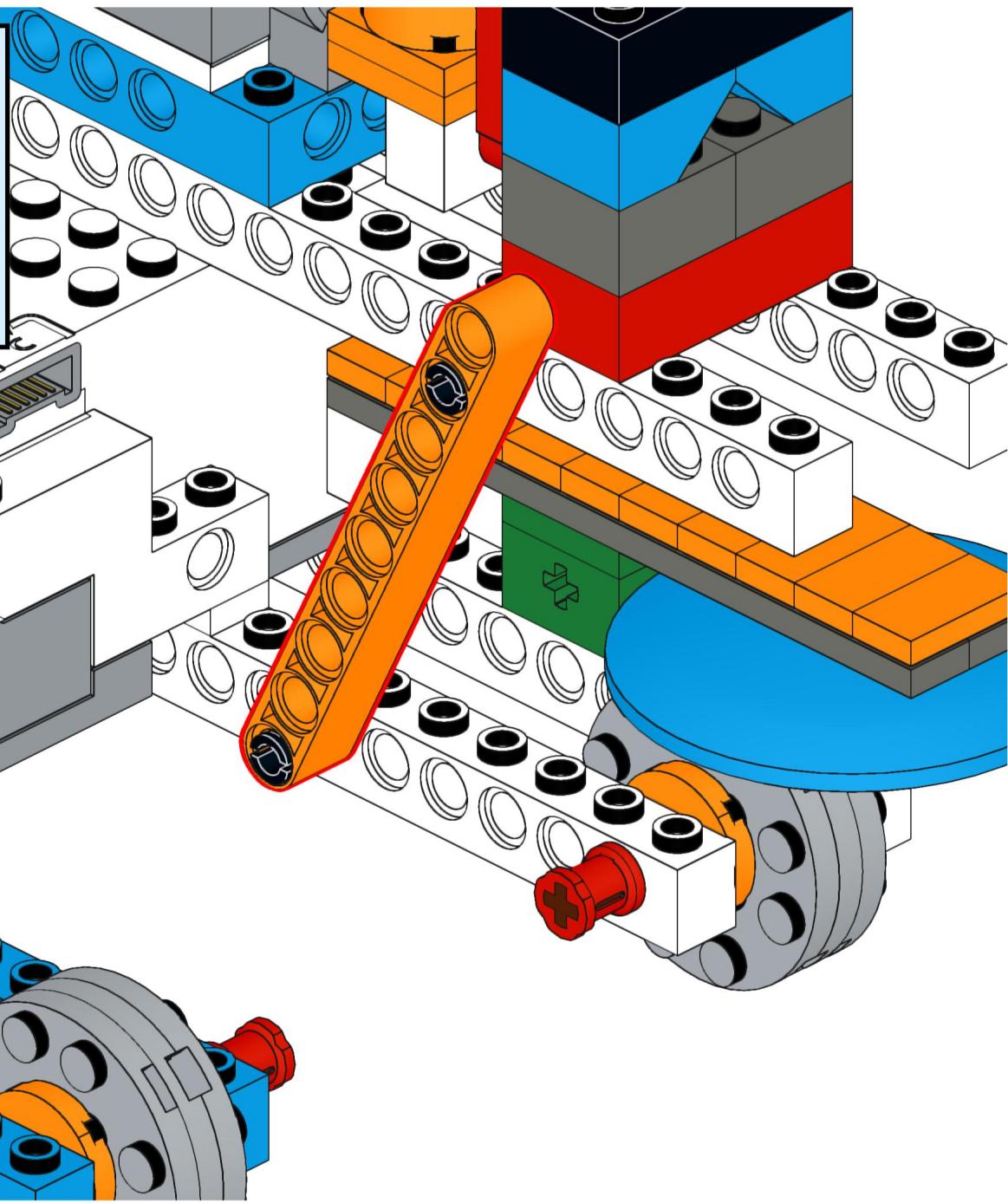
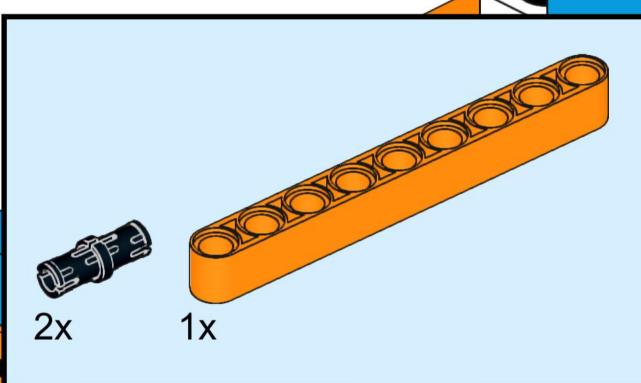
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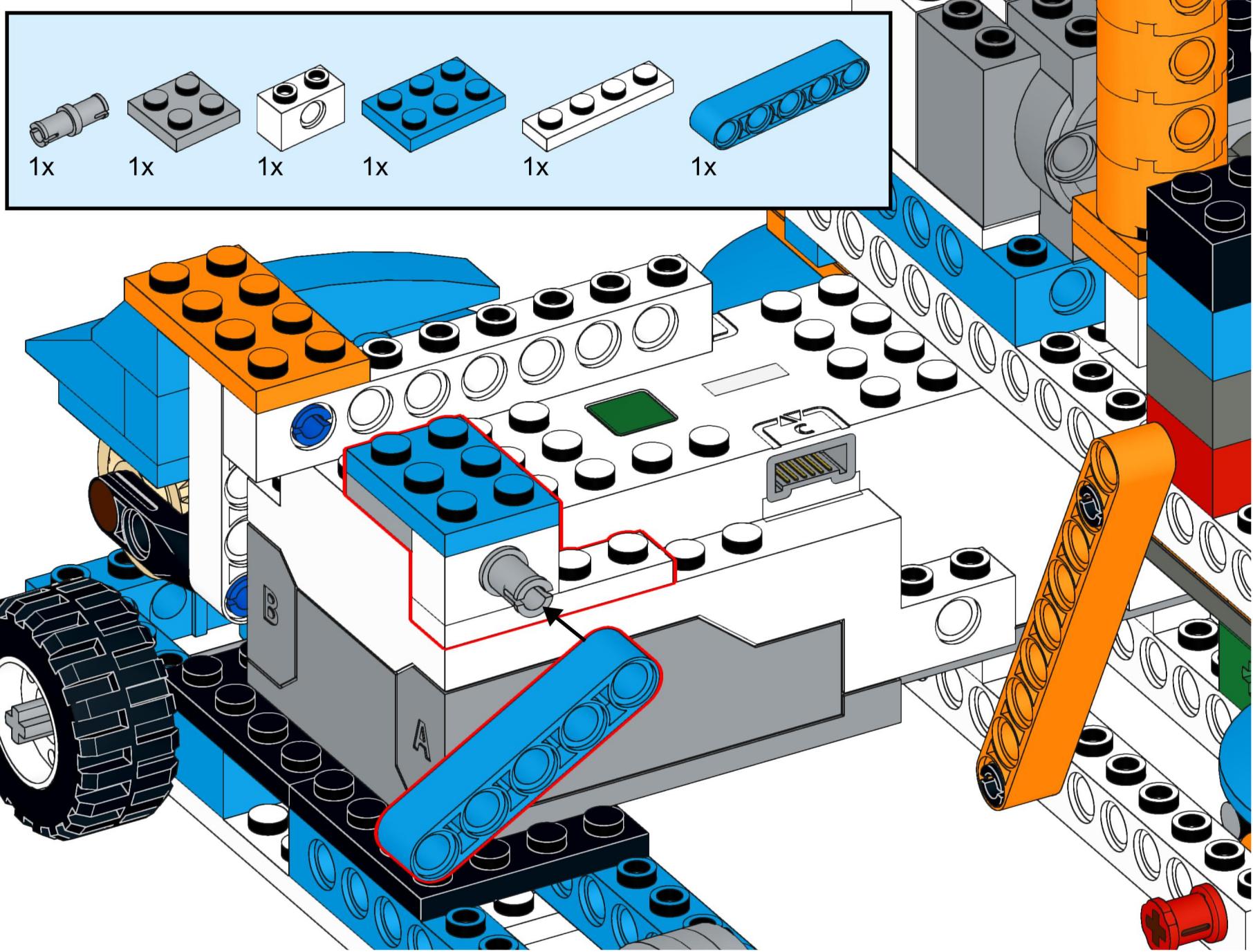
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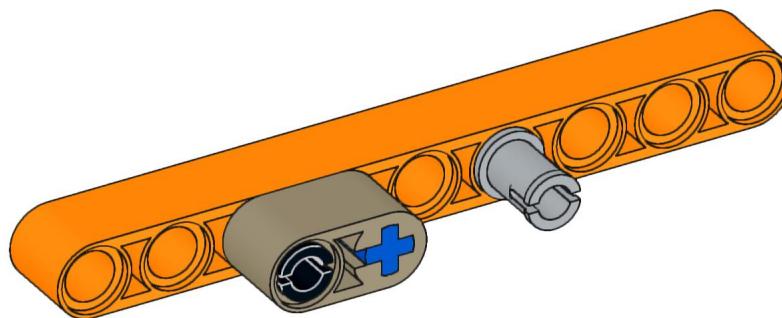
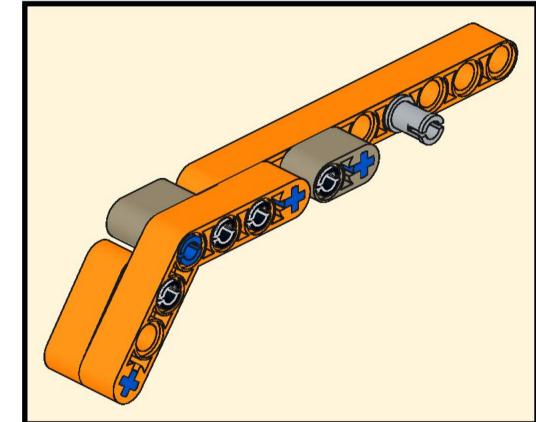
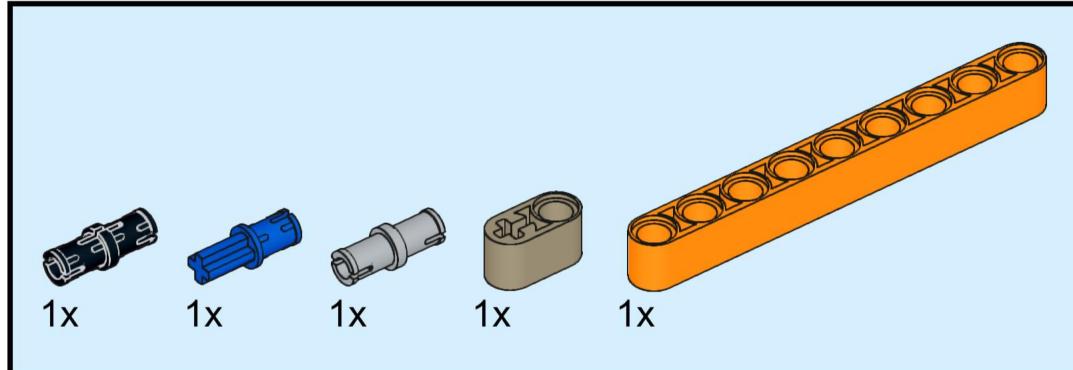
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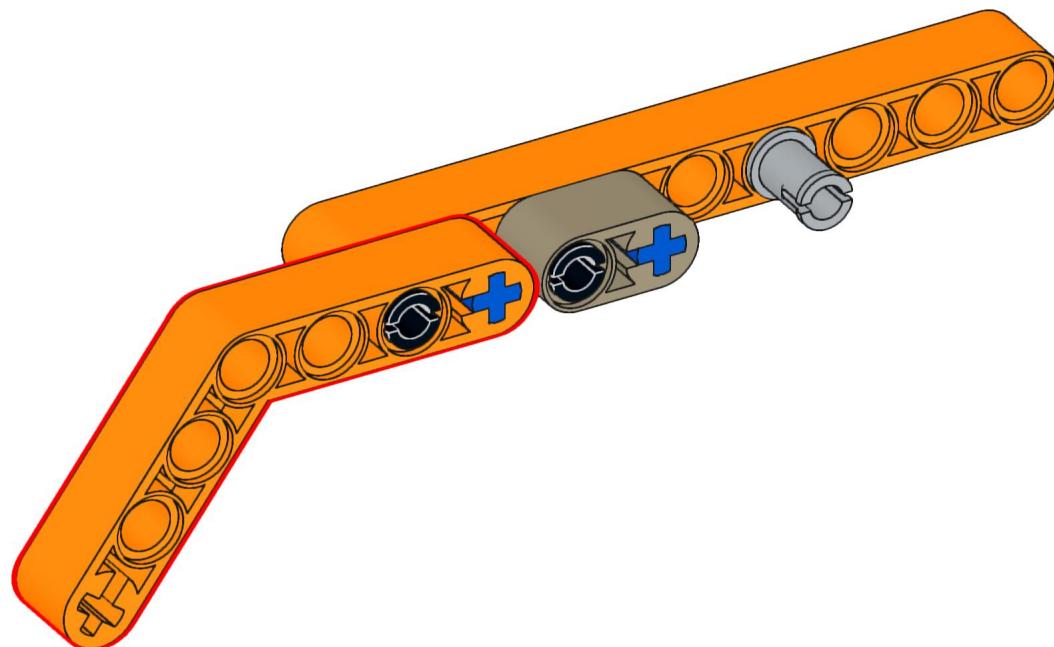
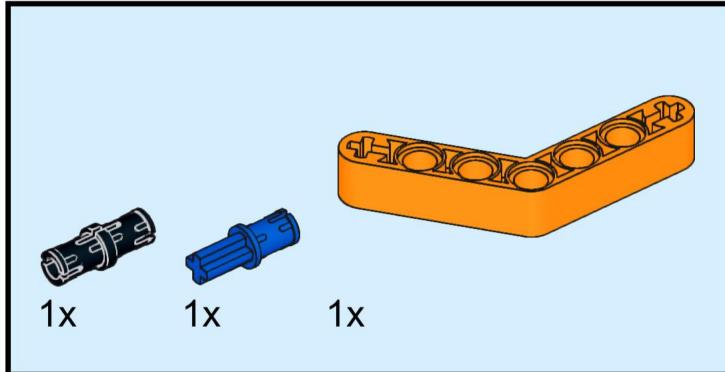
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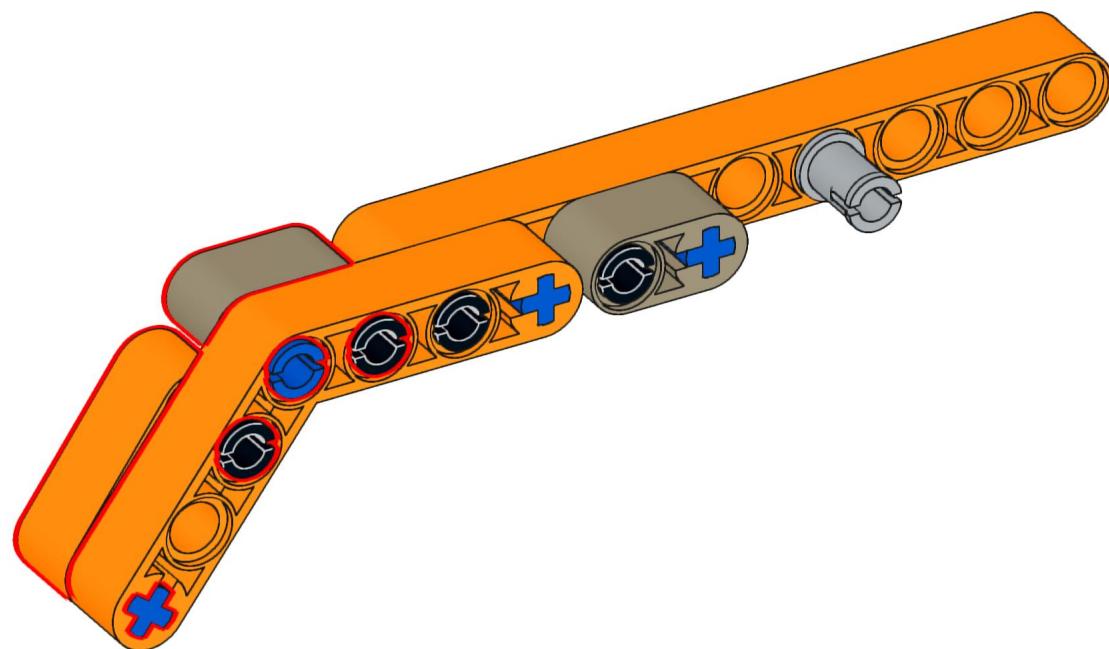
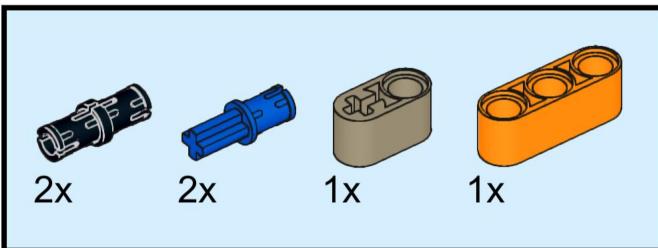
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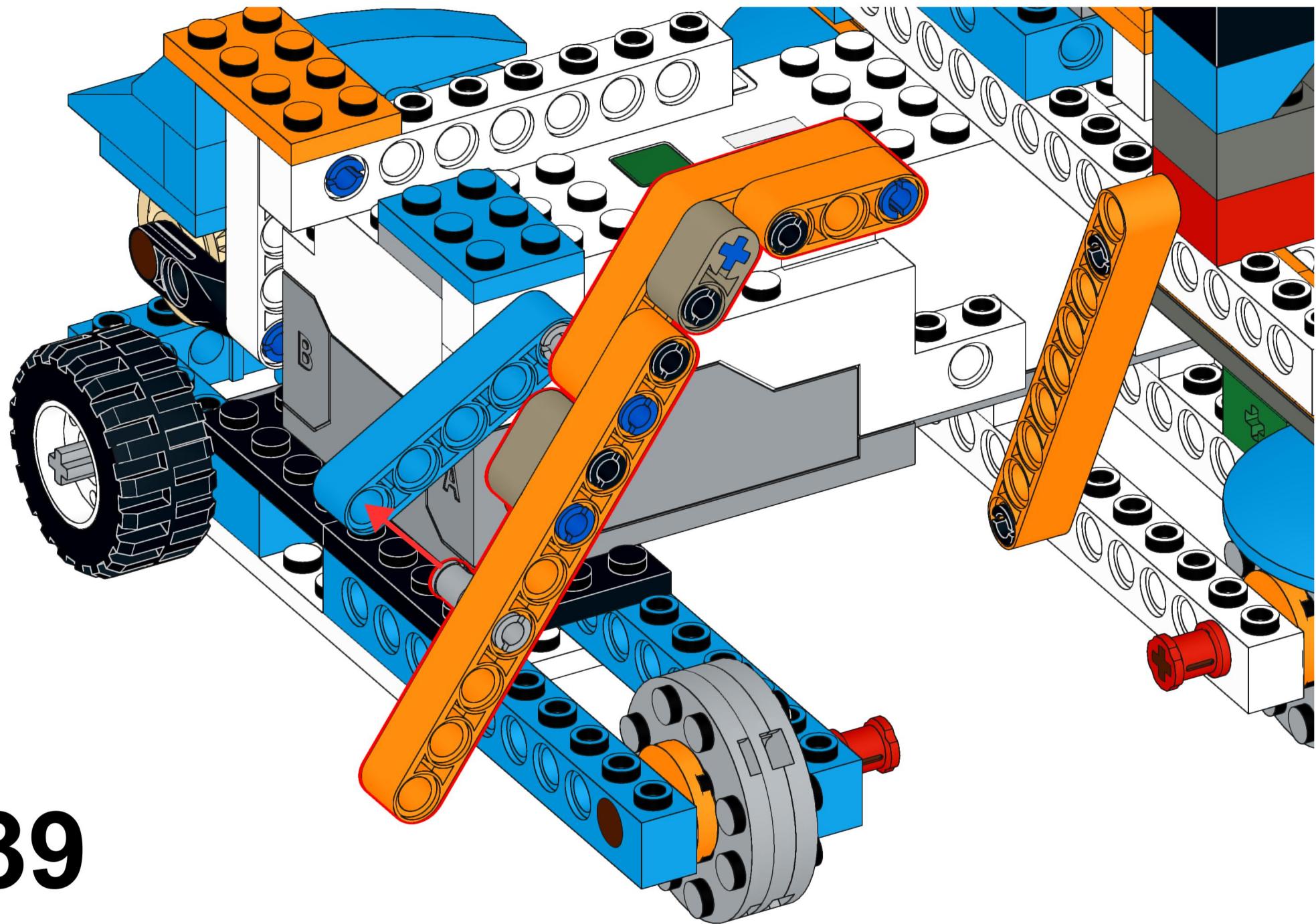


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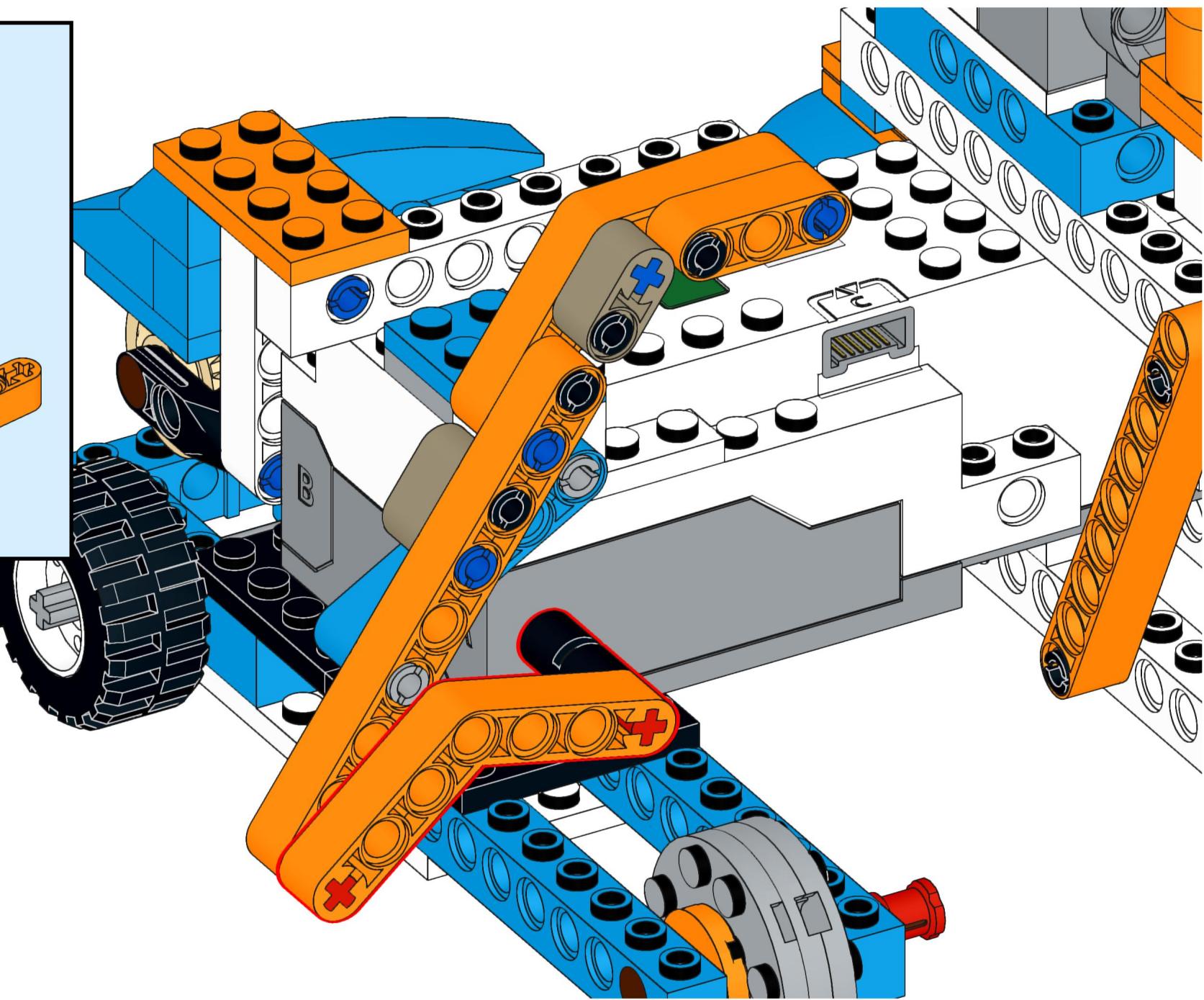
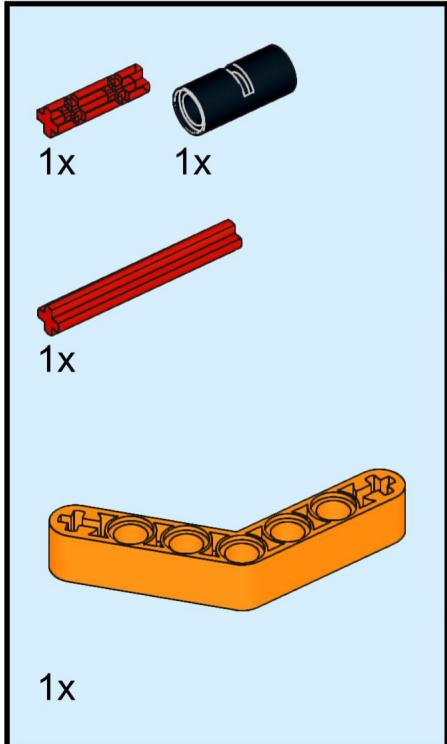


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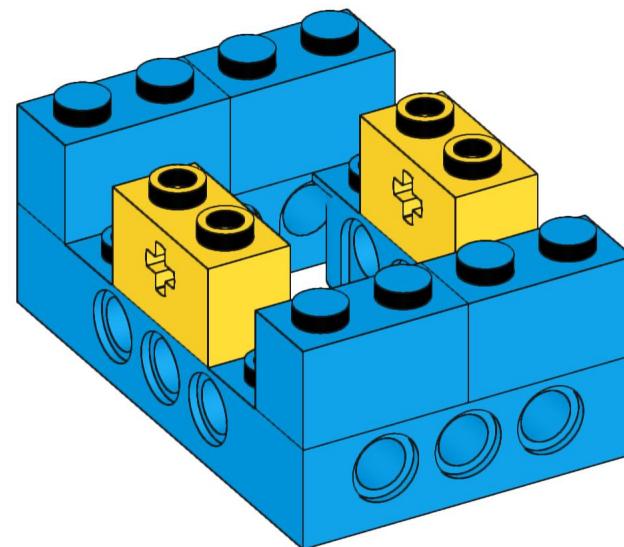
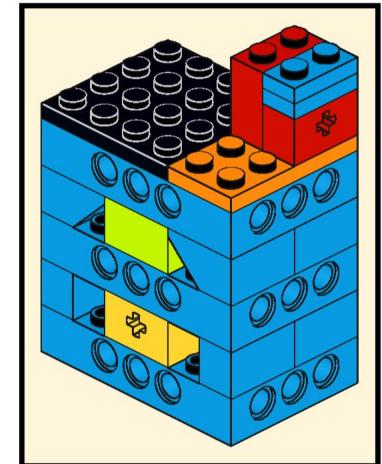
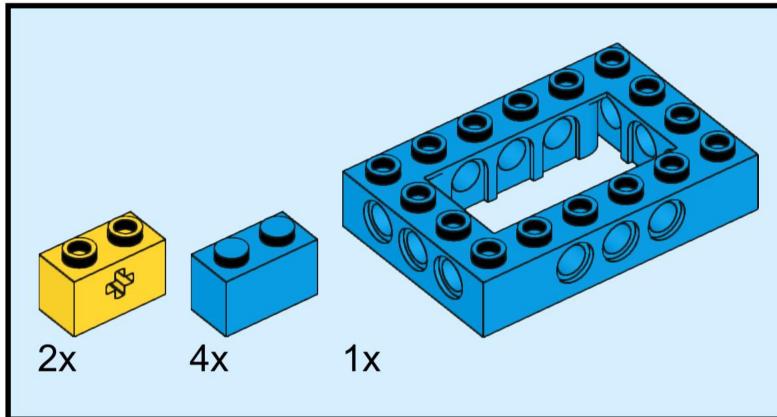


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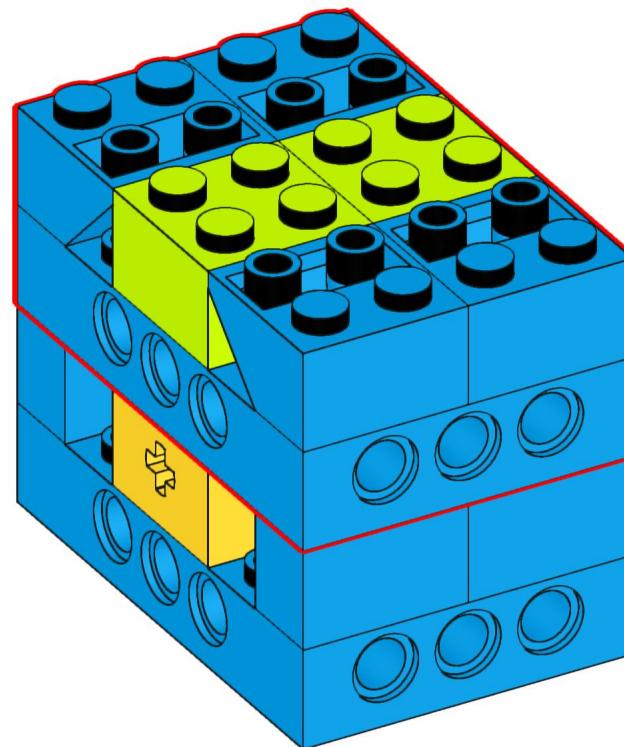
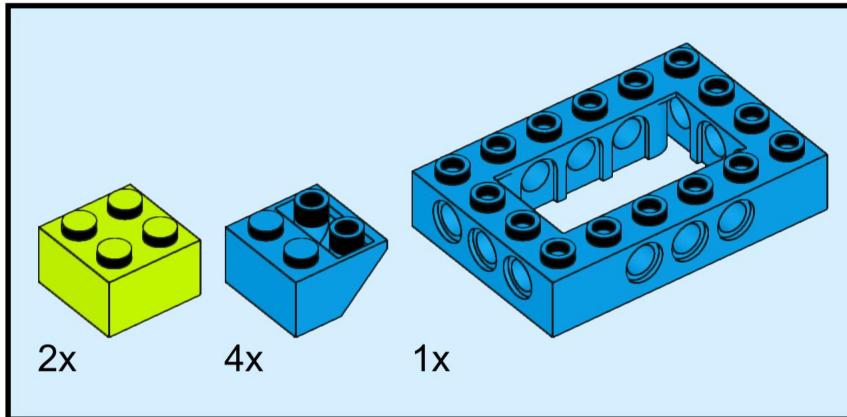


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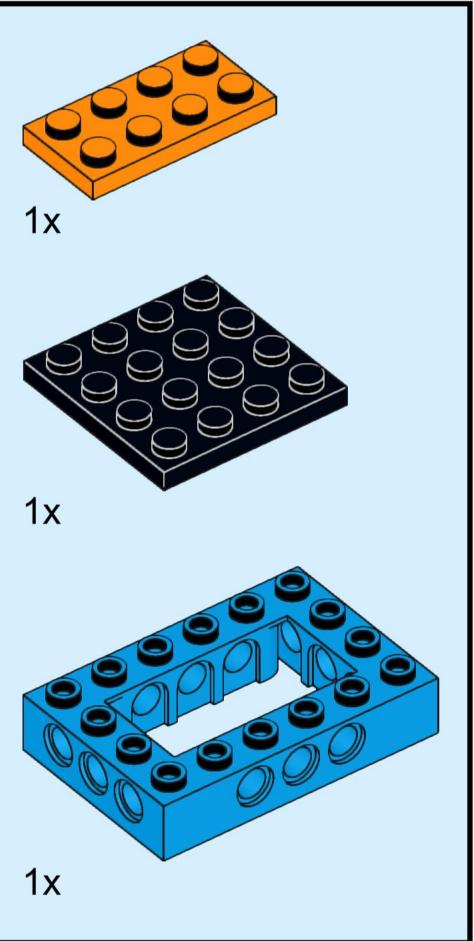
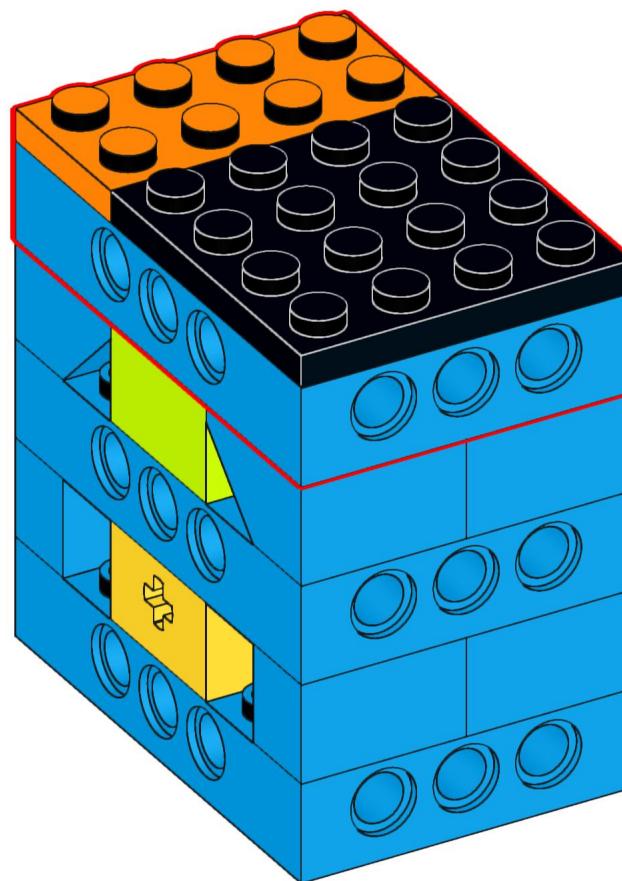
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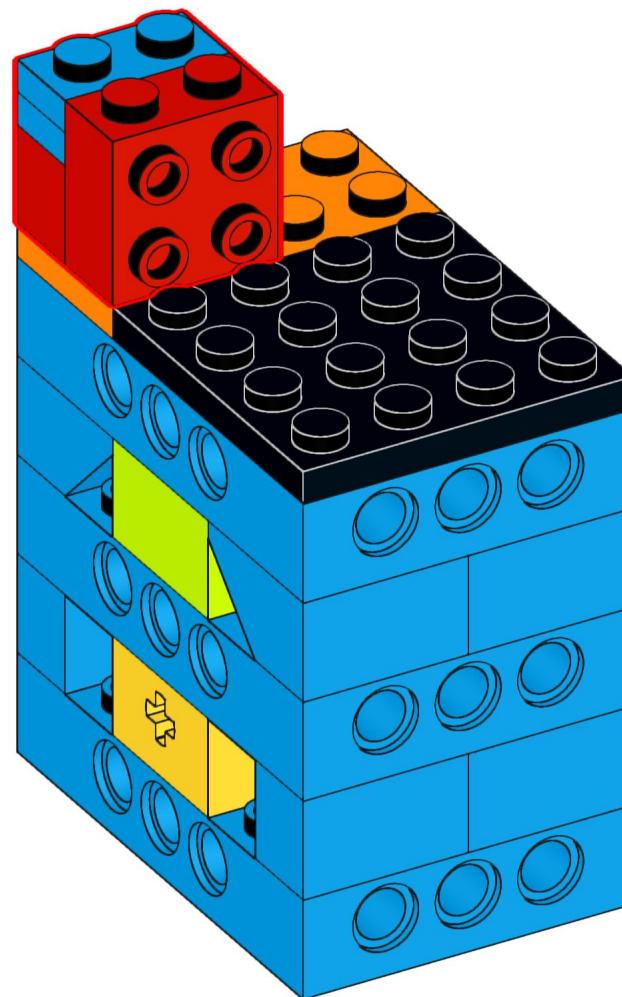
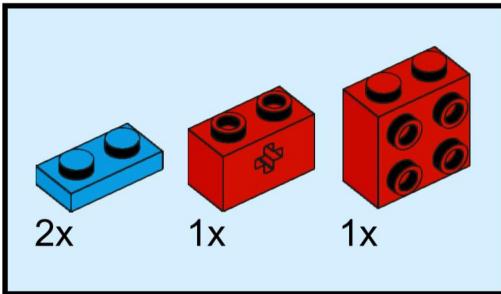
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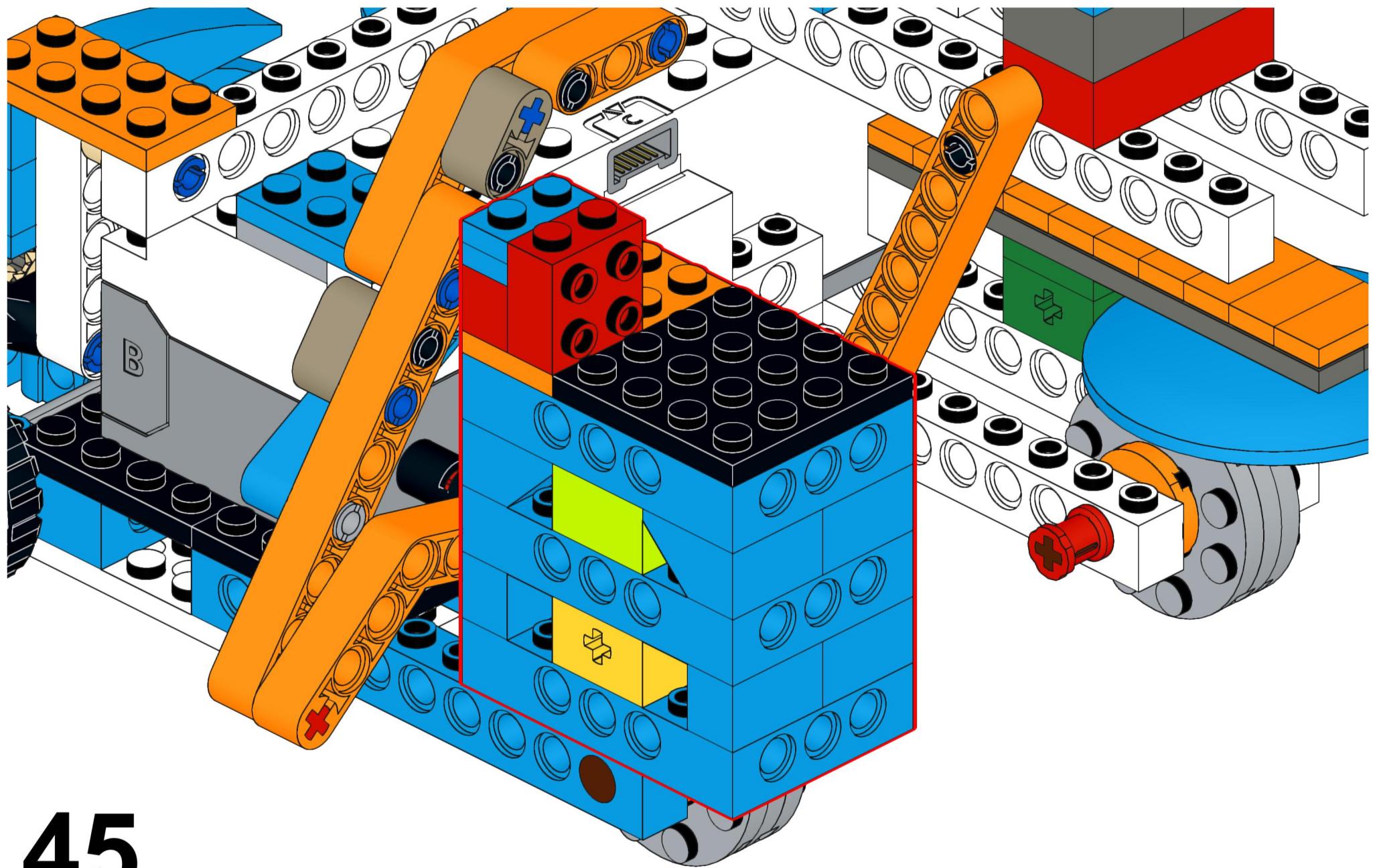


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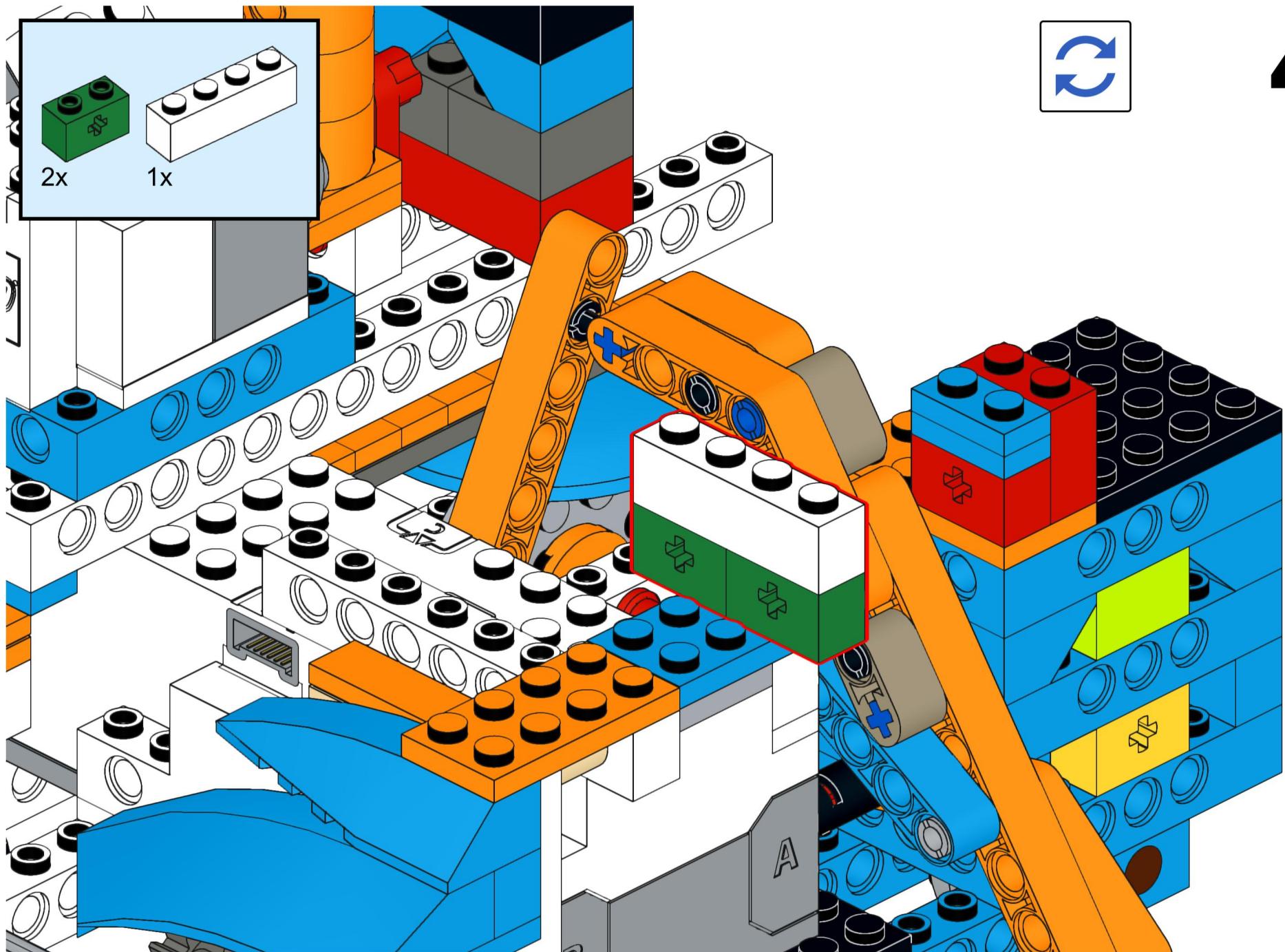
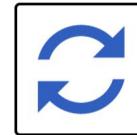
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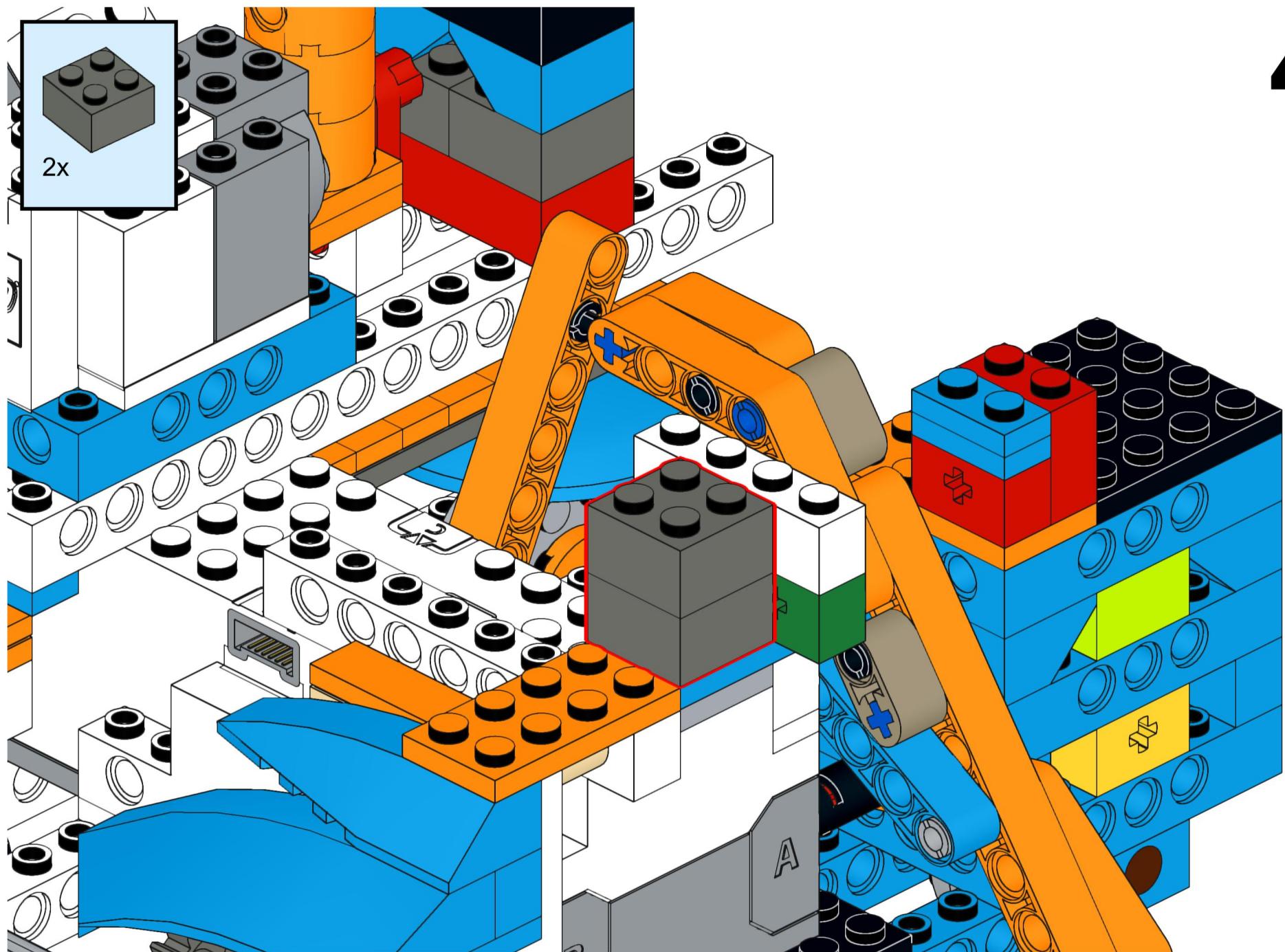


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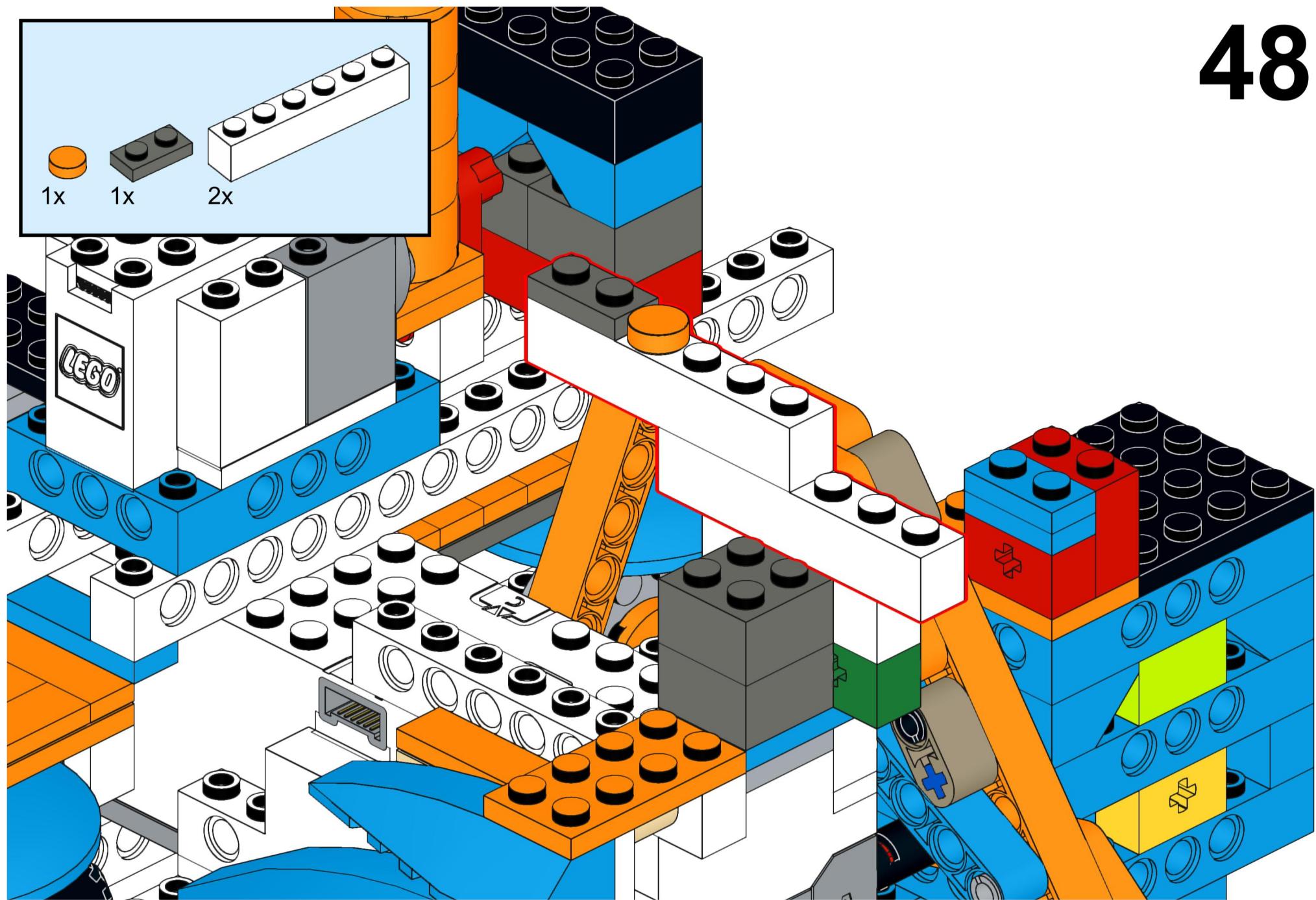
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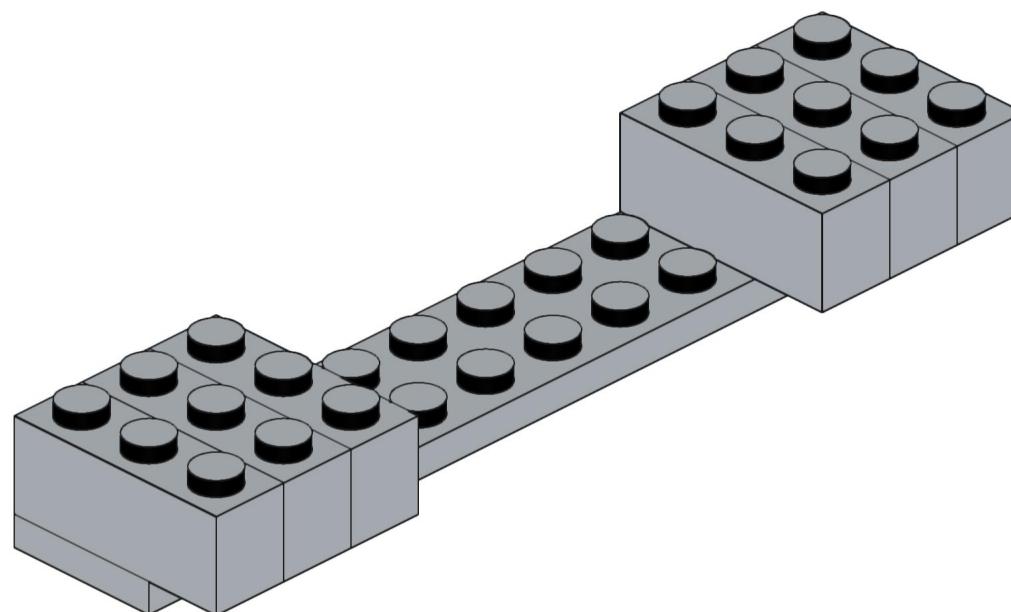
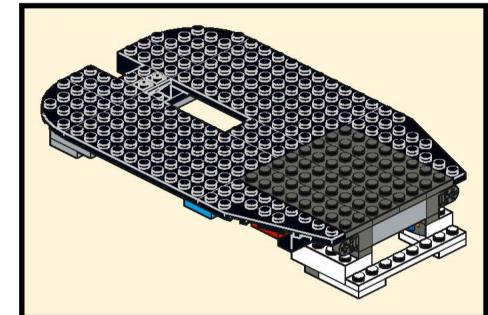
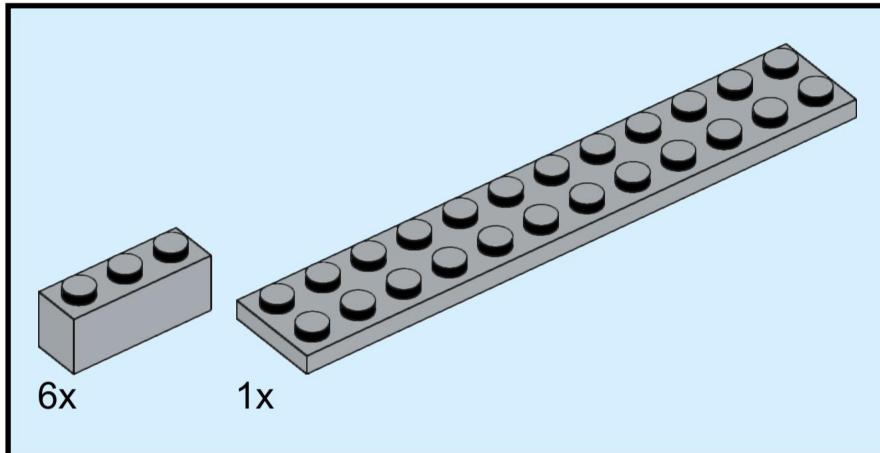
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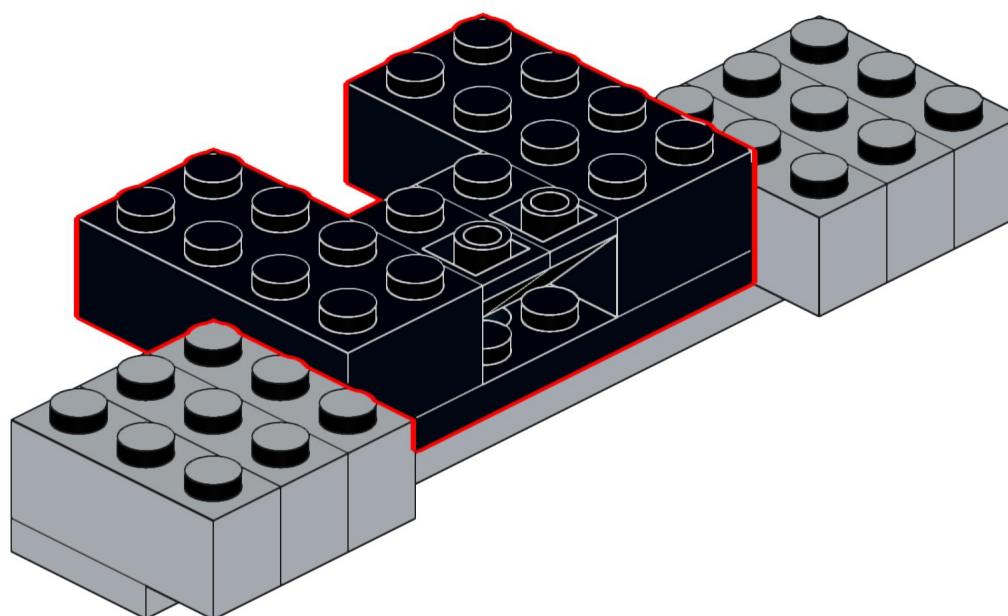
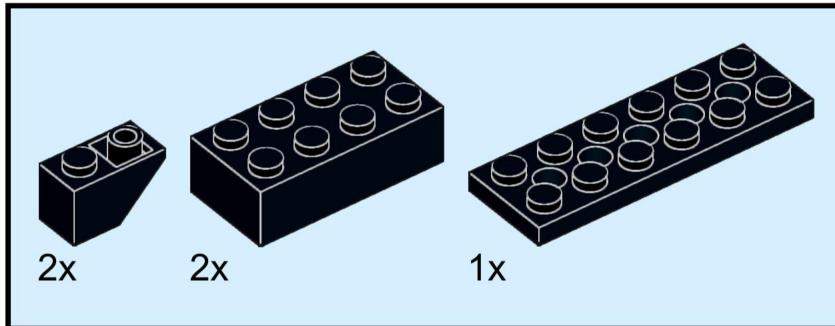
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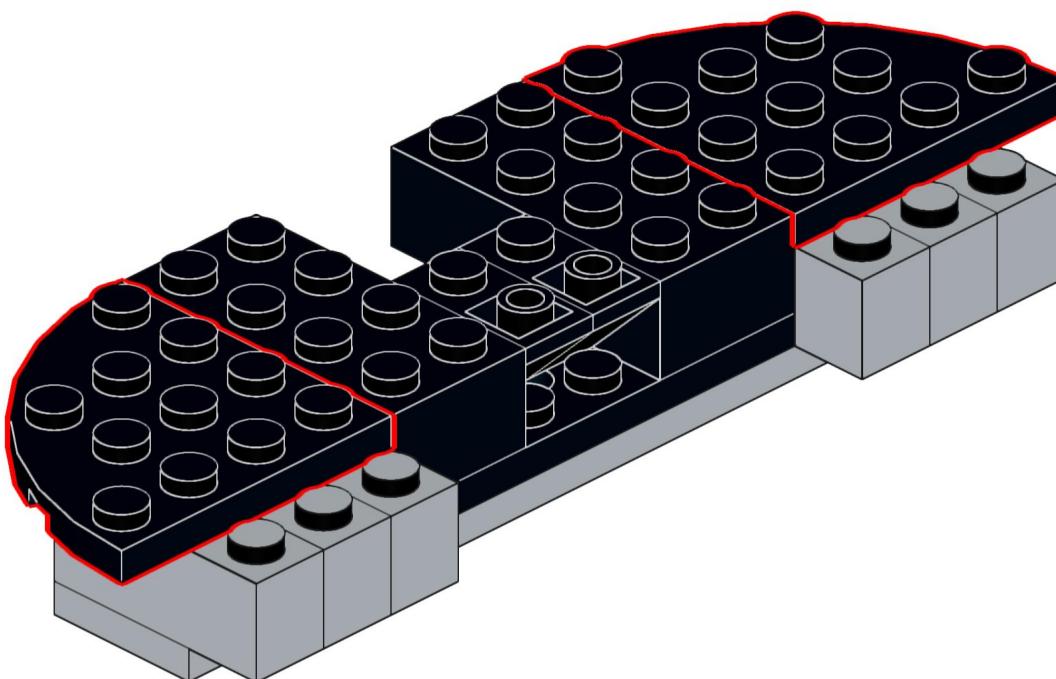
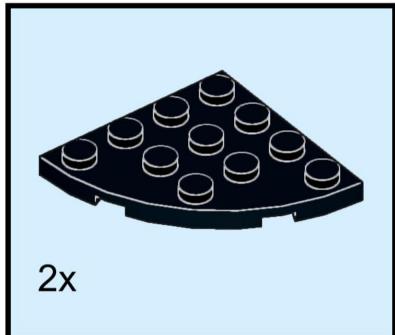
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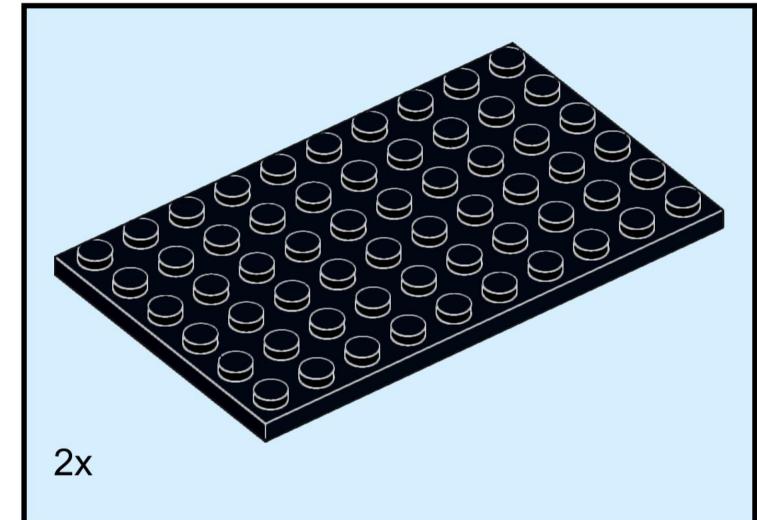
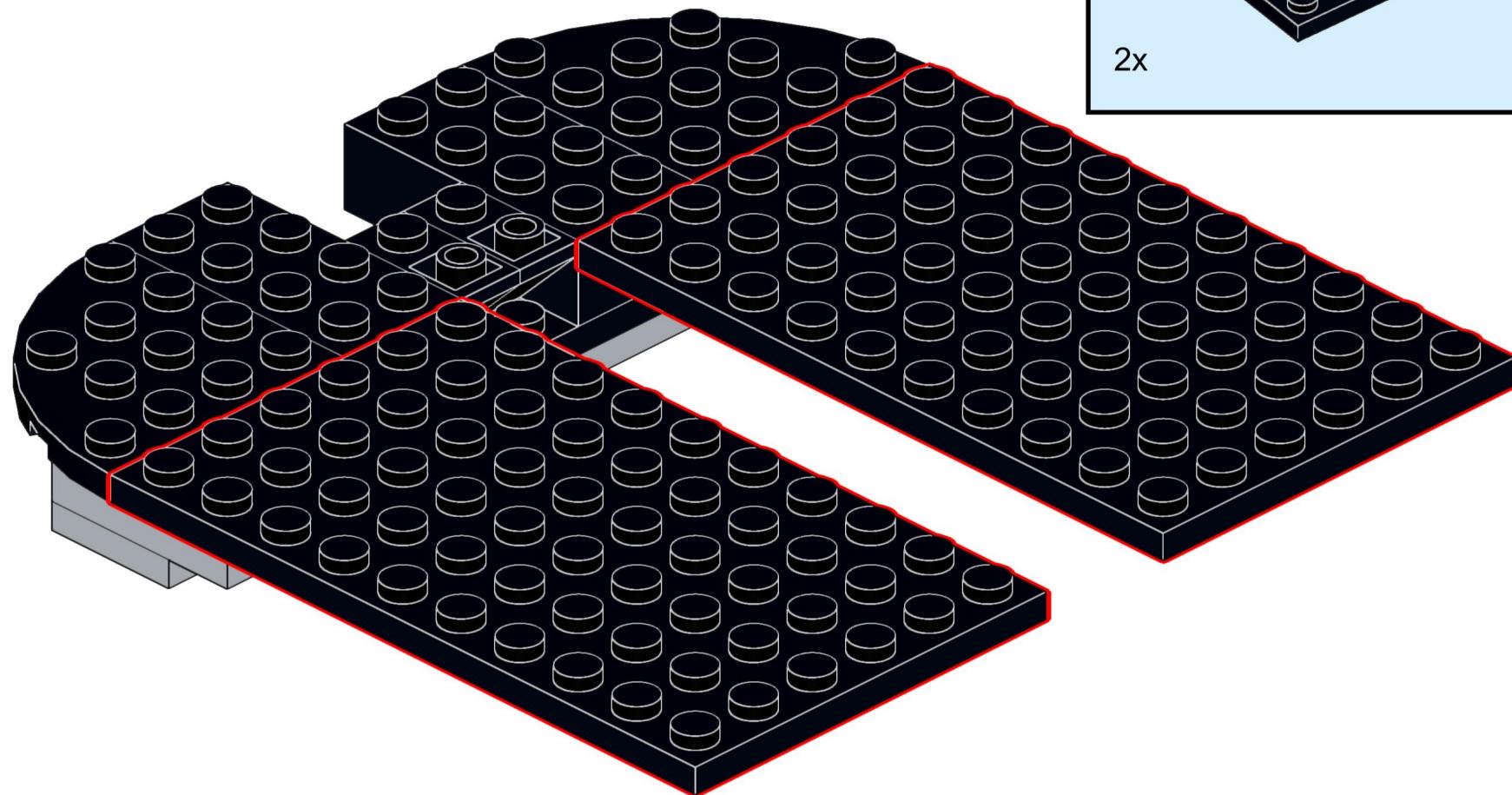
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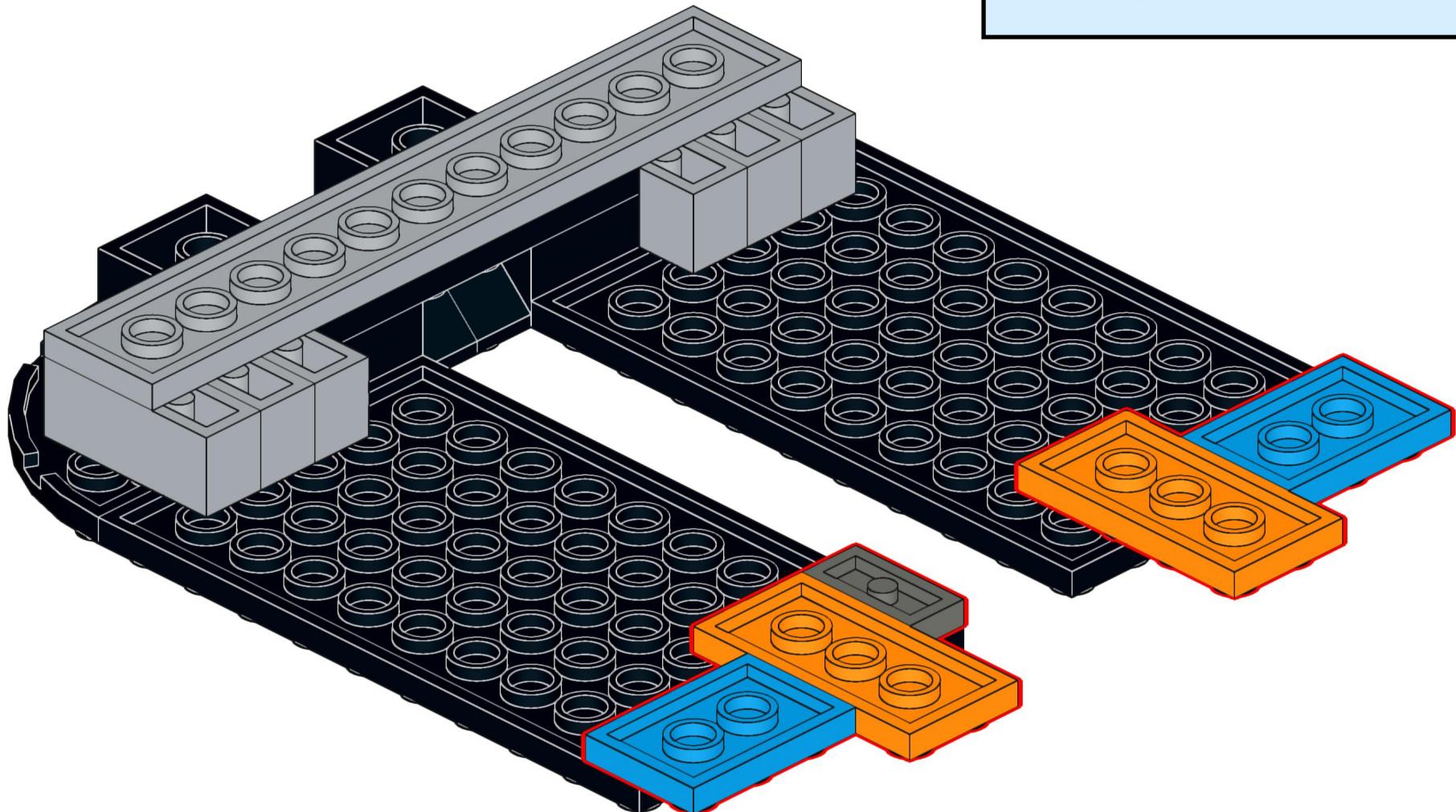
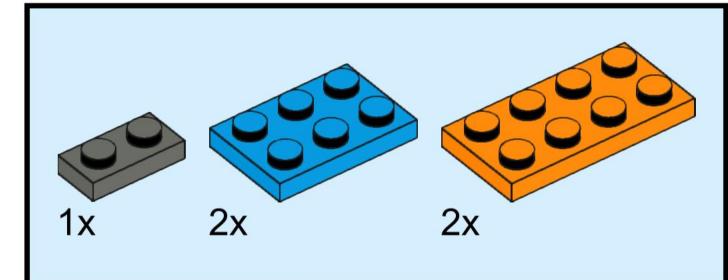
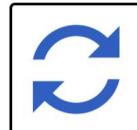
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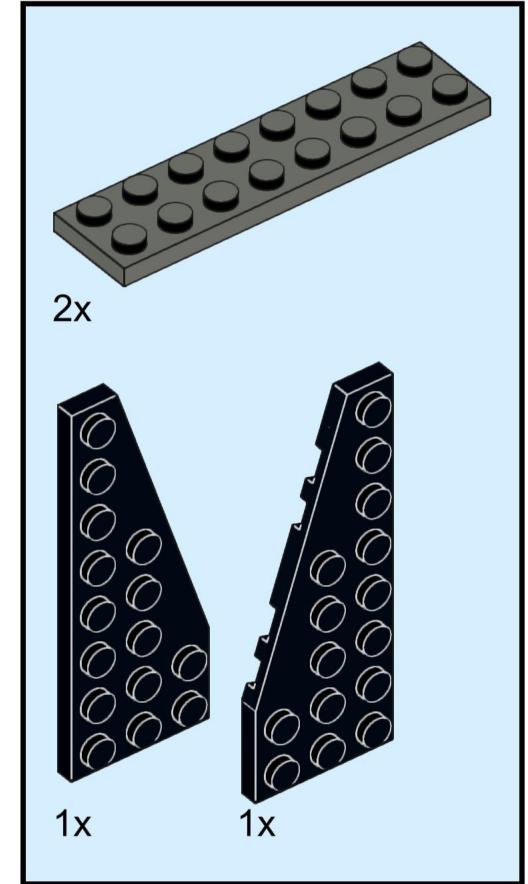
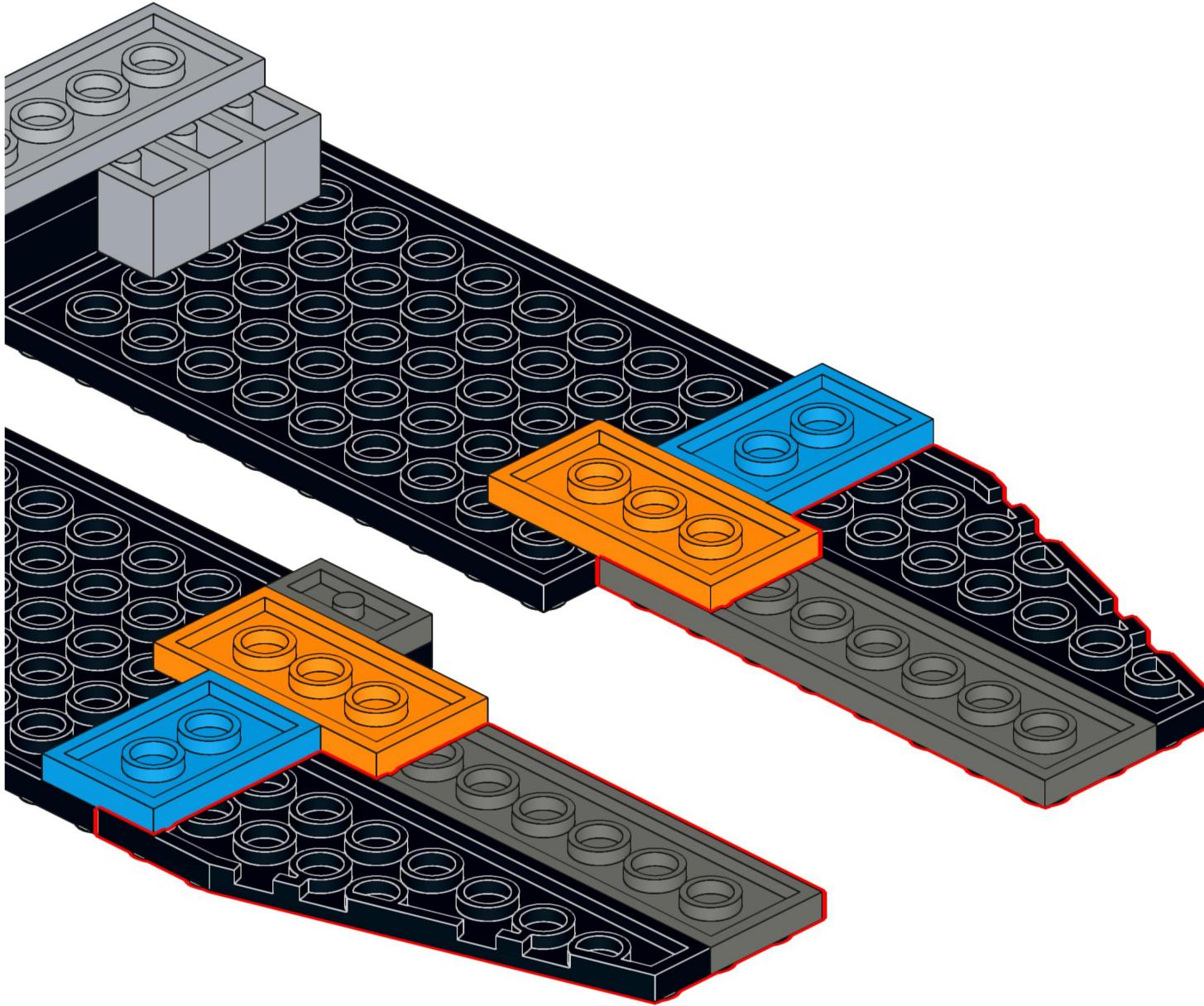


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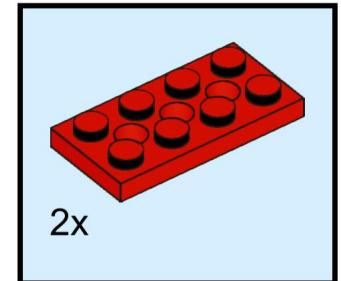
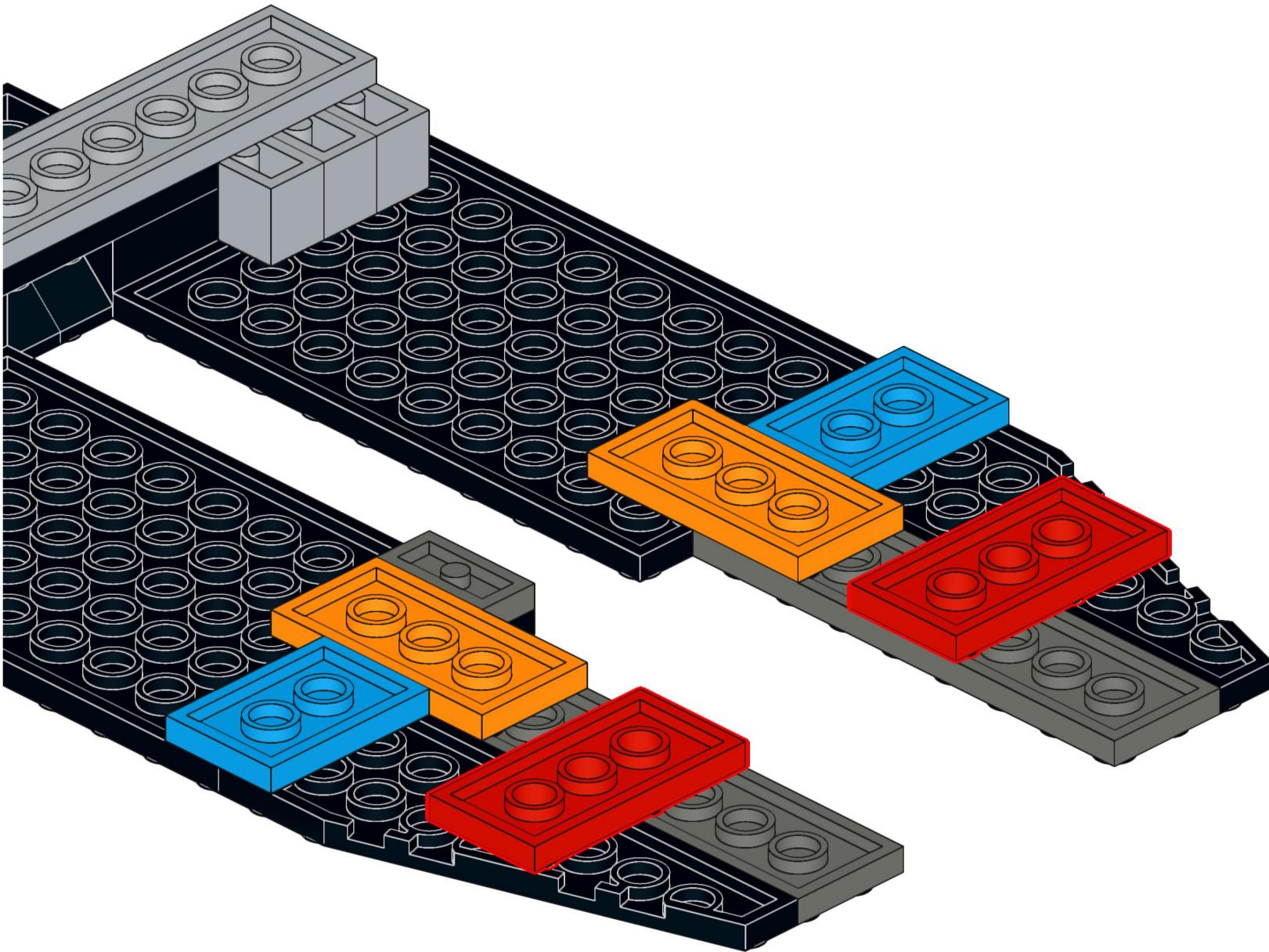


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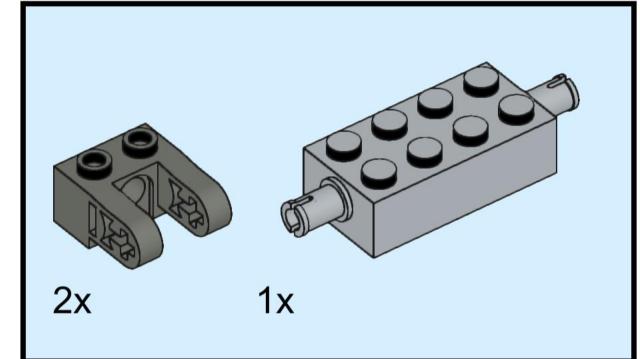
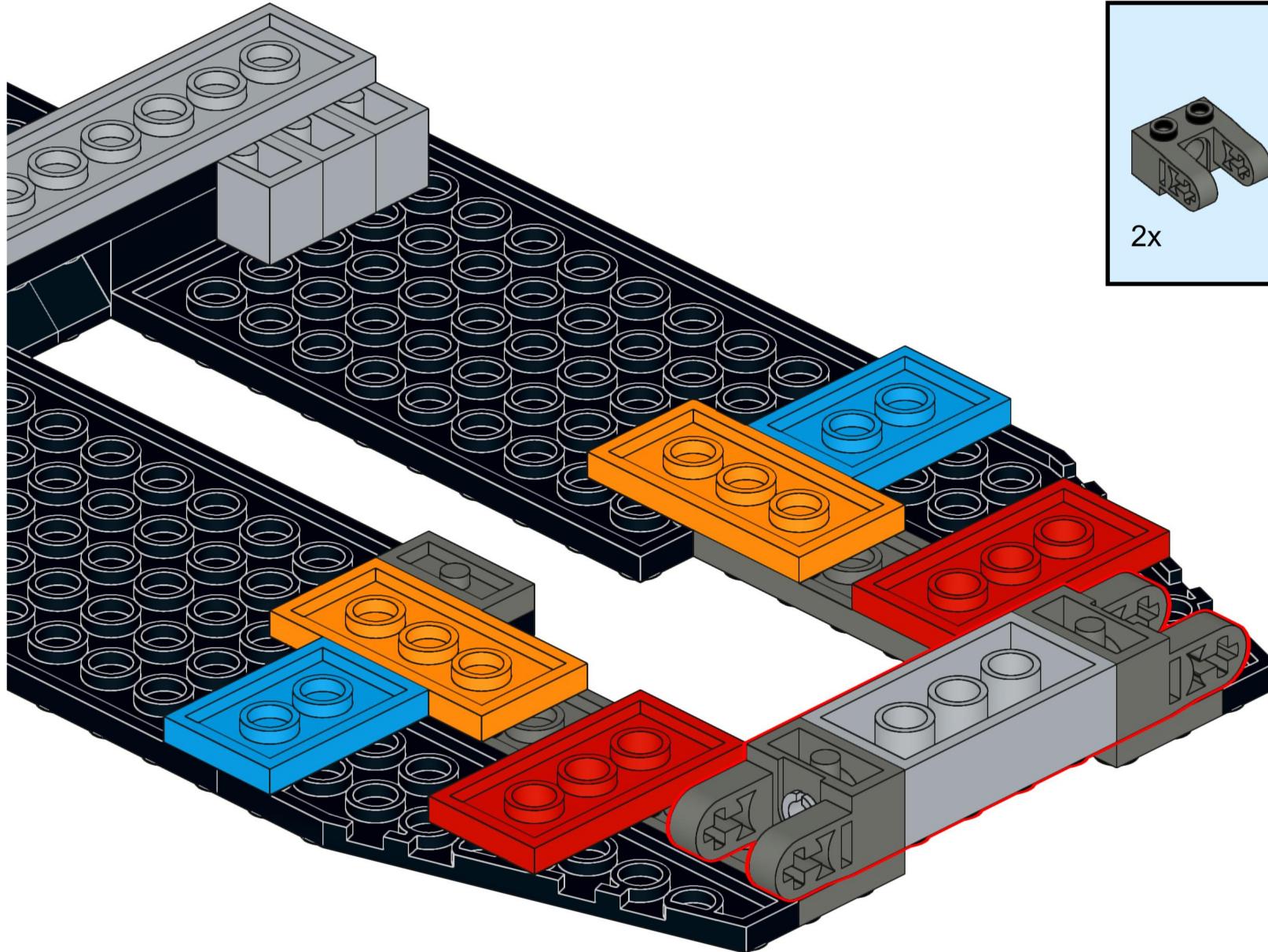




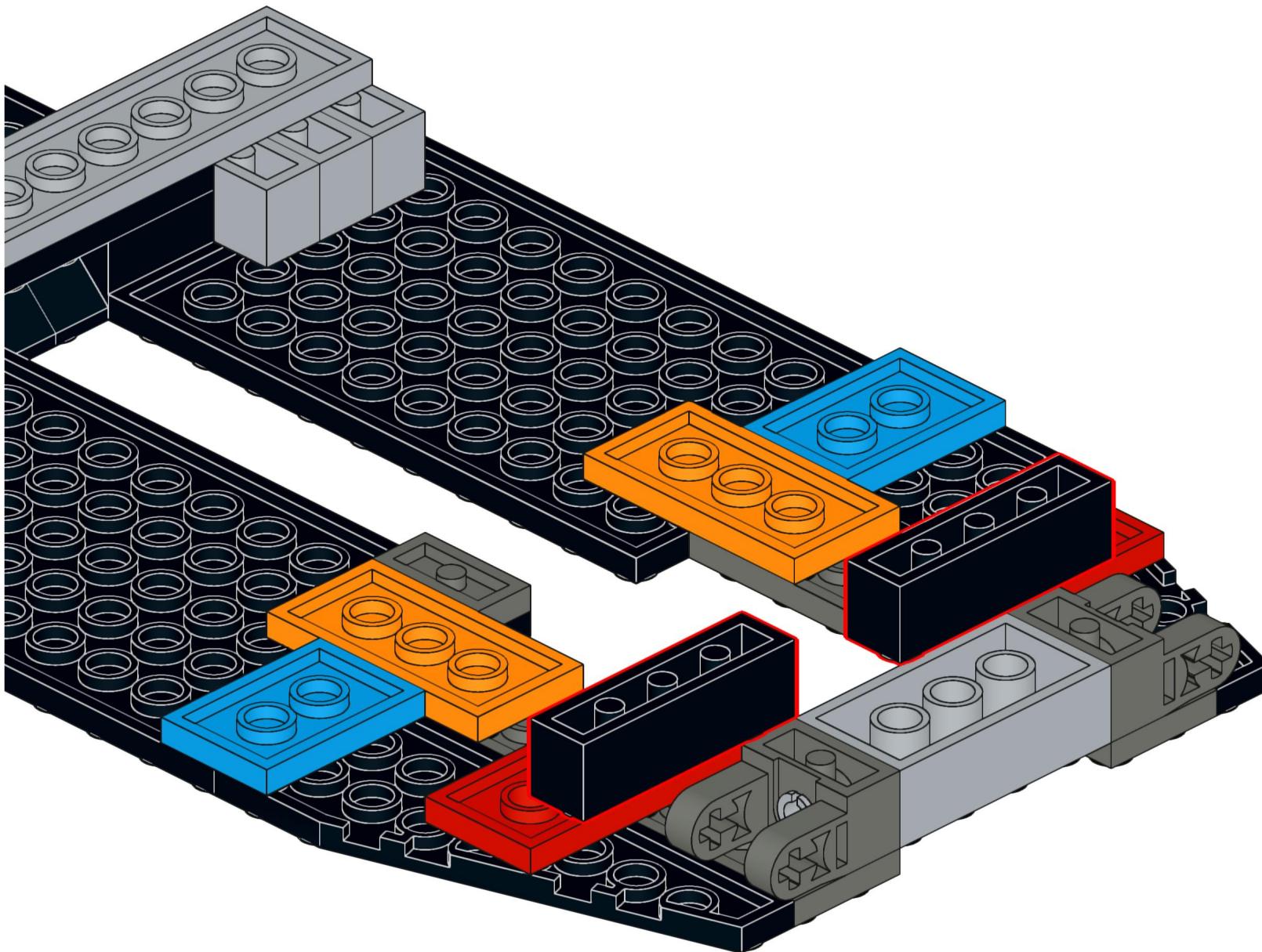
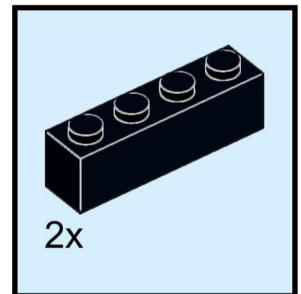
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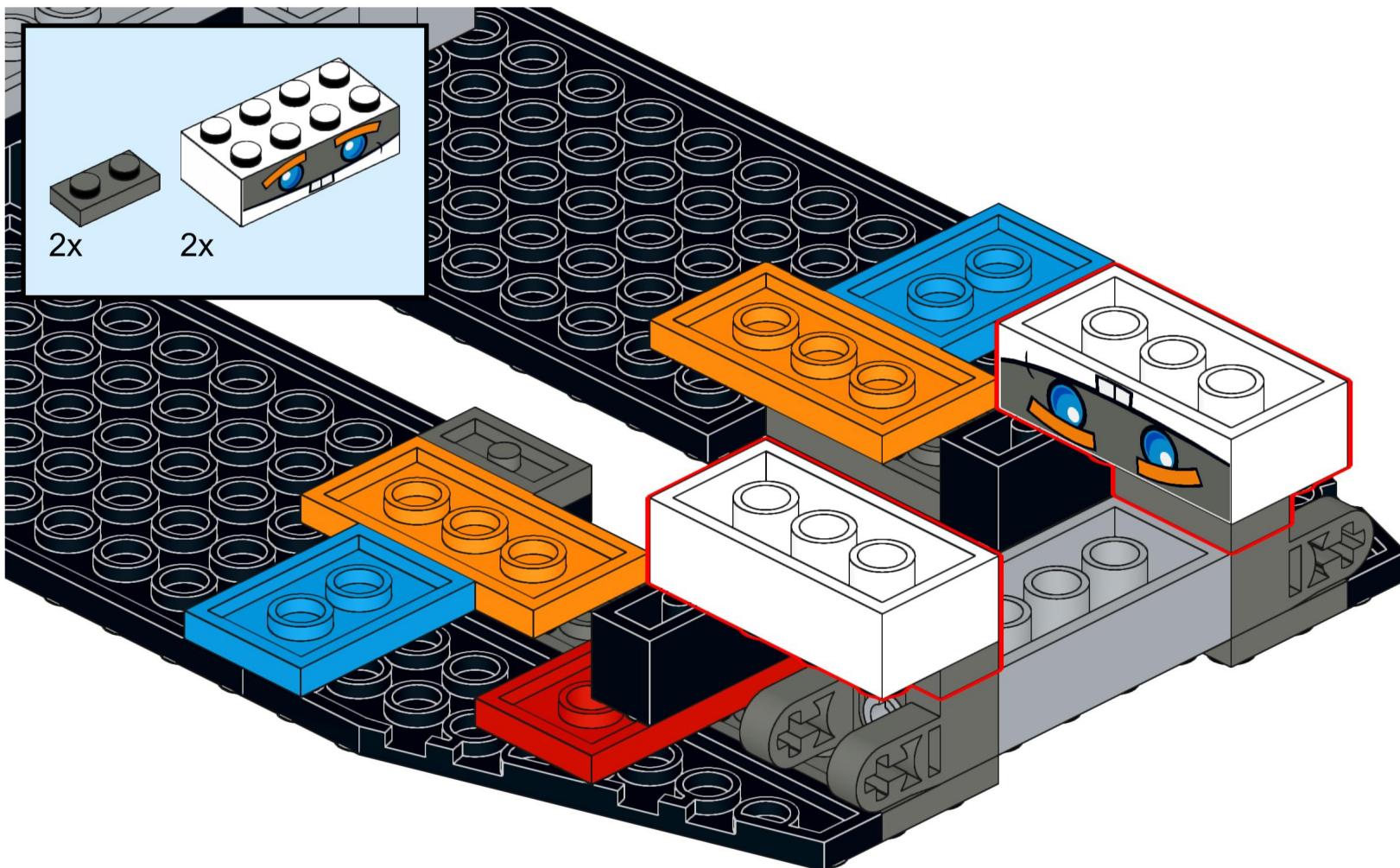


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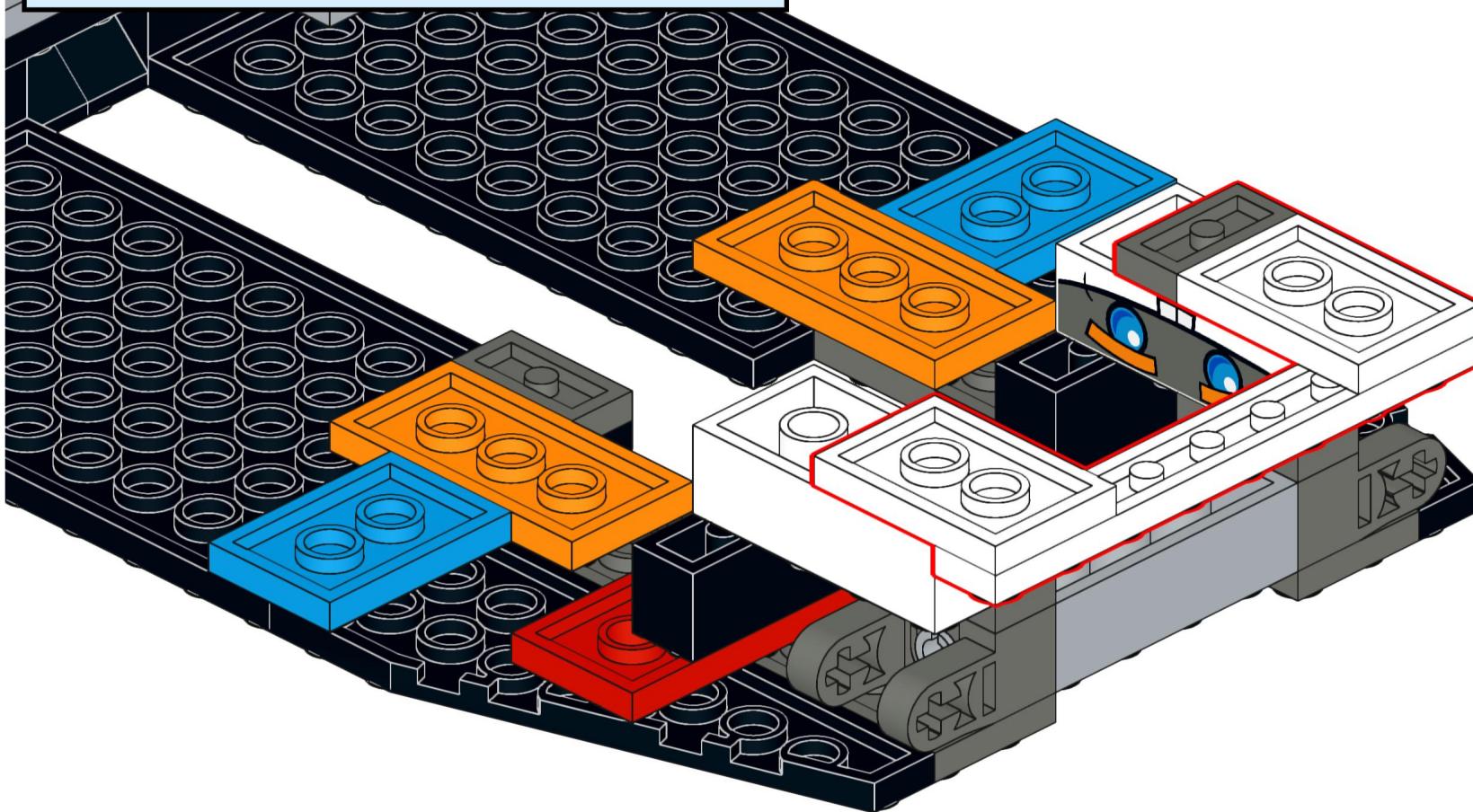
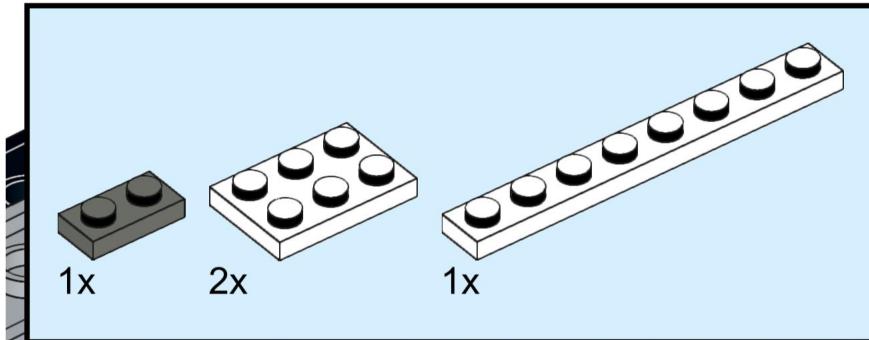


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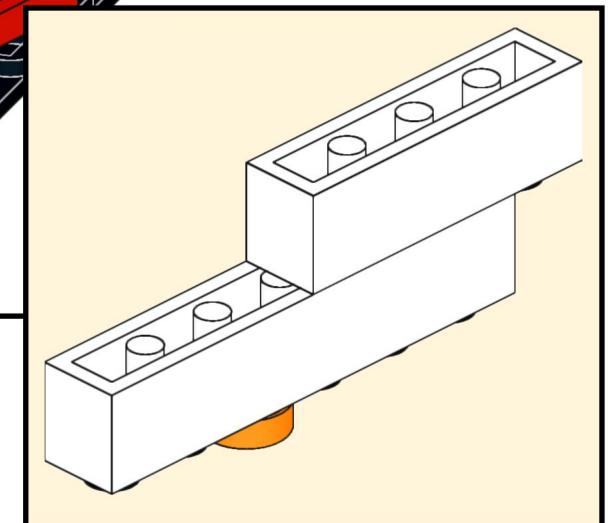
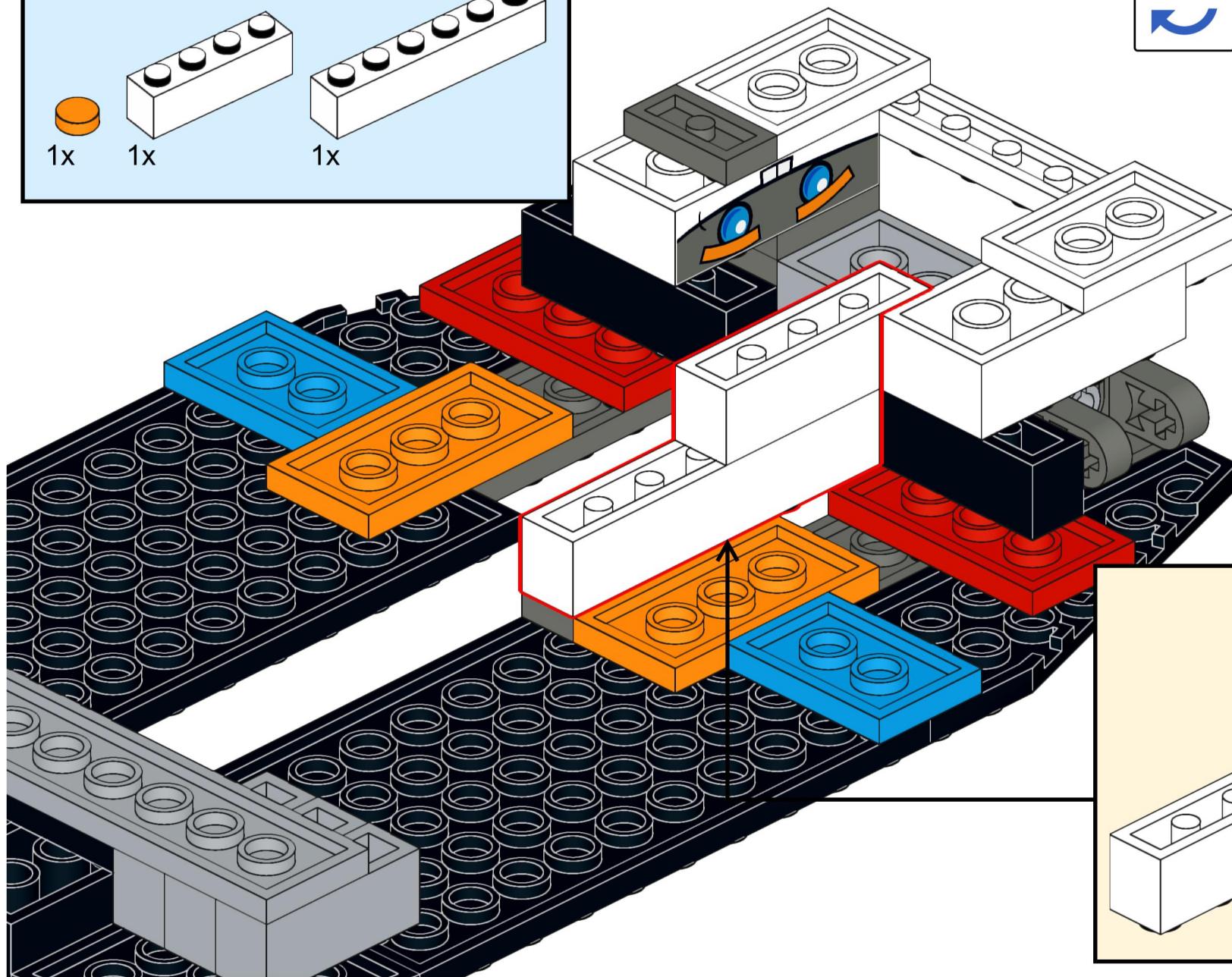
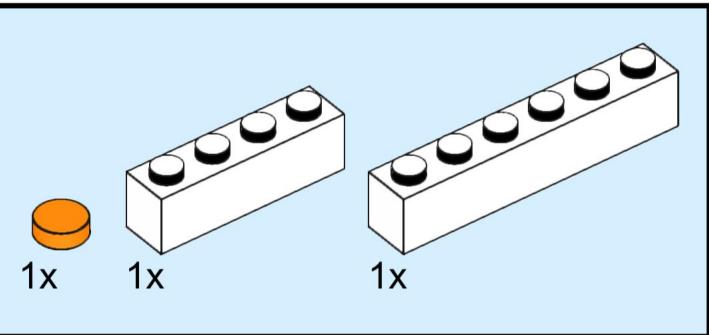
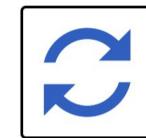
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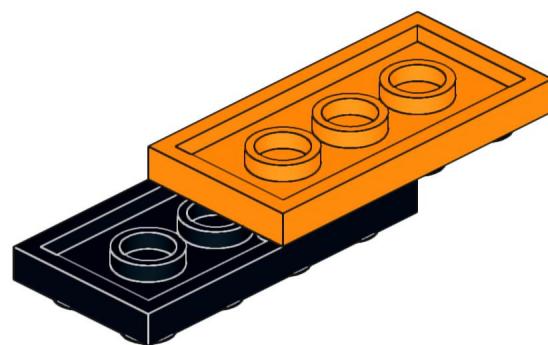
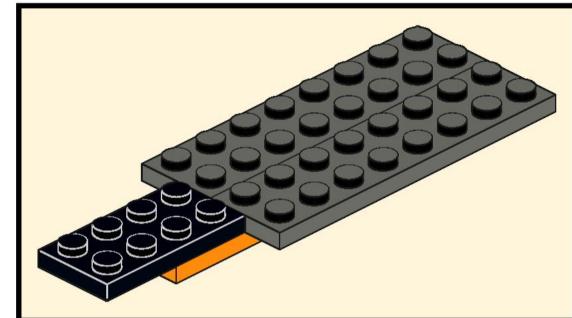
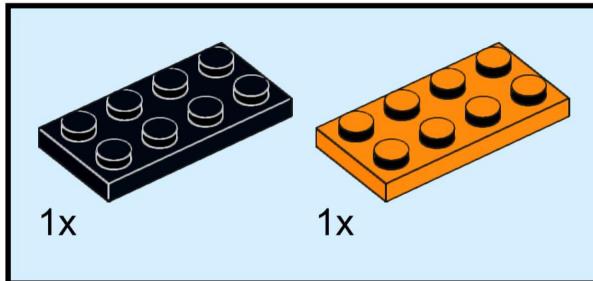
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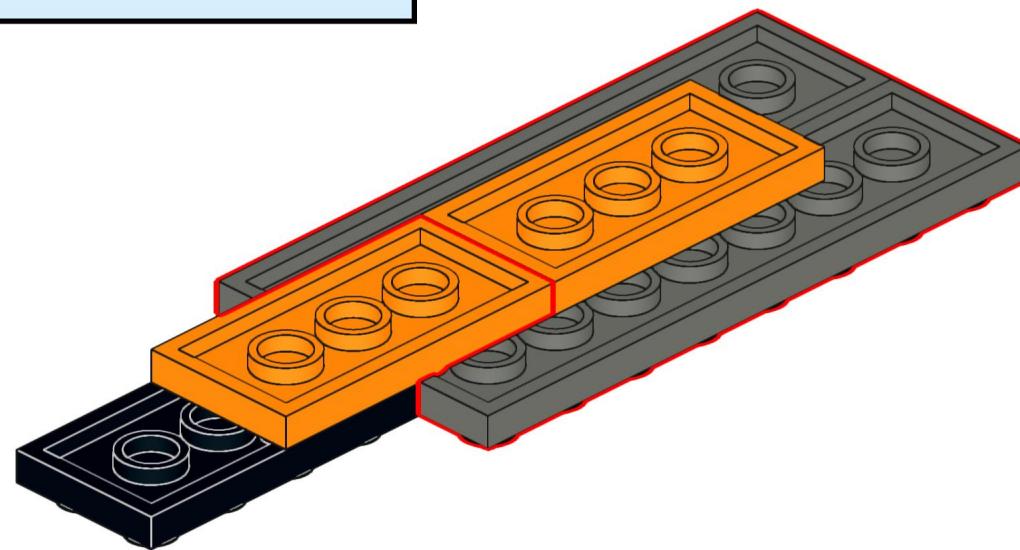
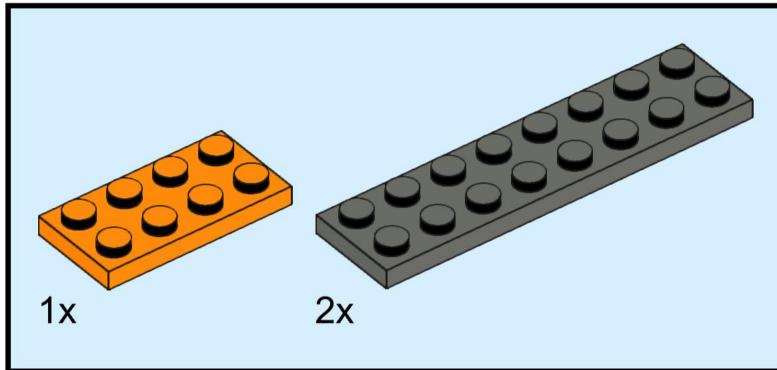
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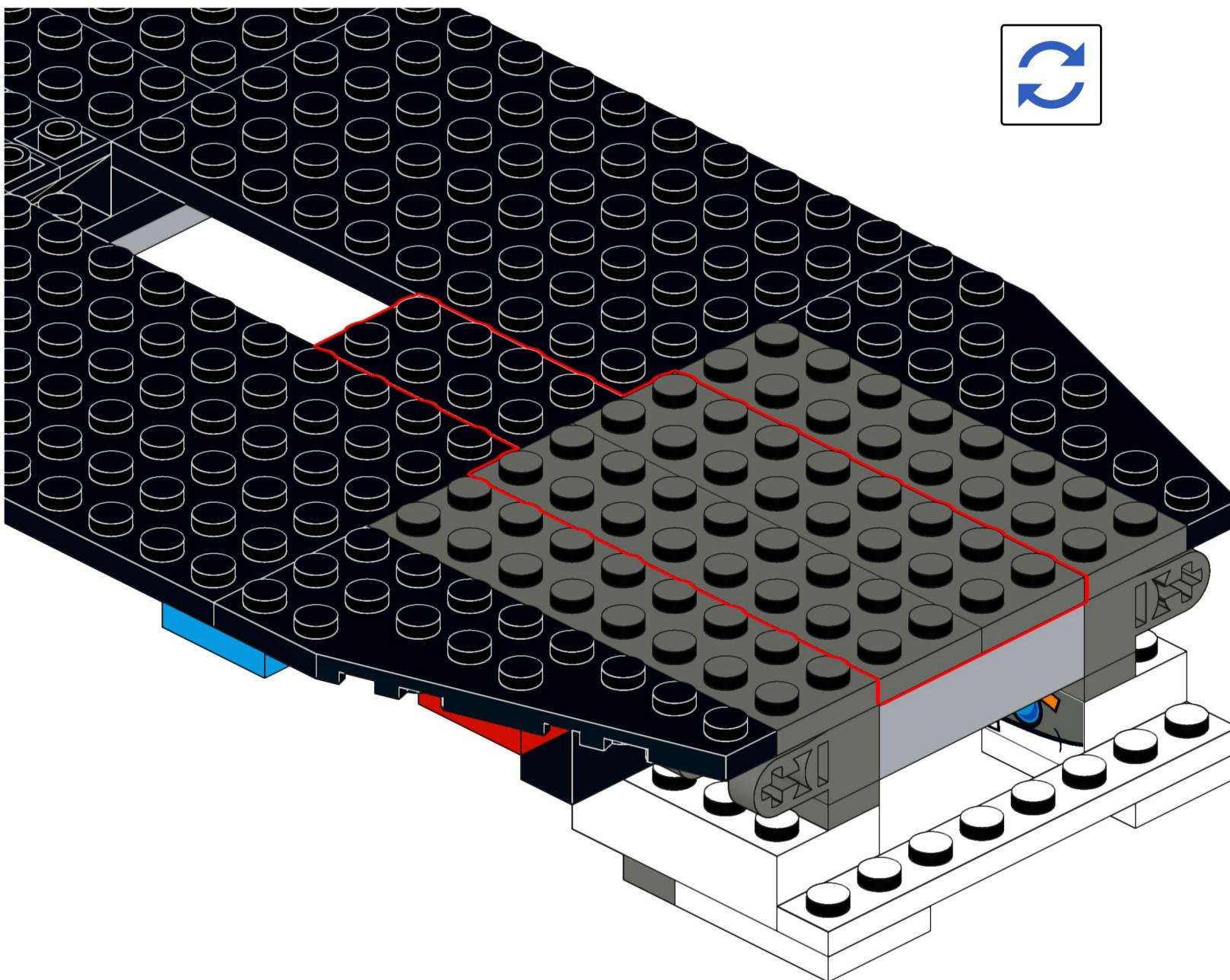


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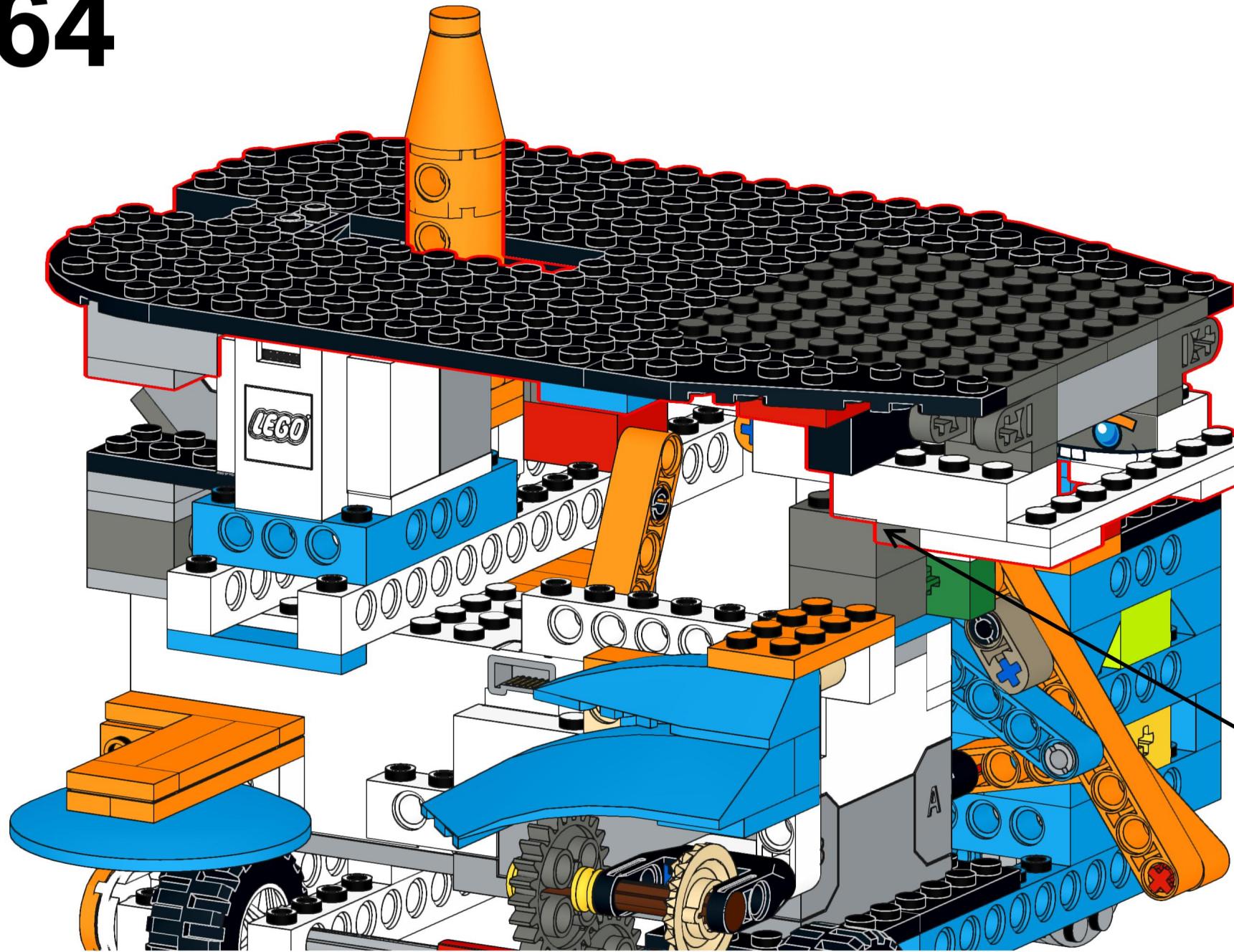




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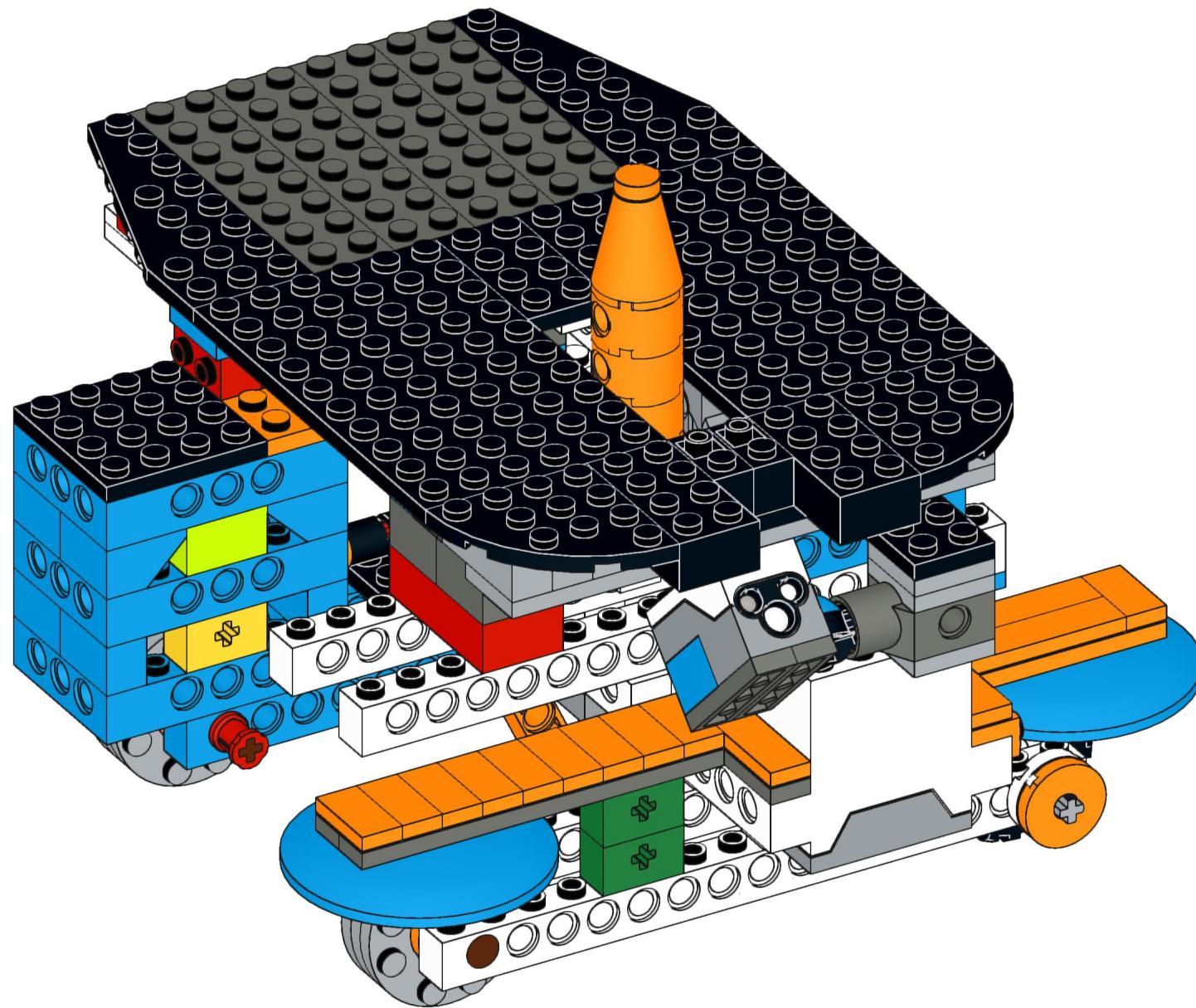


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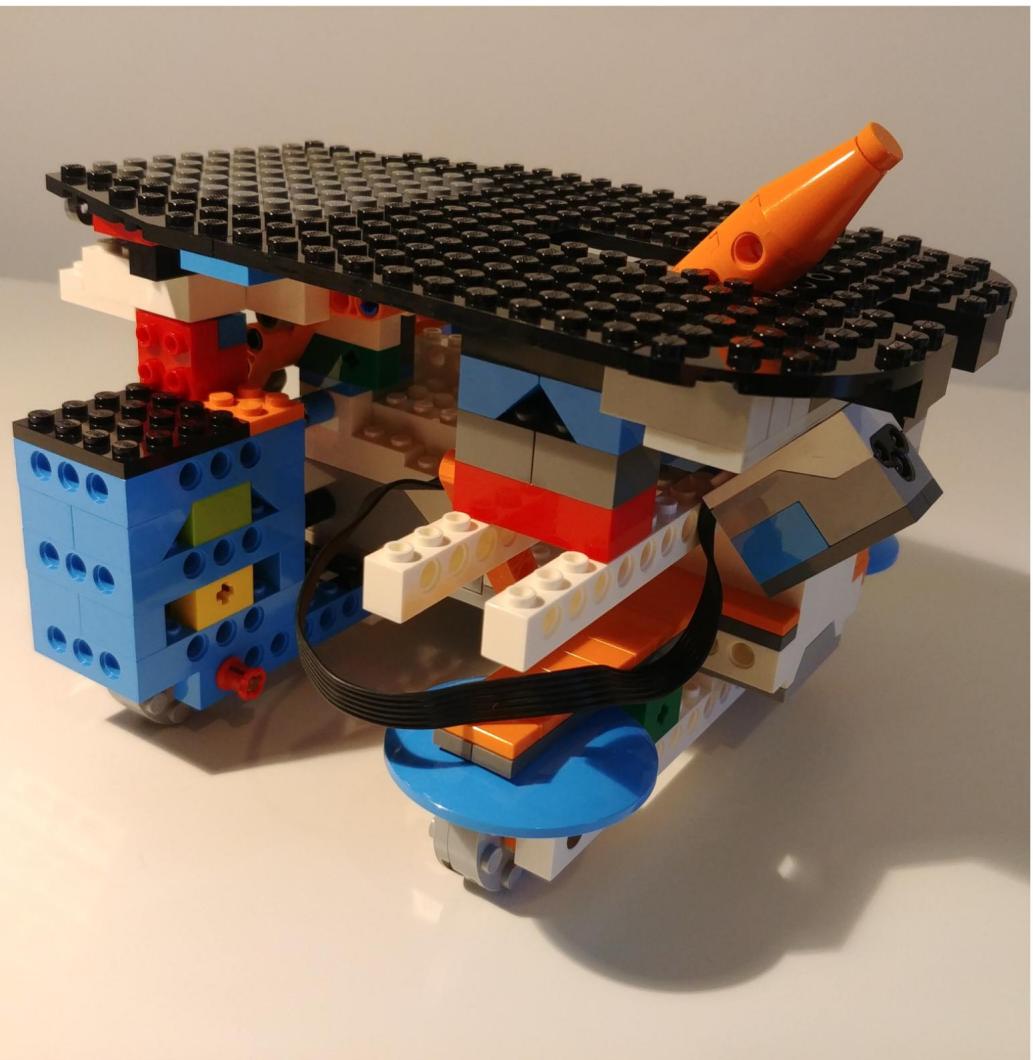
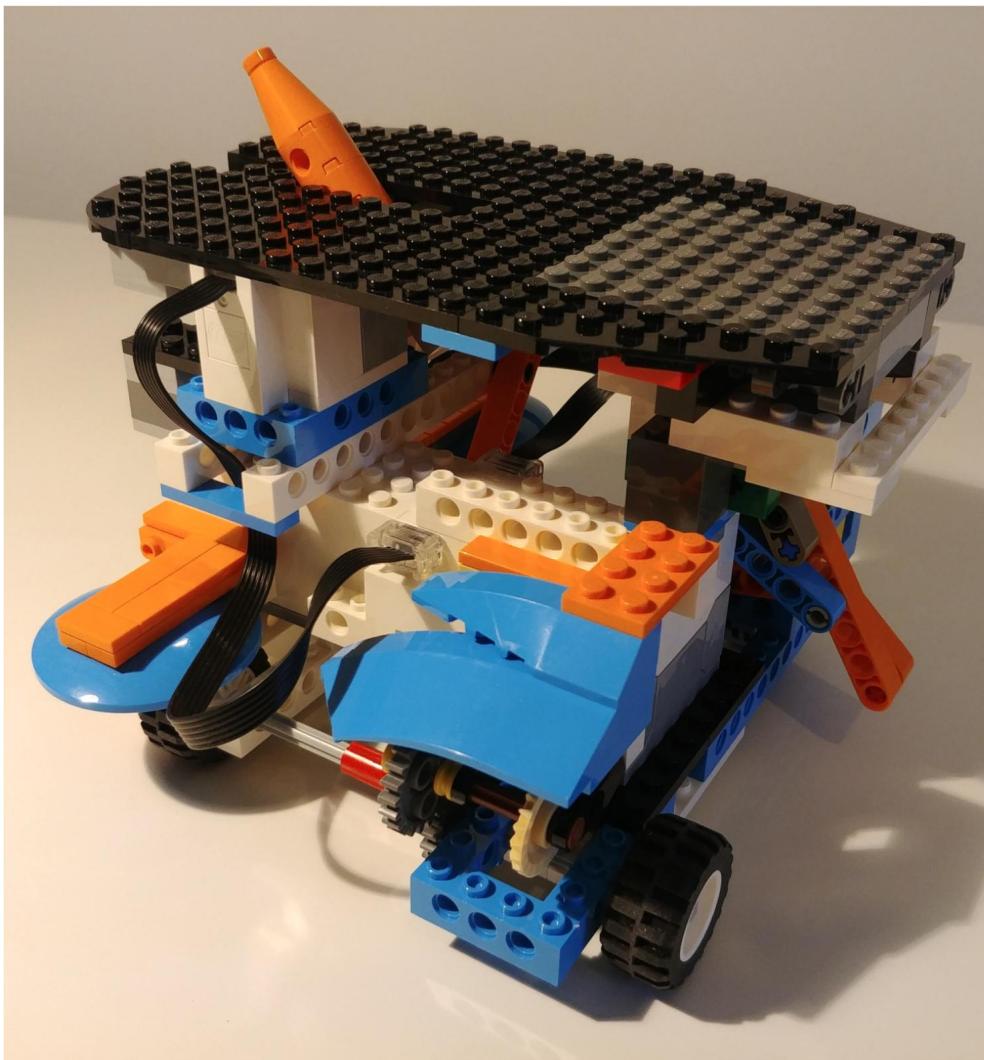


Alignment
point

65



Wiring for motor and sensor



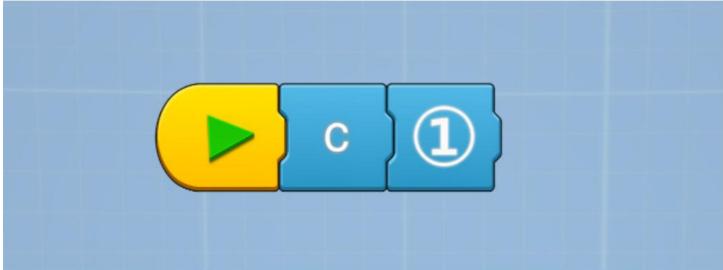
Programming - Functions



c - Calibration function to ensure motors are in right position at start



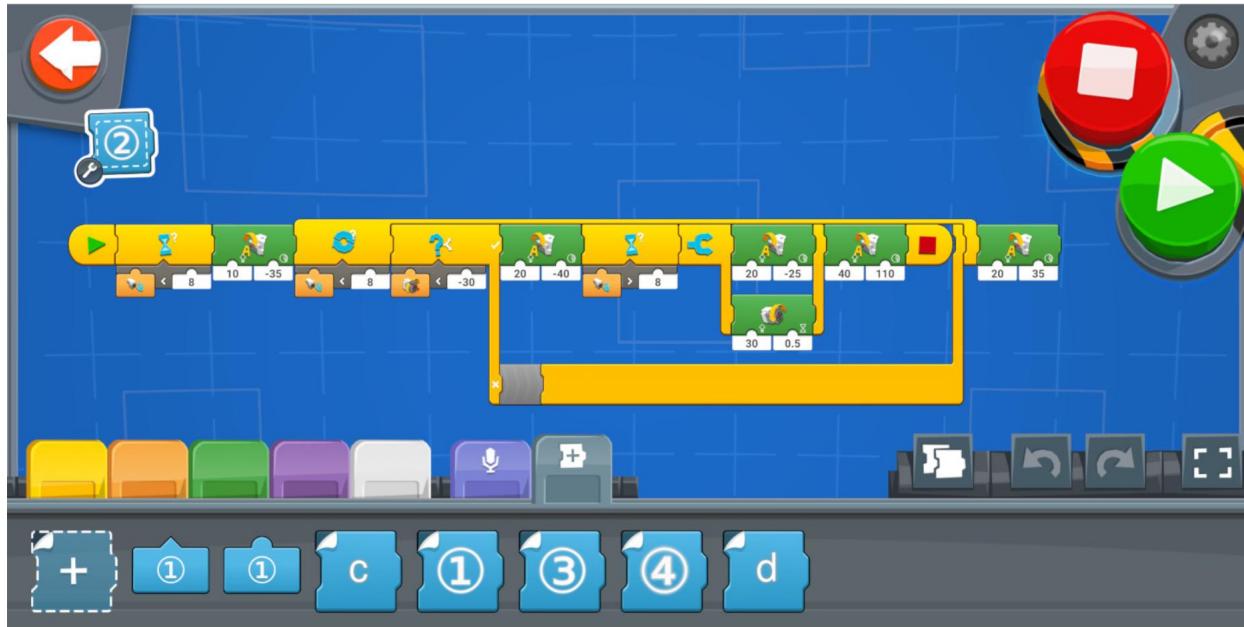
1 - Flick switch back action. It moves the arm out and back but also uses the switch motor to make an easier switching action.



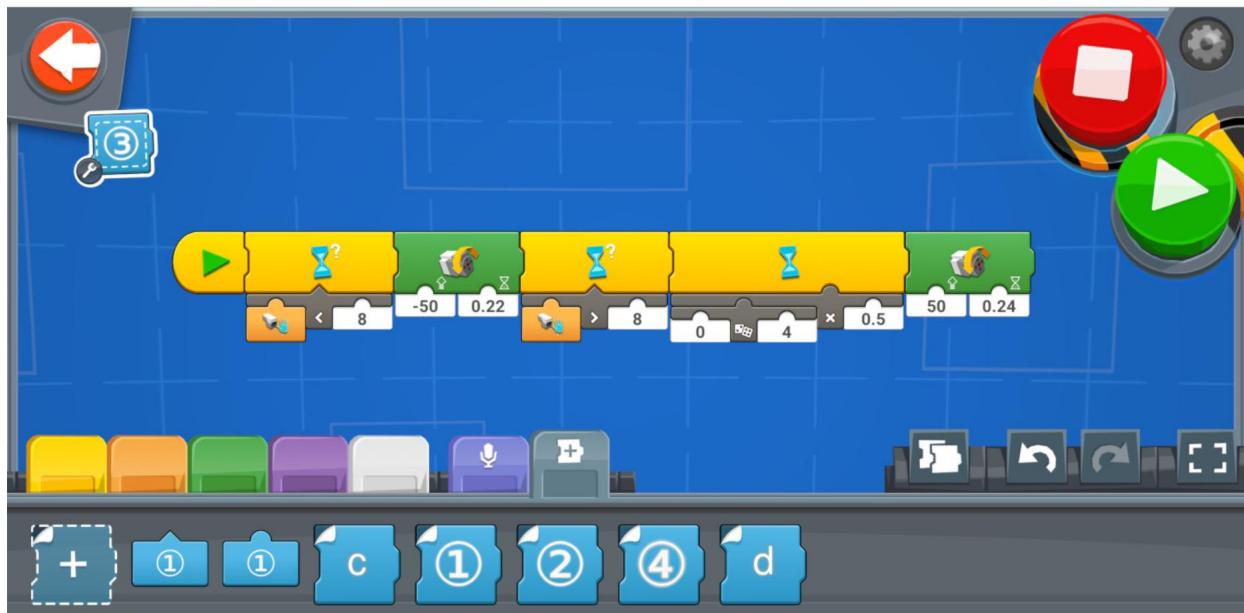
Optional:

You can test the model by running just the calibration and switch pushing function now using this temporary test program. It should set the switch towards the user and then bring up the arm and down.

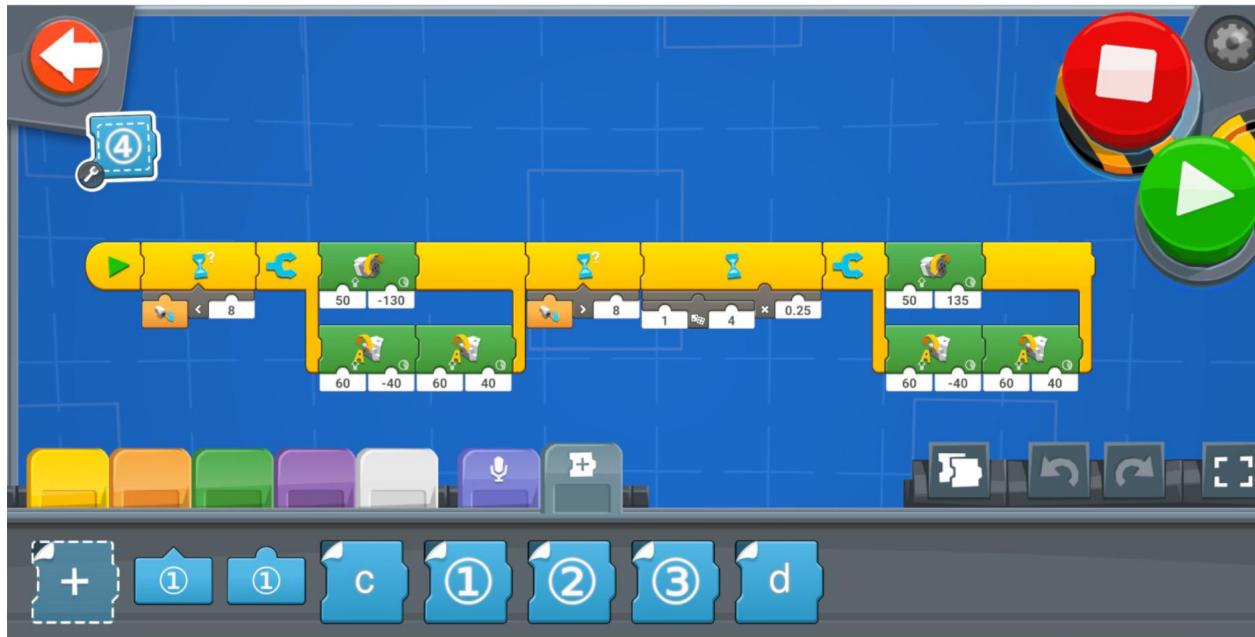
This is useful to ensure the mechanism is working and if you may need to press some parts together to ensure smooth movement.



2 - Waits for the hand to come near and brings arm out slightly. If you take the hand away it will go back down. If you begin to move the switch it will bring the arm up further to block. On removal of the hand it will push switch back.



3 - When the hand comes near it will flick the switch for you. When it goes away the switch goes back after a random delay.



4 - When the hand comes close it will hide the switch by raising the arm slightly and turning it down and then lowering the arm to close the door. When the hand is removed it will return the switch after a random delay.



d - Drive. When the hand comes close it will drive to the right. When it comes close again it will drive back (so is back in original position).

Main Program

Calibrates the motors and plays a sound so you know when it is ready.

Detects if the switch is moved and calls the switch back function (1) to return it.

Other actions are chained together with repetitions and finishes with the final hiding of the switch. The sequence can be adjusted how you like and could repeat or be made random as each action finishes with the switch back to the starting position.

January 2021

