



What will the children gain?

Build and program, let children learn structural principles, electronic knowledge and programming knowledge from cases.

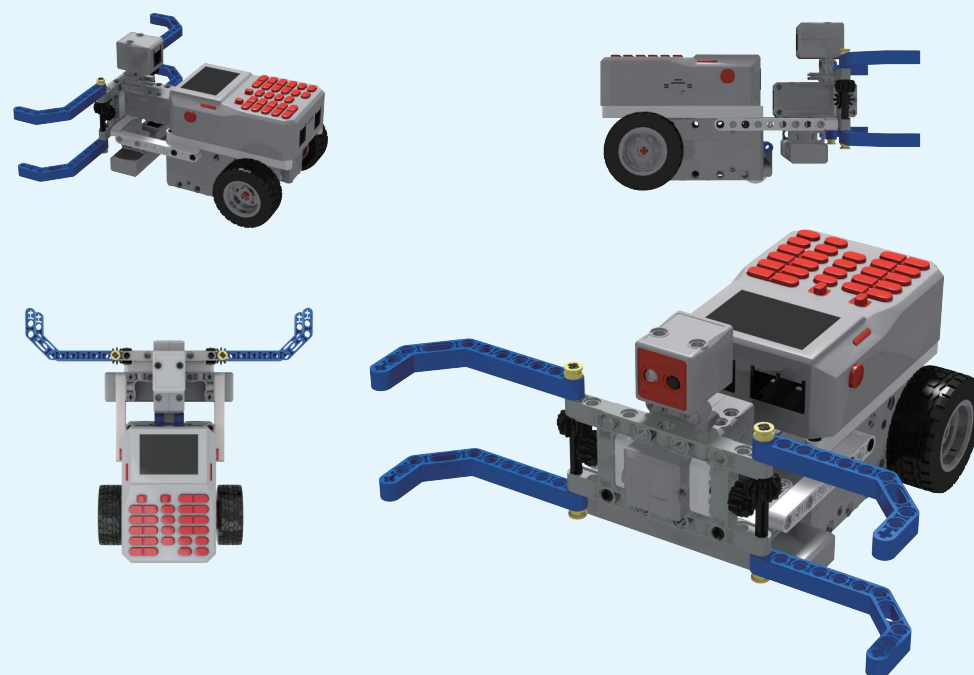
Multi-functional robot

Construction difficulty:★★★★

Programming difficulty:★★★★

1 Course introduction

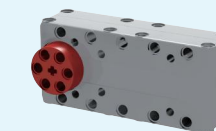
We have seen many robots with a single function. Some of them can patrol the line and some can avoid obstacles. Today we will build a multi-functional robot that integrates line patrol, movement, obstacle avoidance and grasping functions.



2 Parts list



Master control



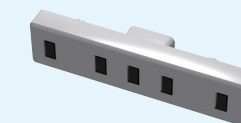
Closed loop motor



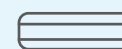
Steering engine

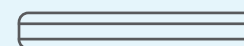


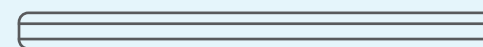
Infrared obstacle avoidance



Five shades of gray

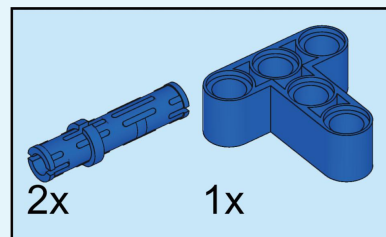
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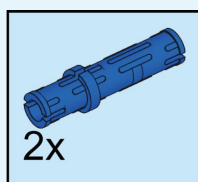
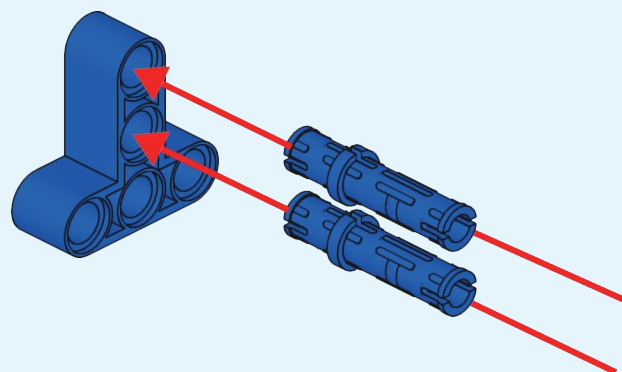
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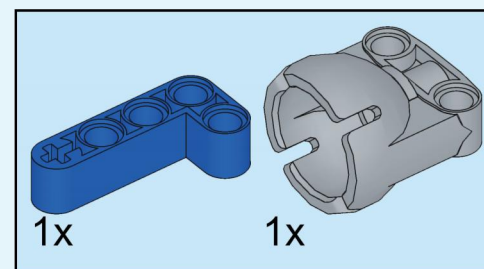
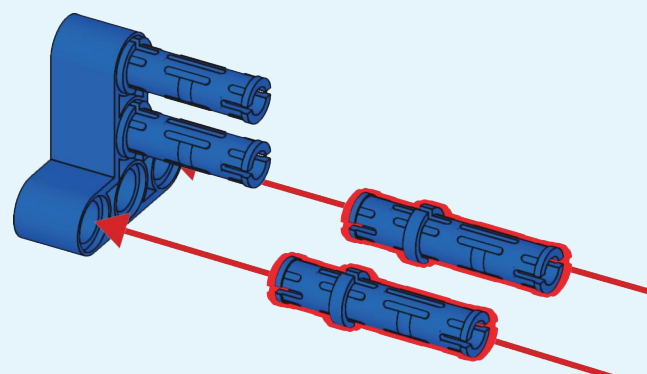
Construction steps: items with this icon need to be flipped. Accessories include decorative parts, which can be decorated by themselves.



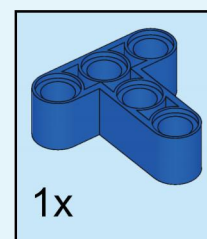
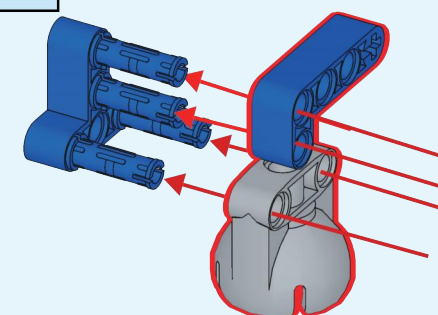
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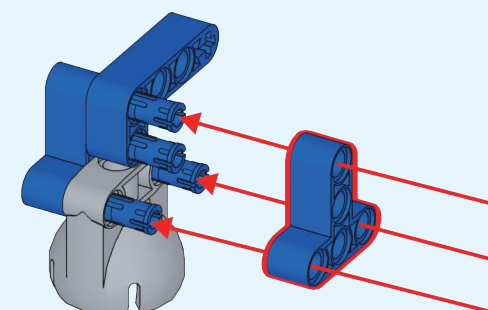
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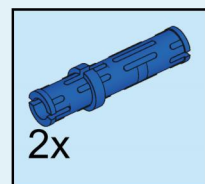


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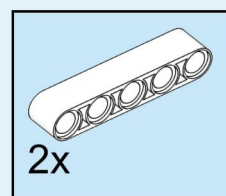
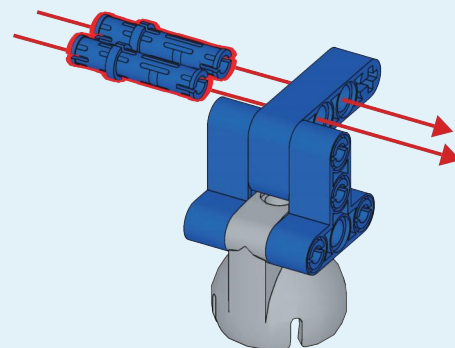


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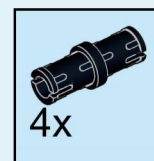
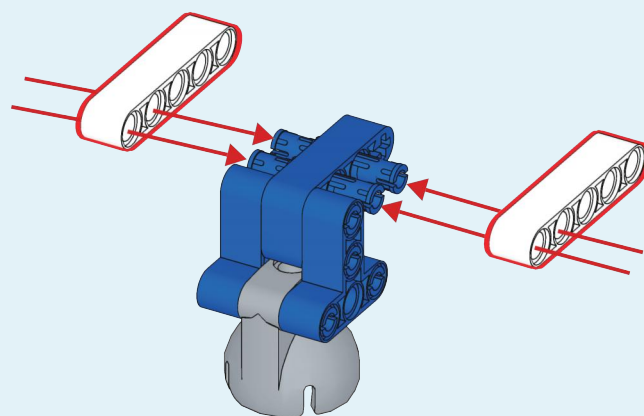




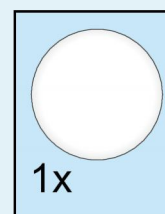
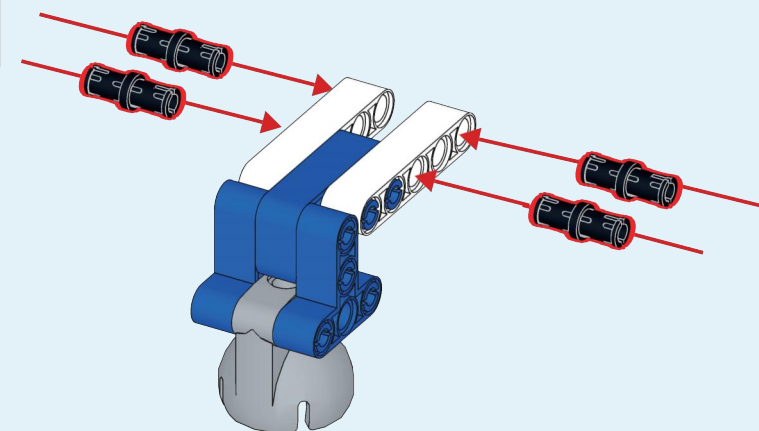
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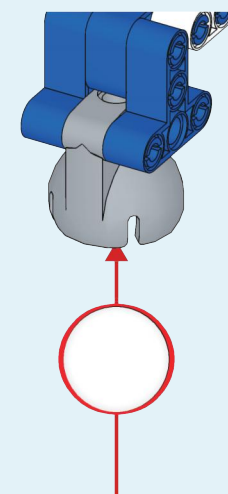
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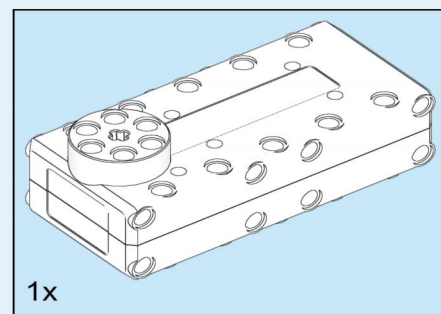


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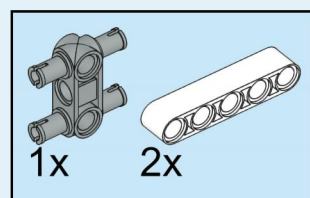
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1x

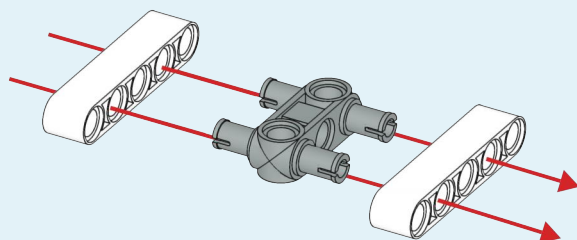
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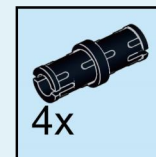
1x

2x

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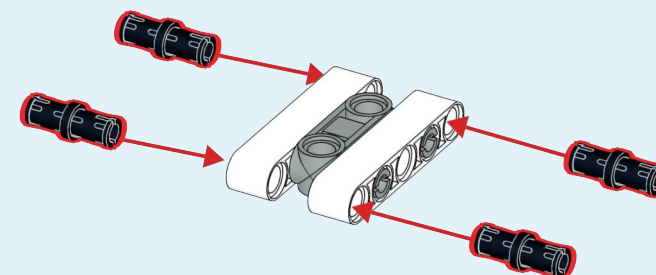


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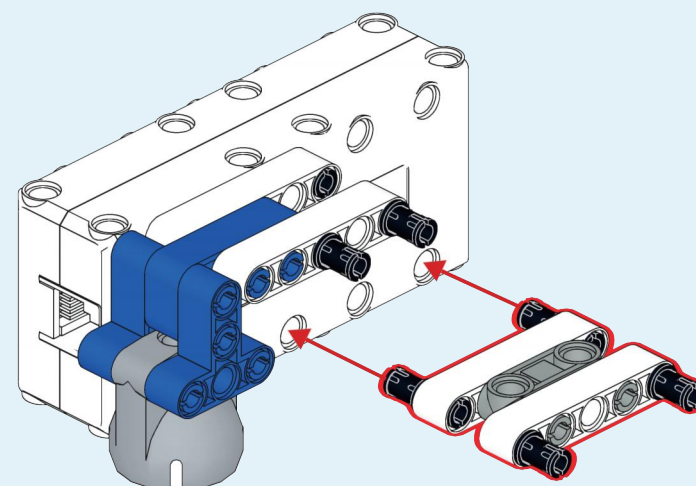


4x

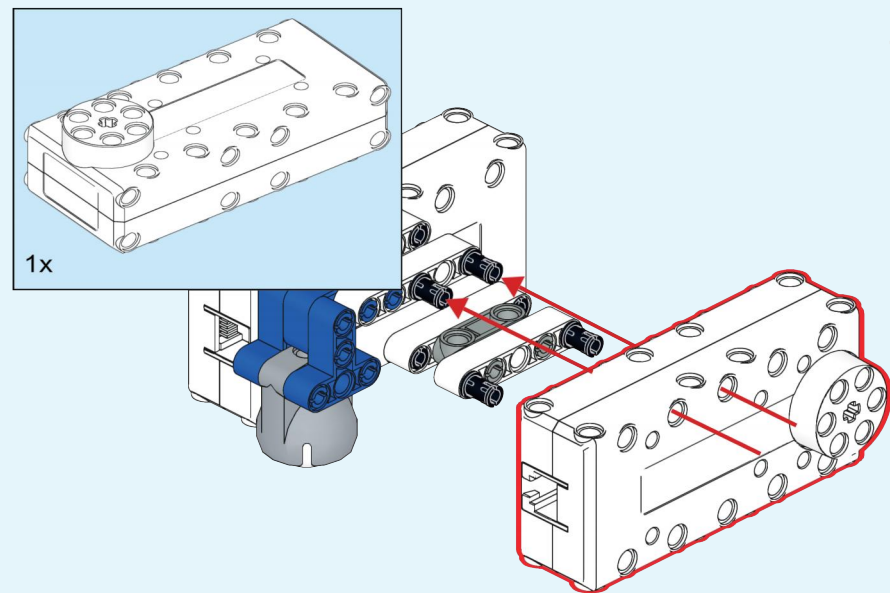
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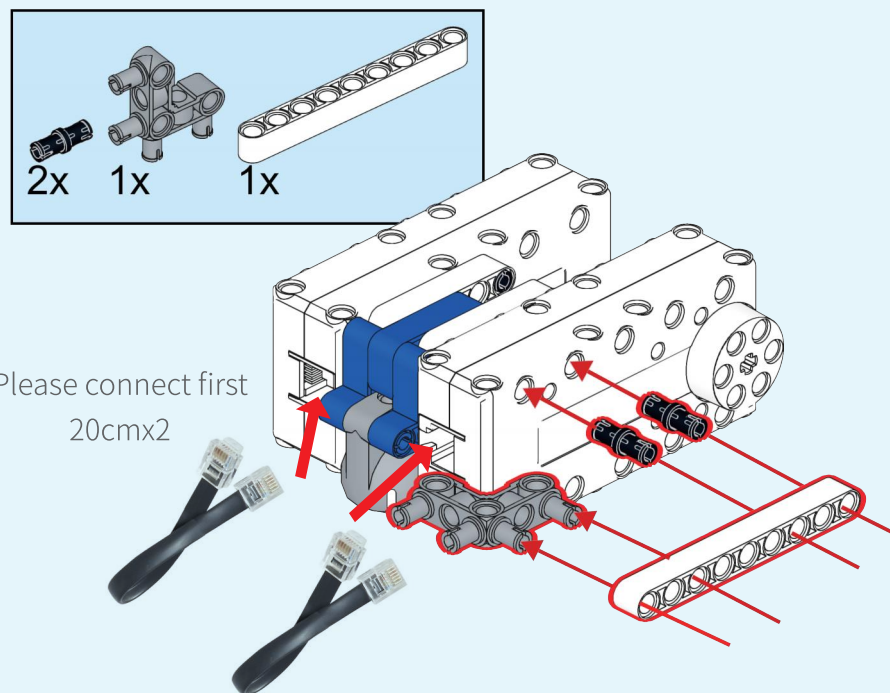
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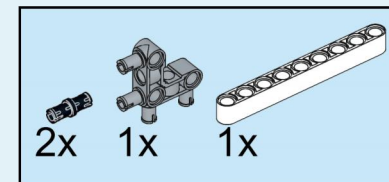


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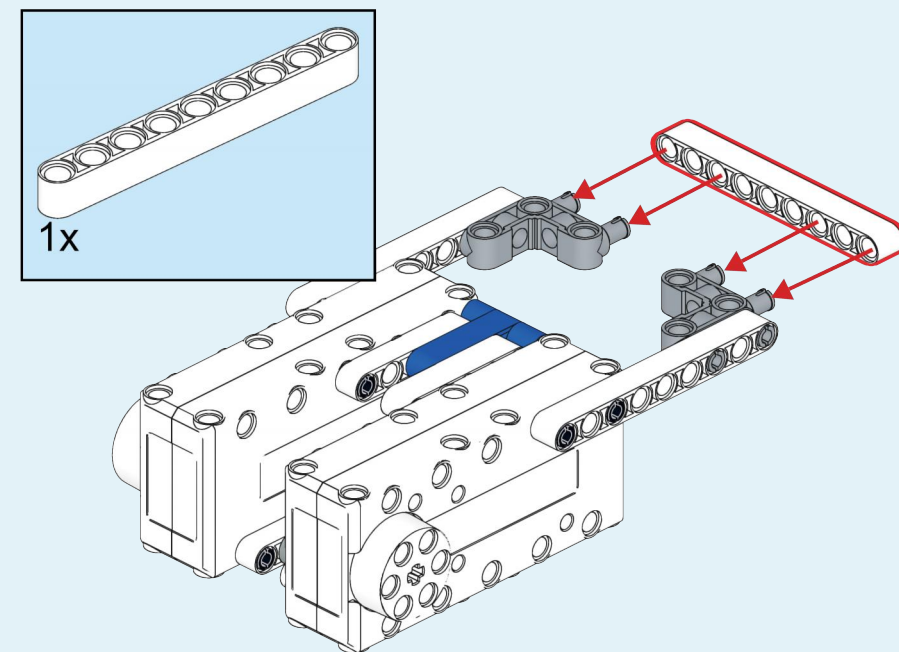


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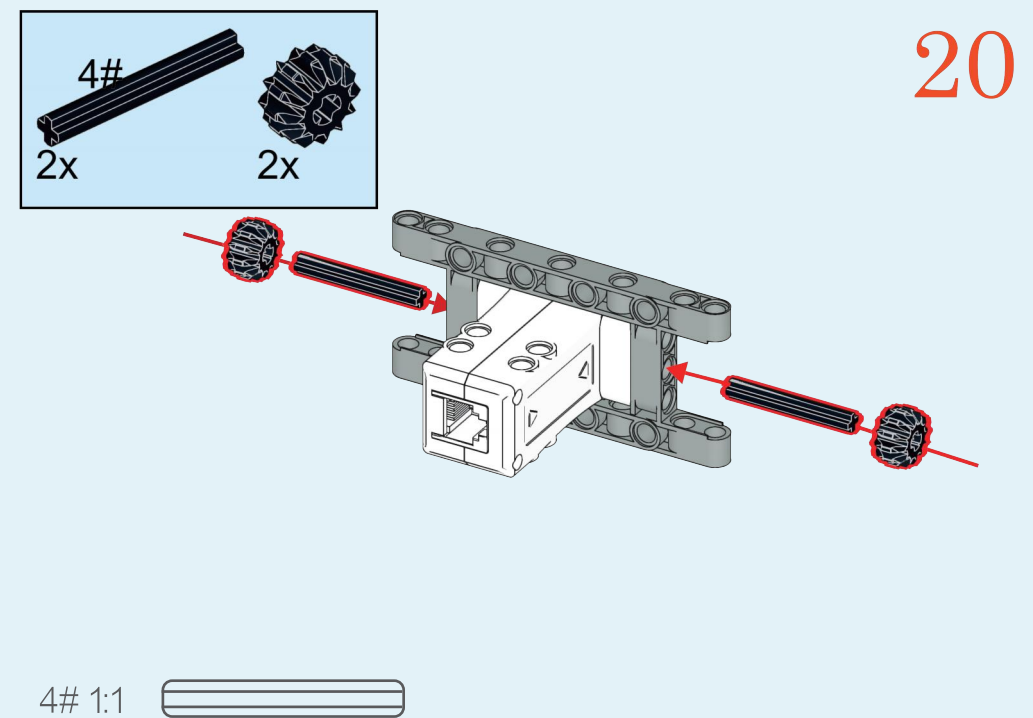
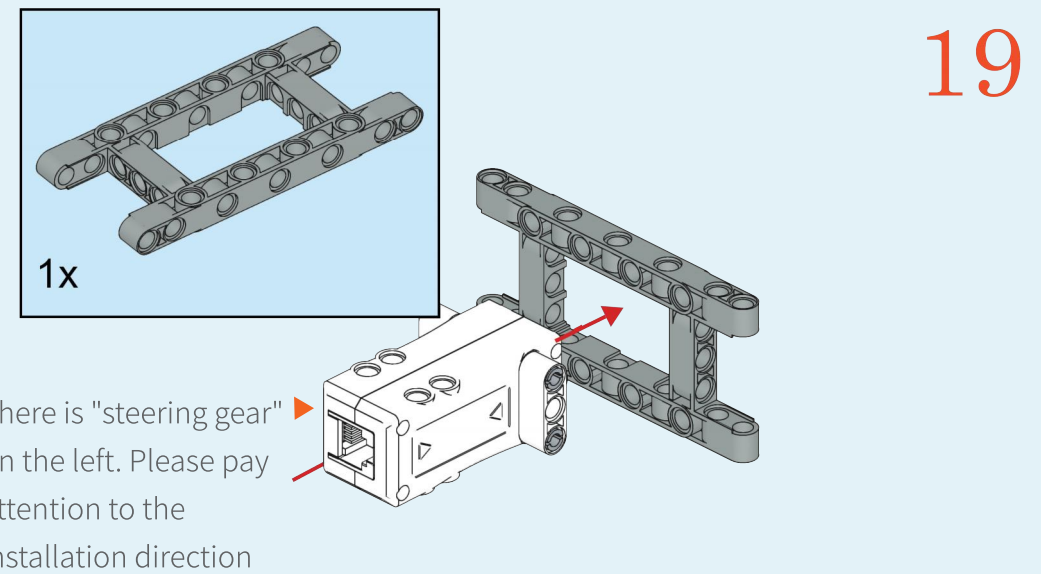
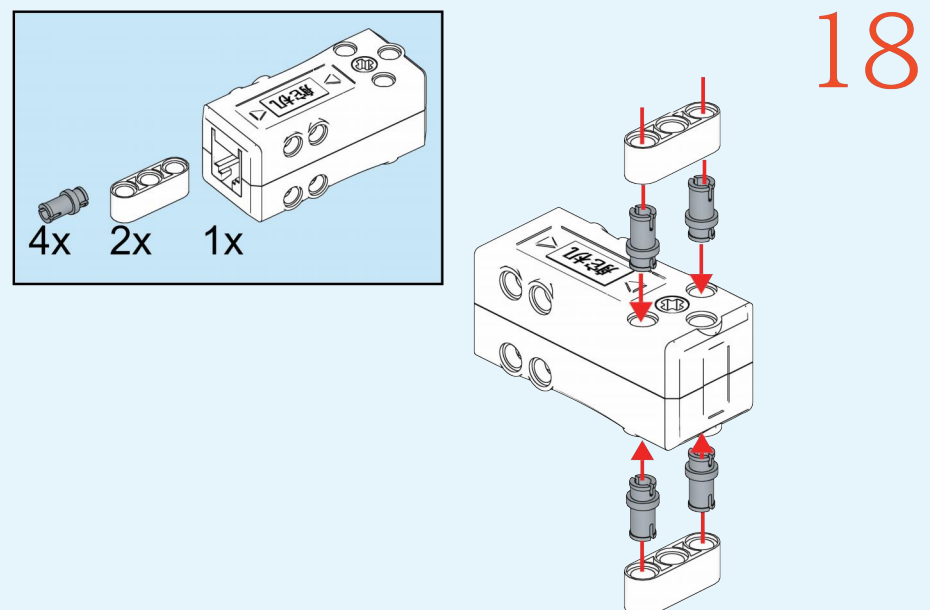
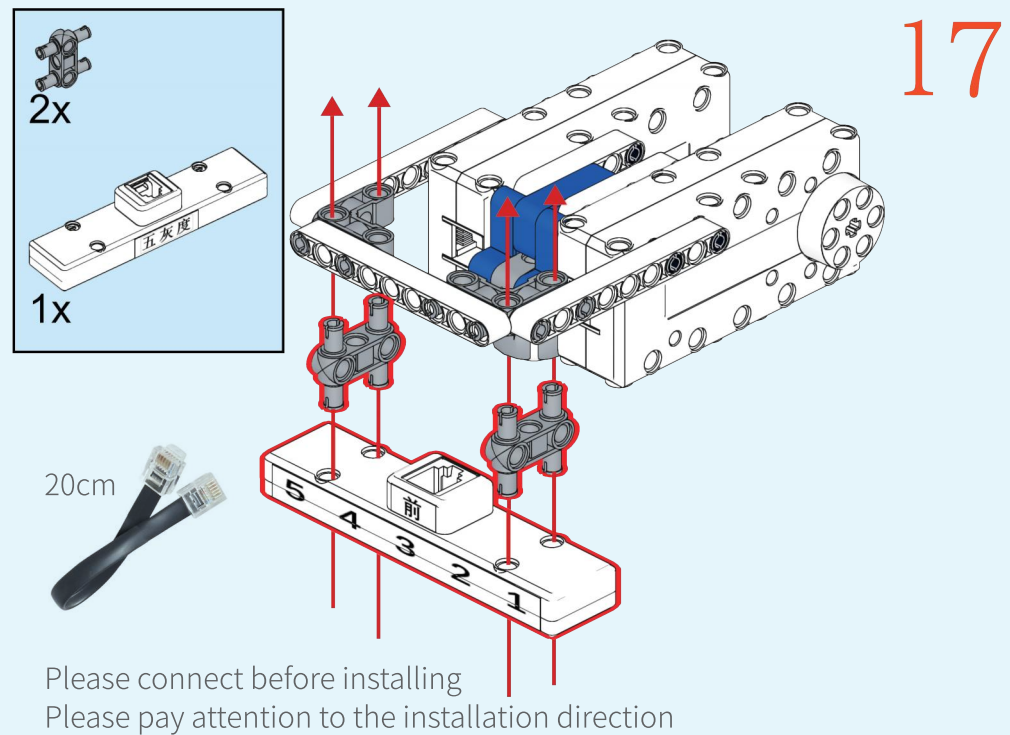


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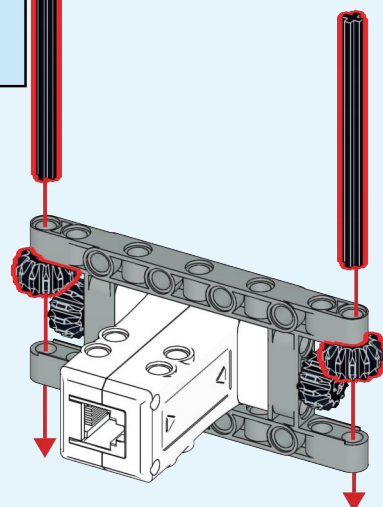
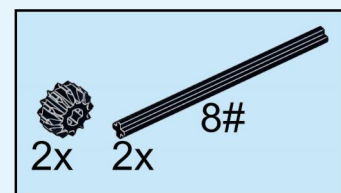


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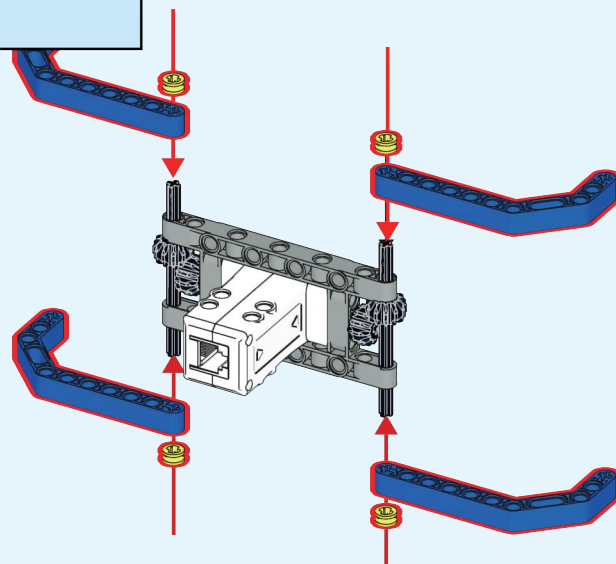
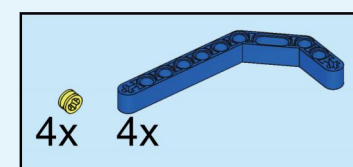
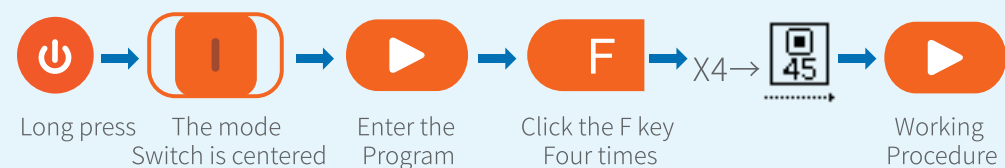
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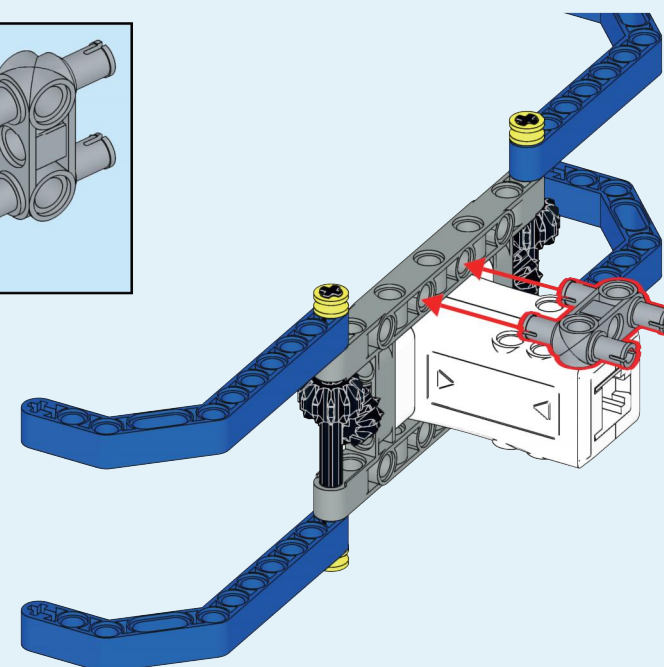
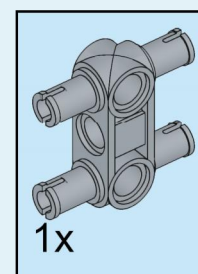
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Attention:

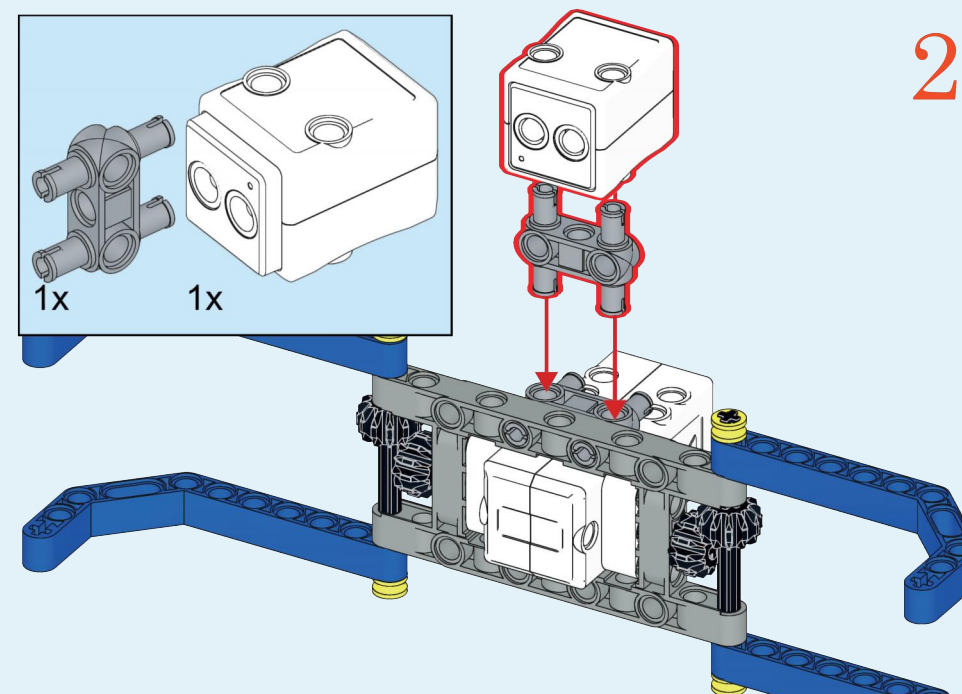
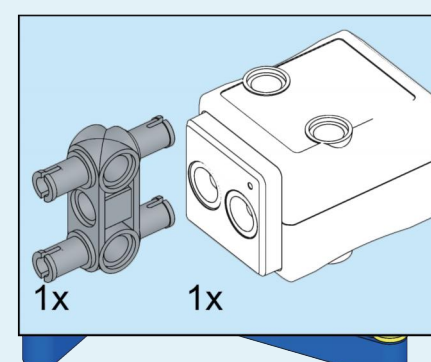
Before installing the steering gear structure, connect the steering gear to port F of the controller, start the machine first, select the middle mode, and set the steering gear angle to 45 °



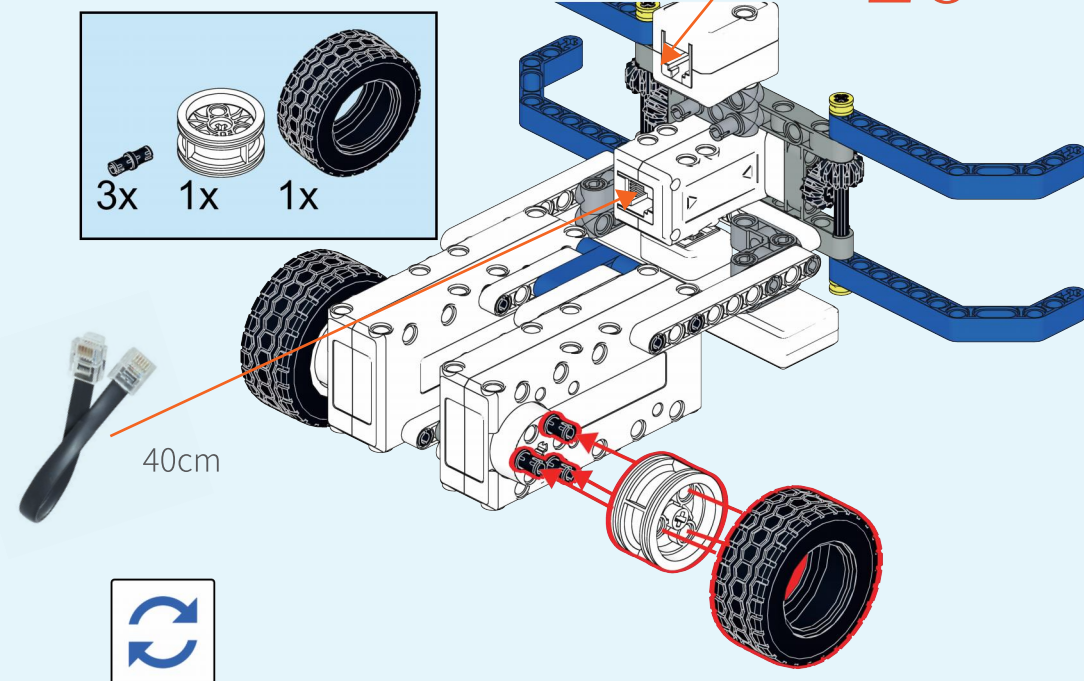
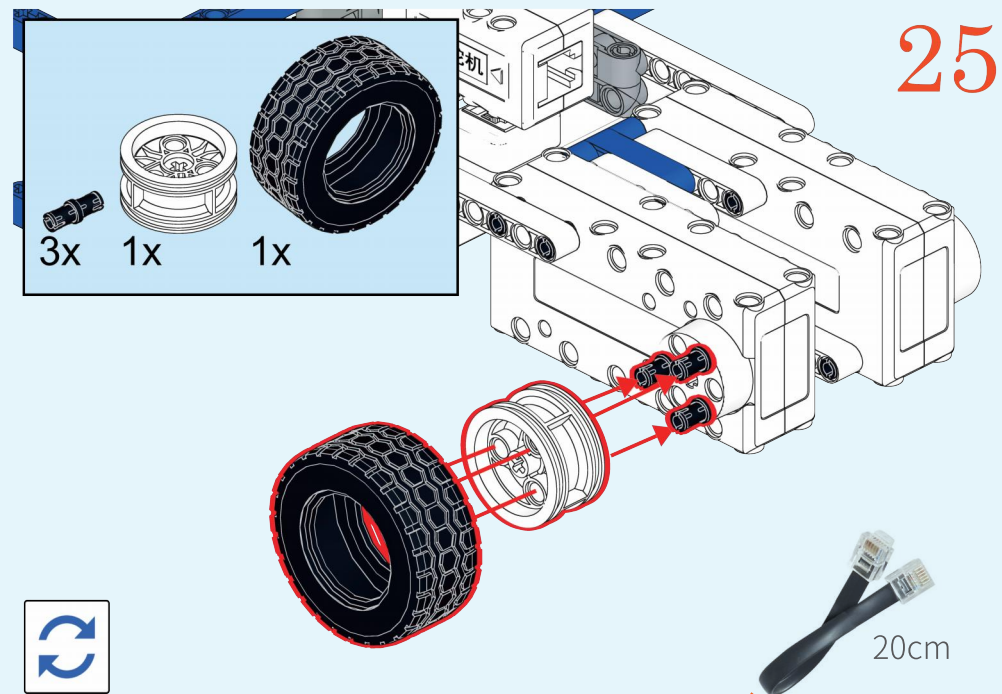
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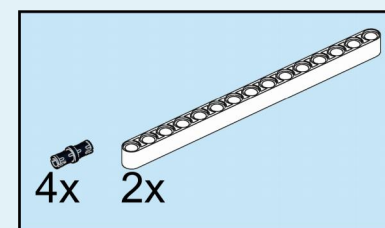
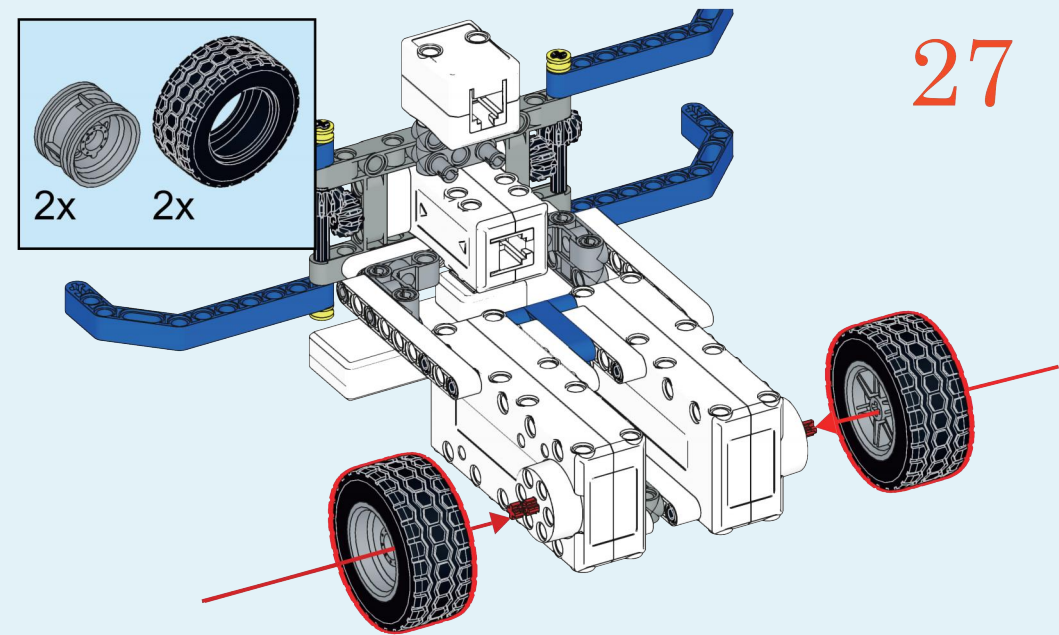
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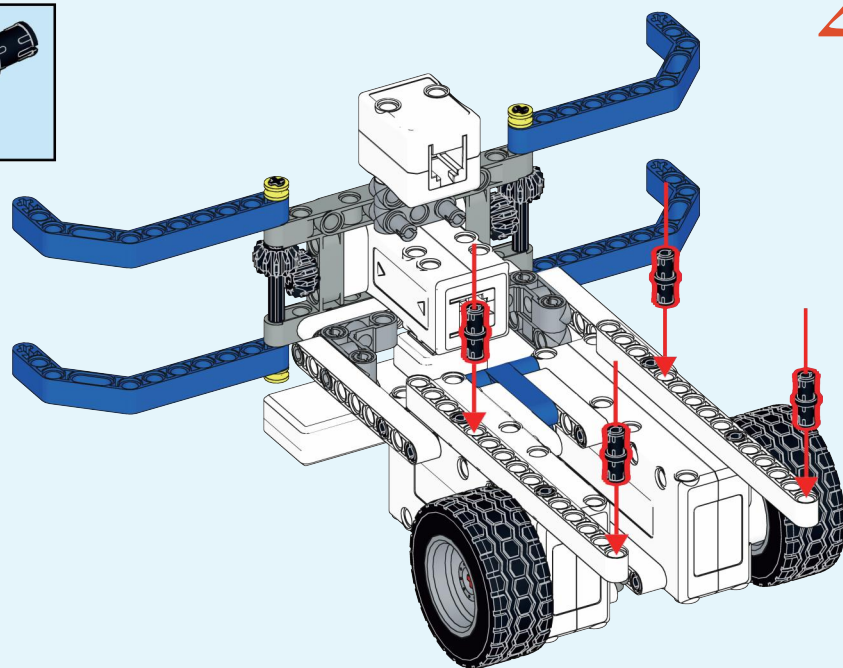


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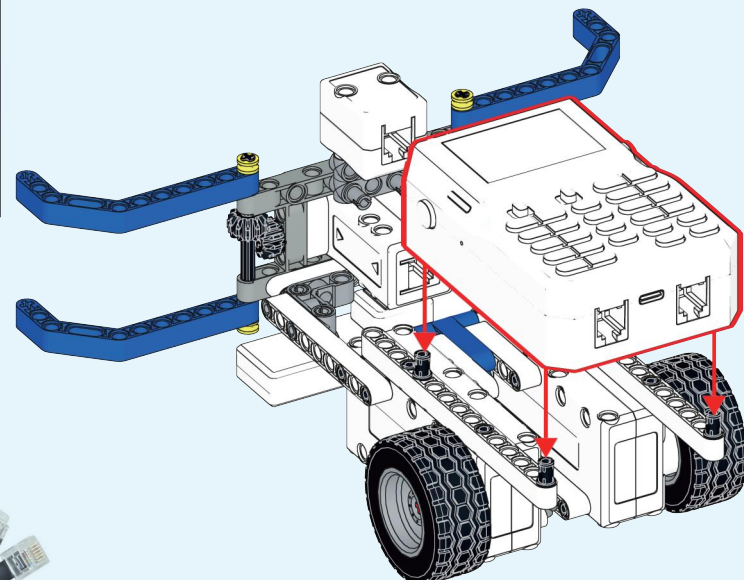
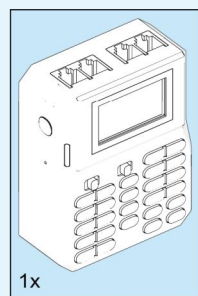


2# 1:1





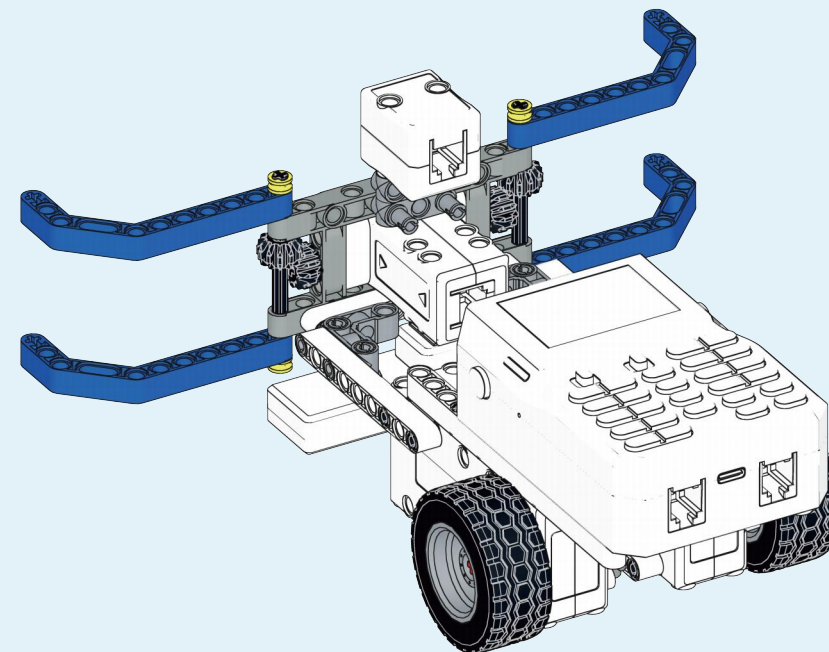
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Please connect before installing the master control



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1 Interface selection:

Note: left motor connection A, right motor connection B, integrated gray connection C, infrared connection D, steering gear connection F

2 Mode selection:



3 Start programming:

The programming of multi-functional robots can be debugged in combination with specific scenarios. The following are several basic actions. You can try to program them separately to get familiar with them