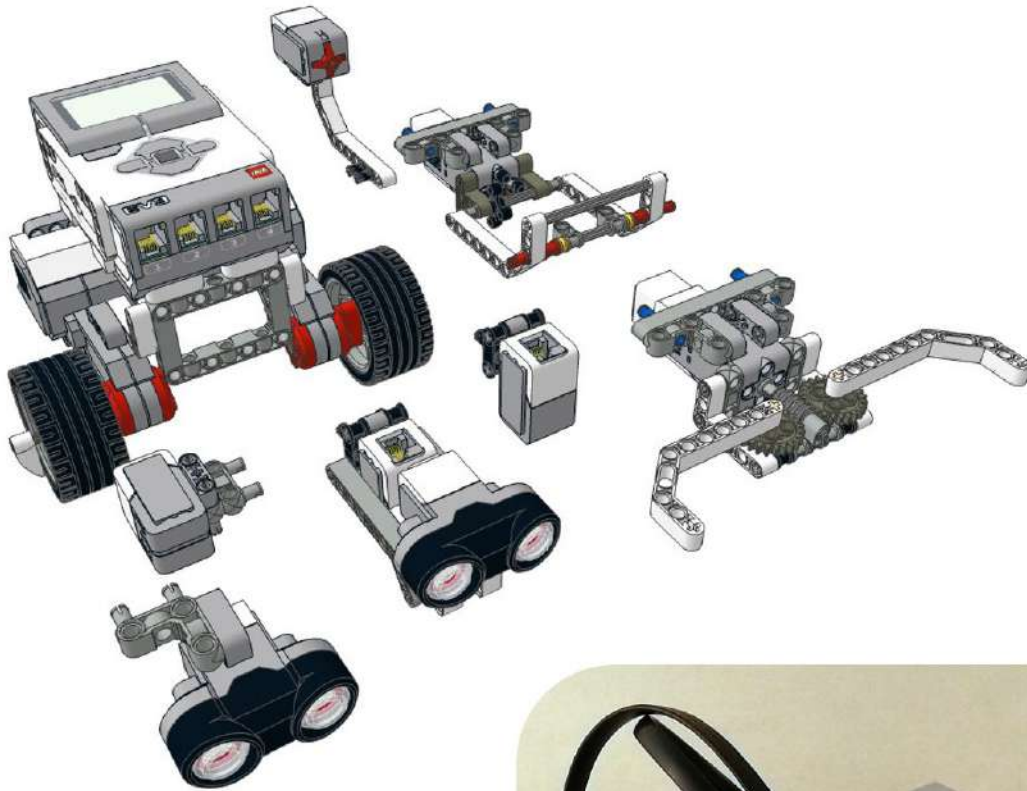


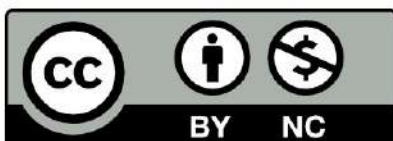
Building Instructions

RileyRover Base Design and Attachments



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Sensor and Motor Attachments for the RileyRover Base design



Ultrasonic Sensor



Colour Sensor



Gyro Sensor



Gripper



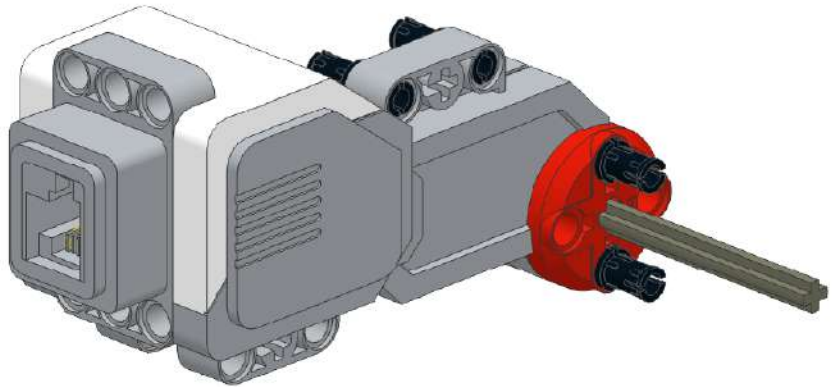
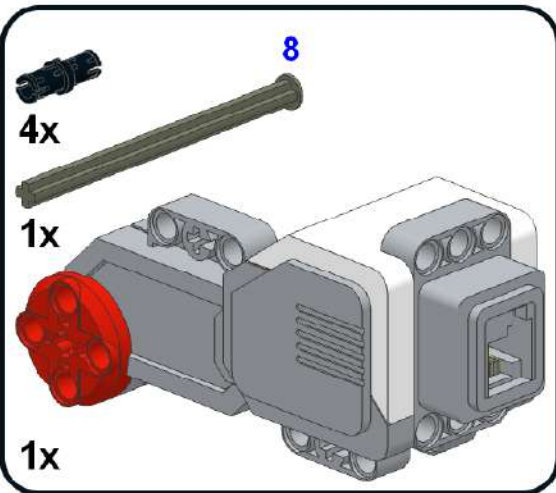
**Colour / Ultrasonic
combination**



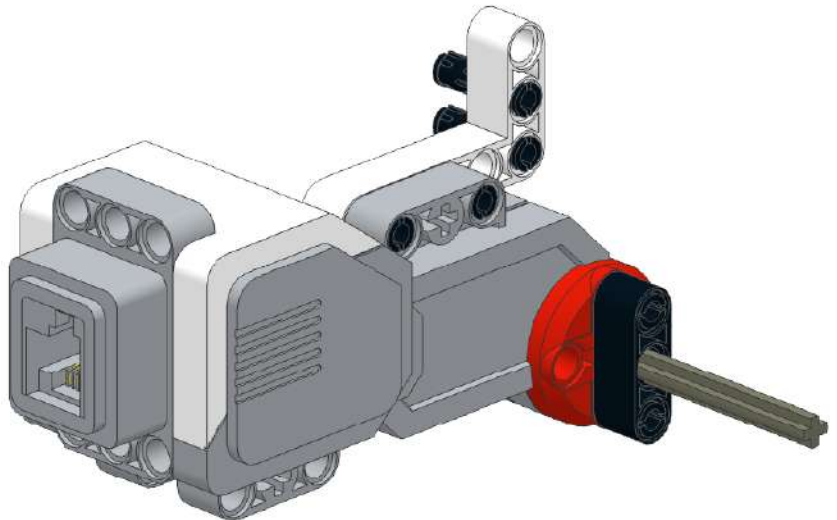
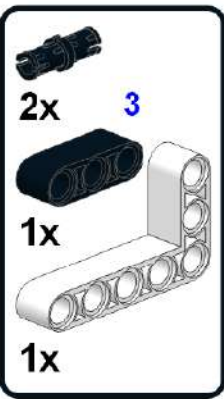
Cargo Delivery

Right Motor Assembly

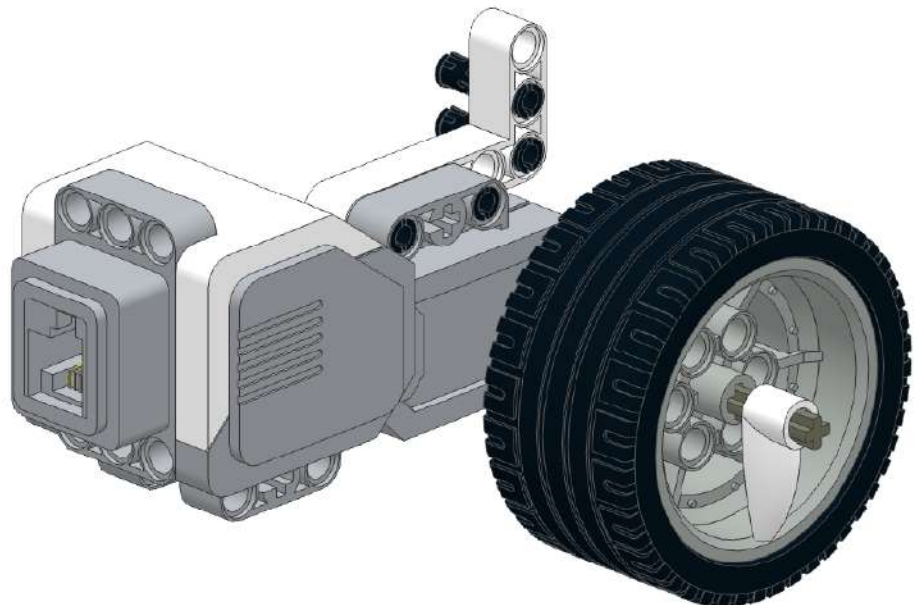
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2

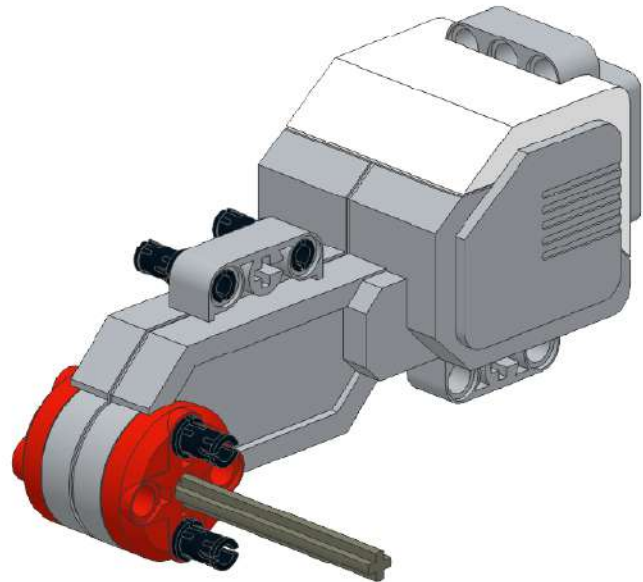
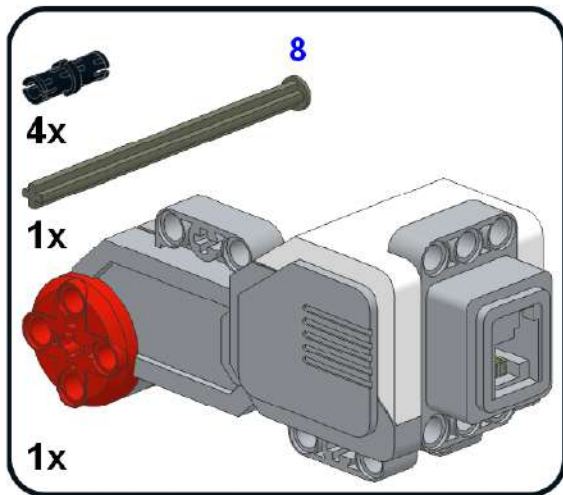


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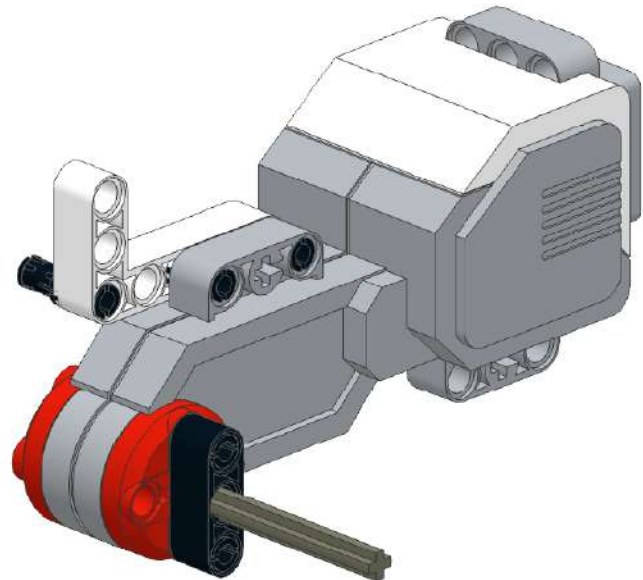
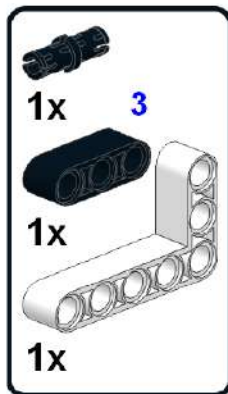


Left Motor Assembly

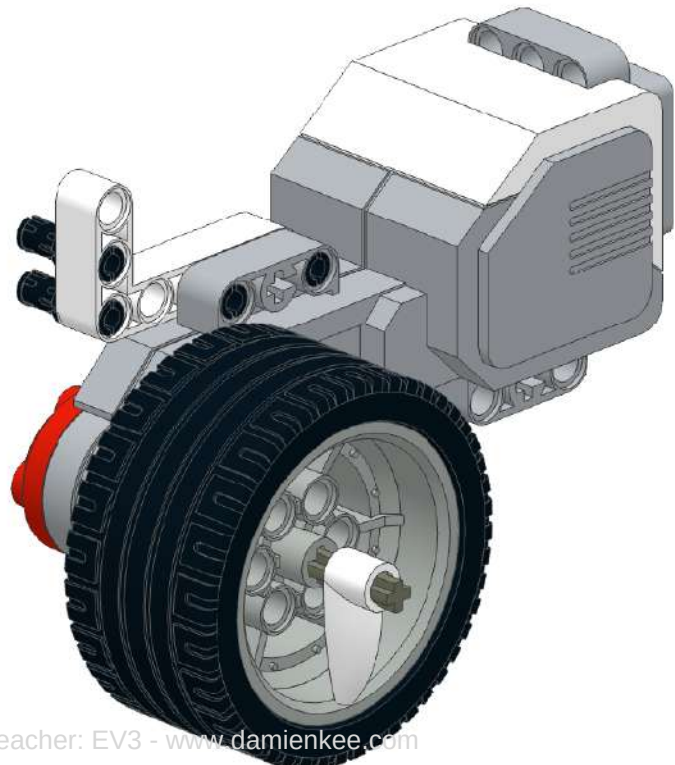
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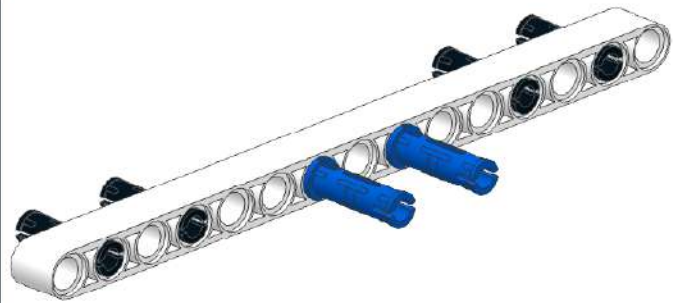
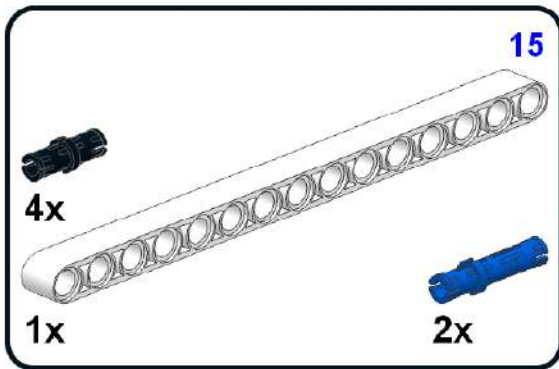


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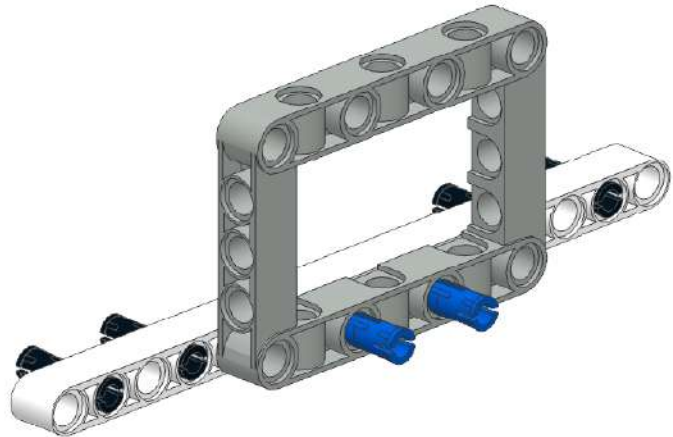
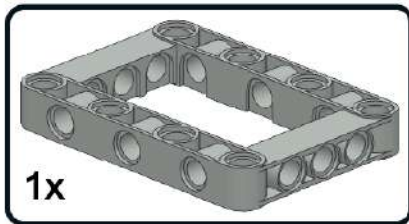


Back Castor Assembly

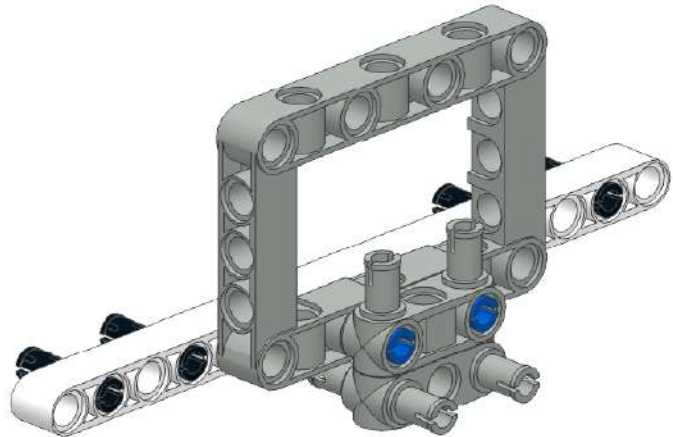
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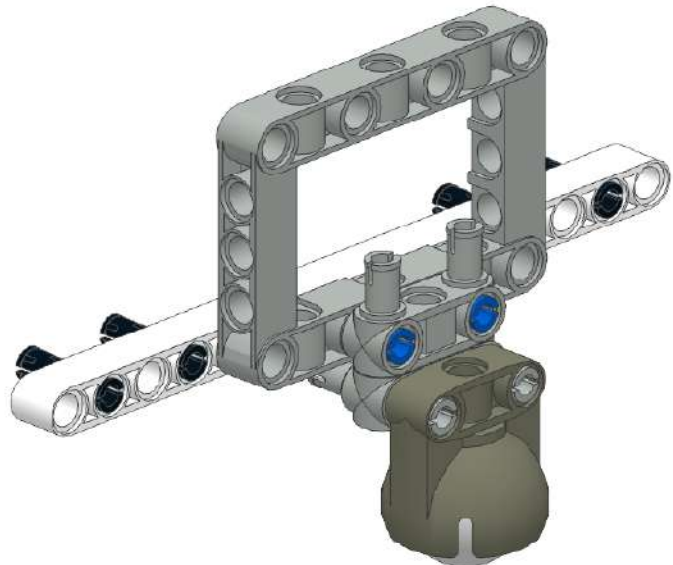
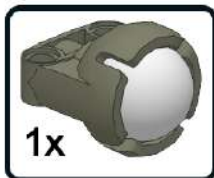
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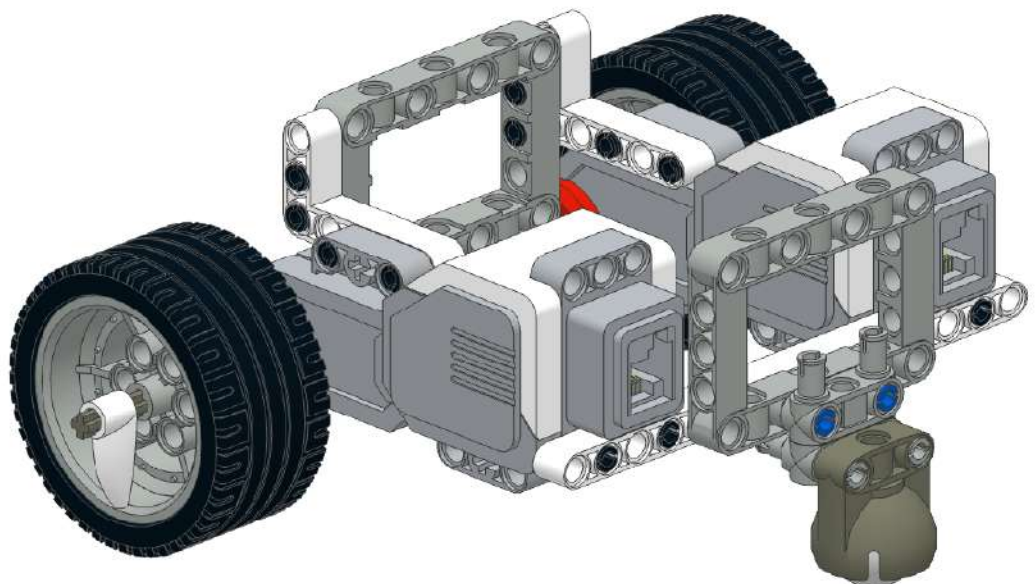
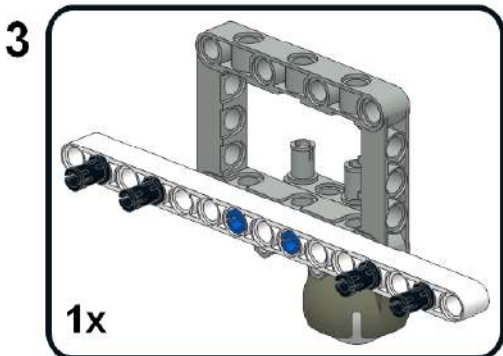
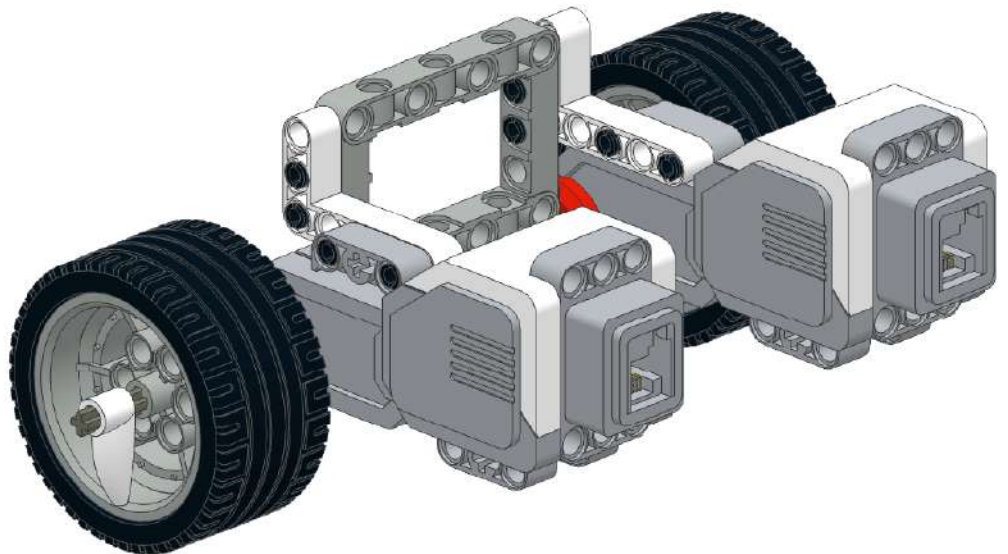
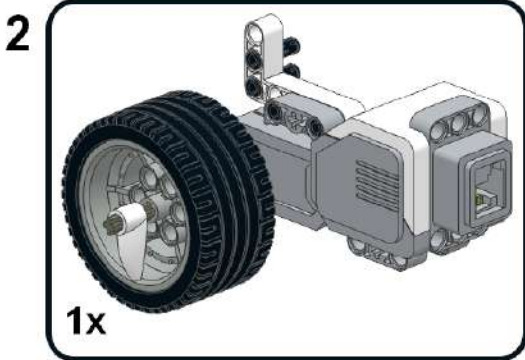
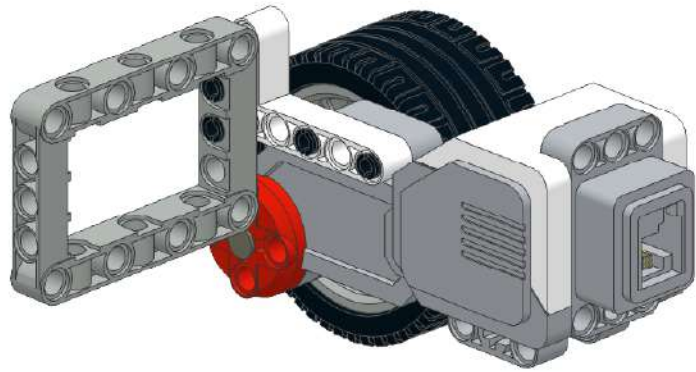
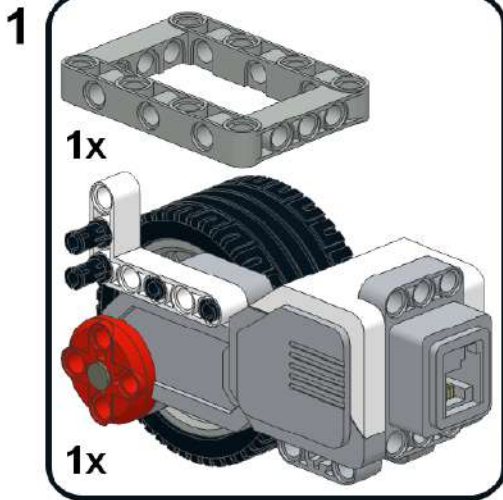
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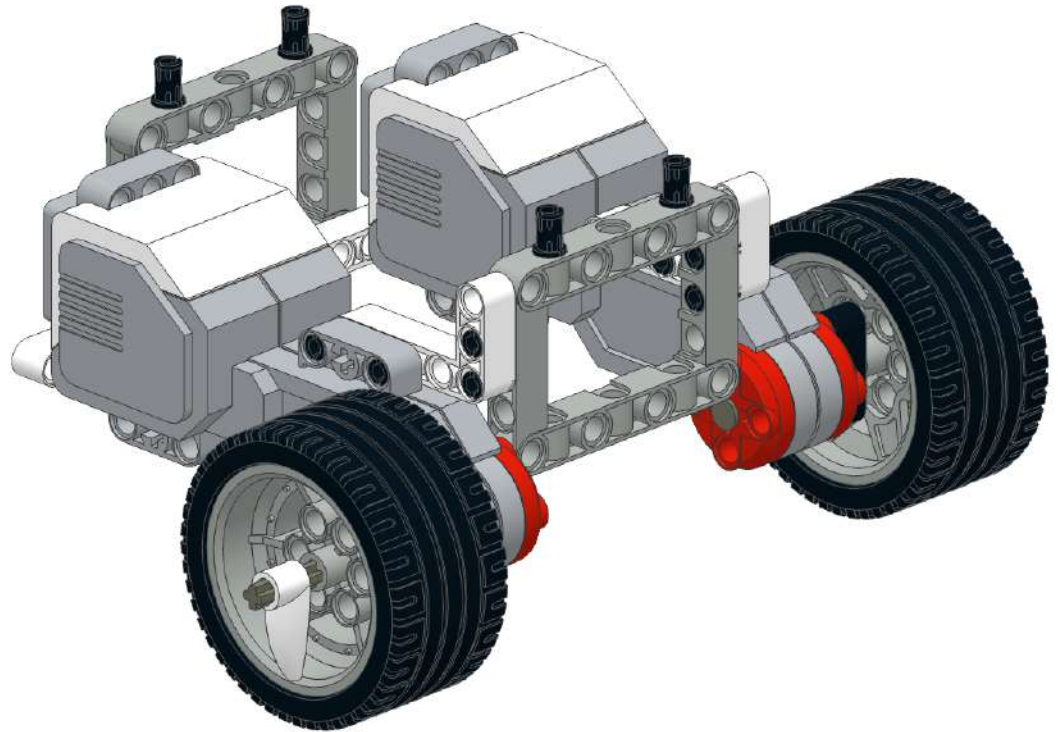


Assemble Right Motor, Left Motor and Back Castor

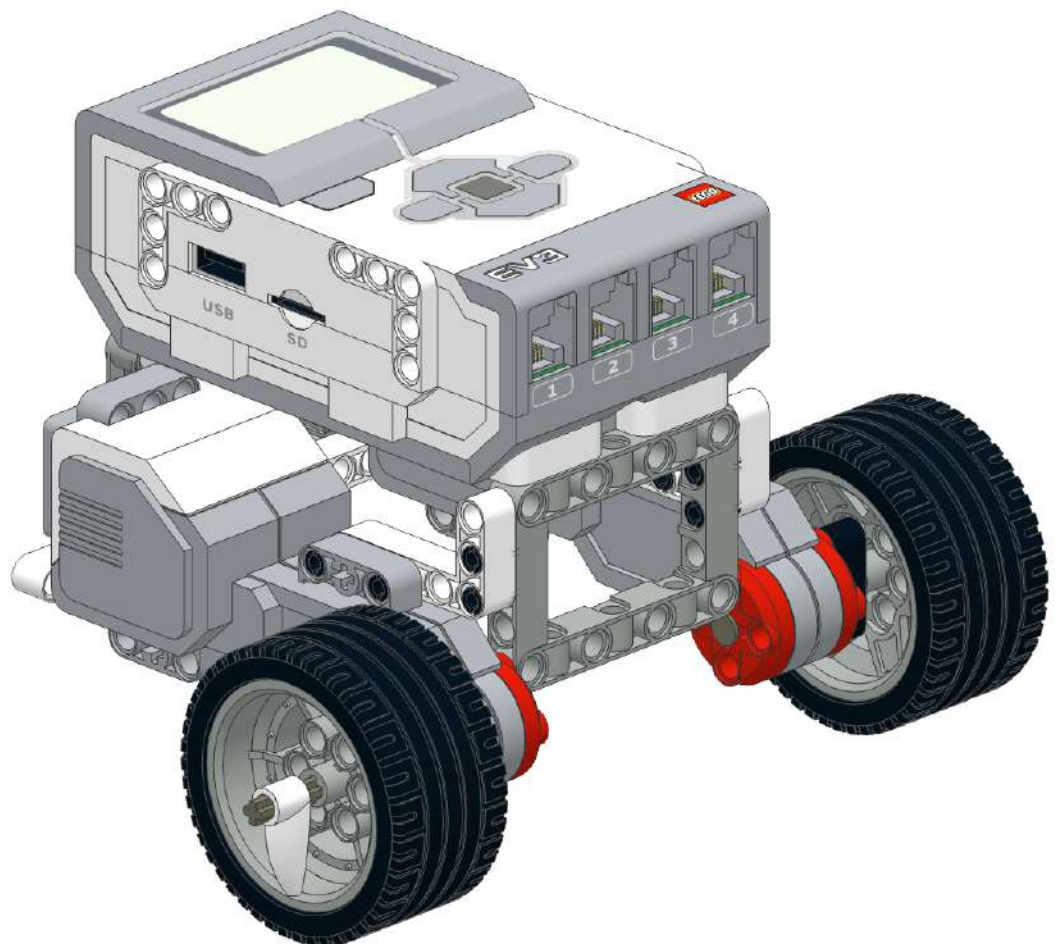
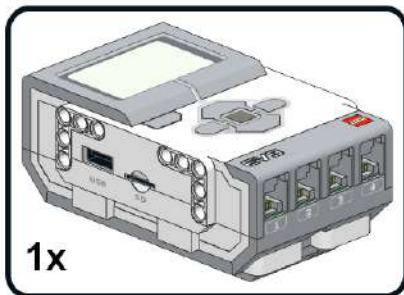


Turn Base around

4

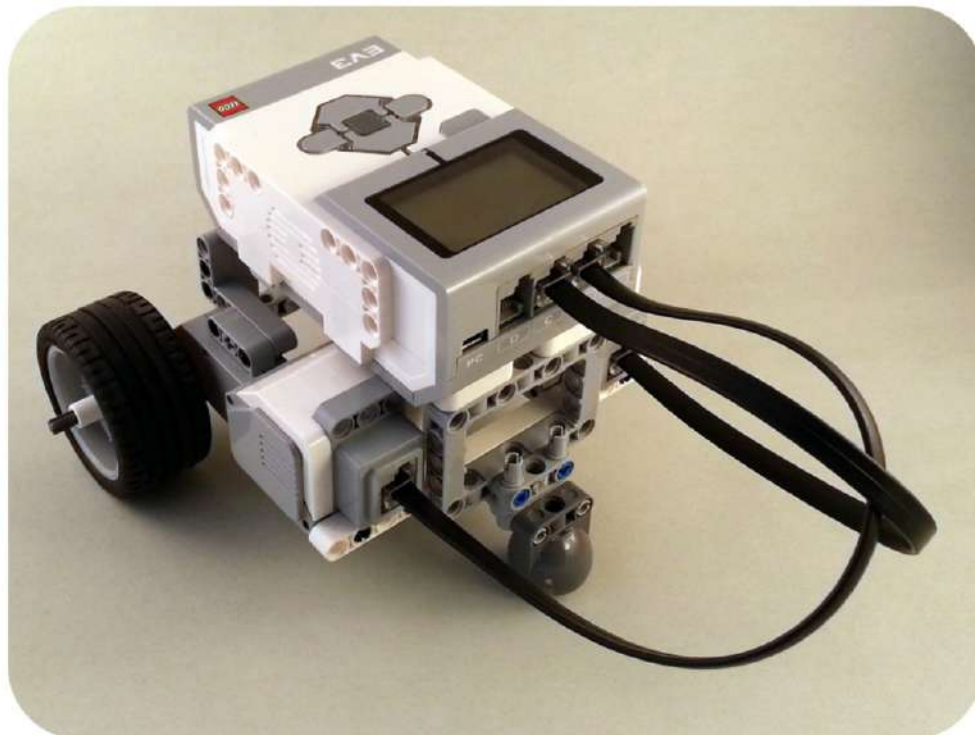


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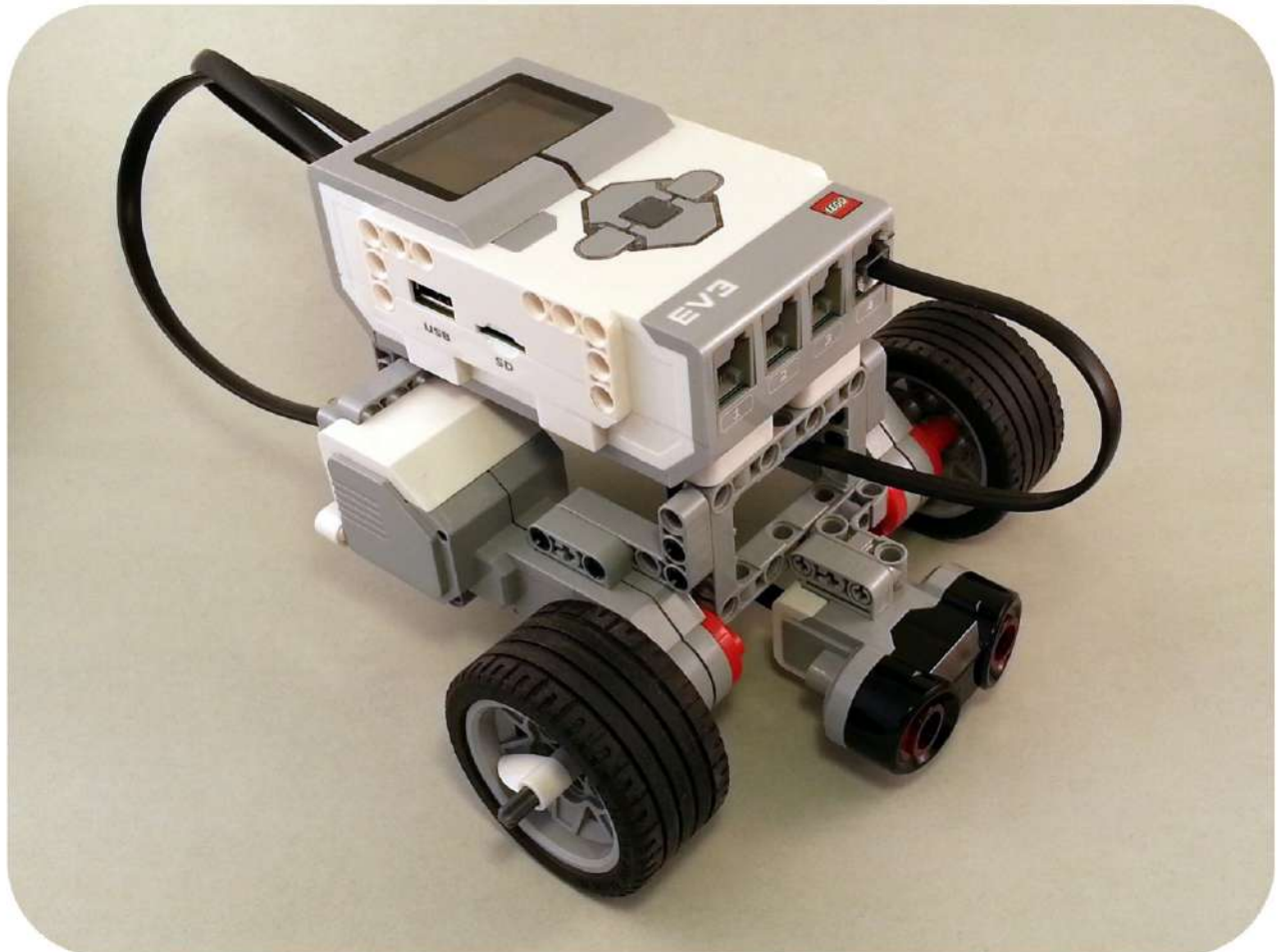
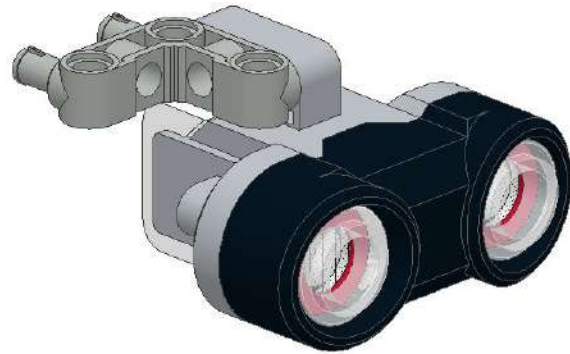
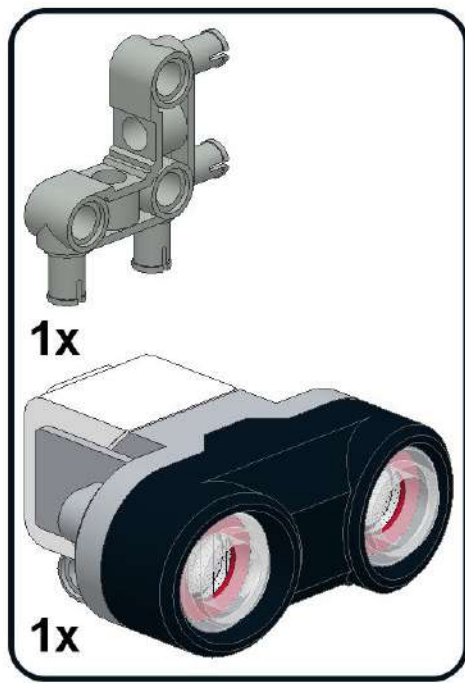


Connect the Cables

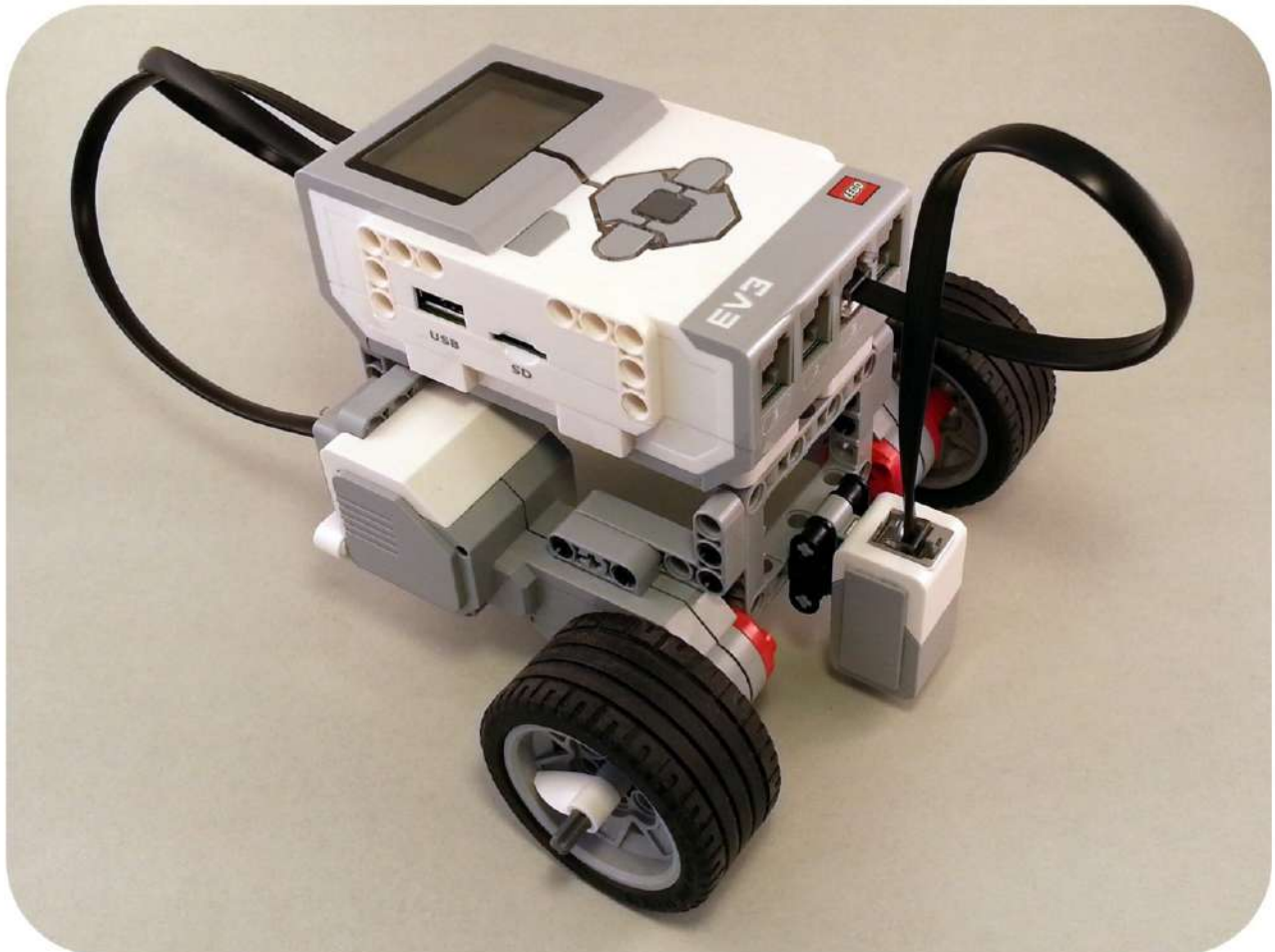
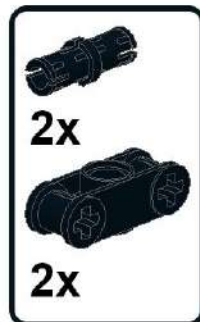
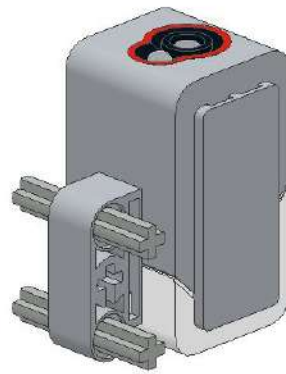
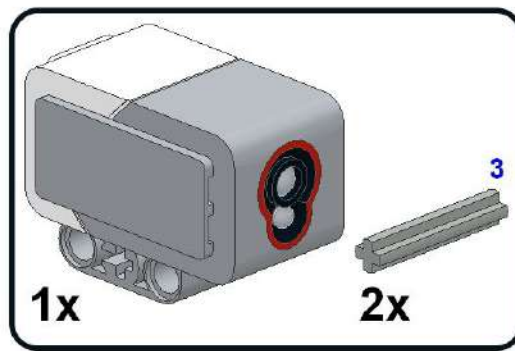
Left Motor : B - Right Motor : C
(for this design, the cables will cross over)



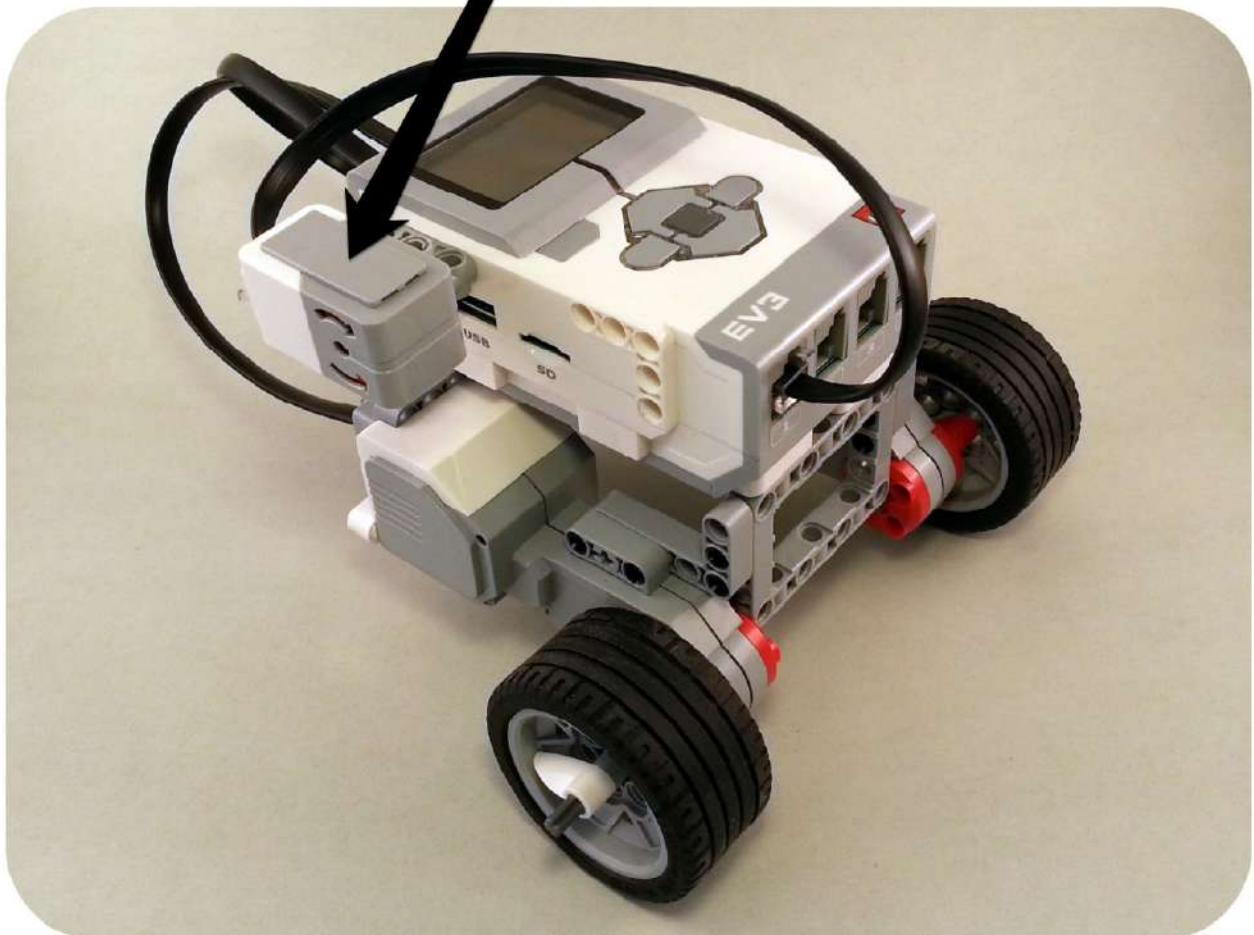
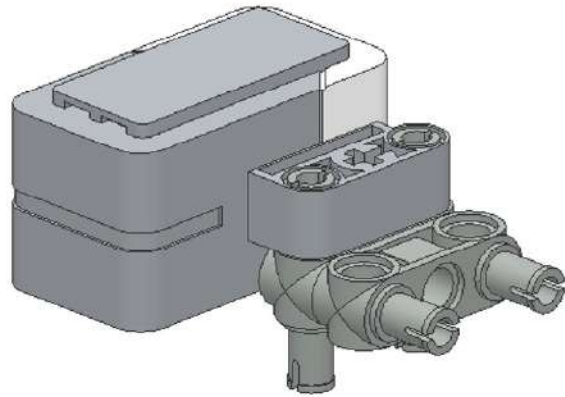
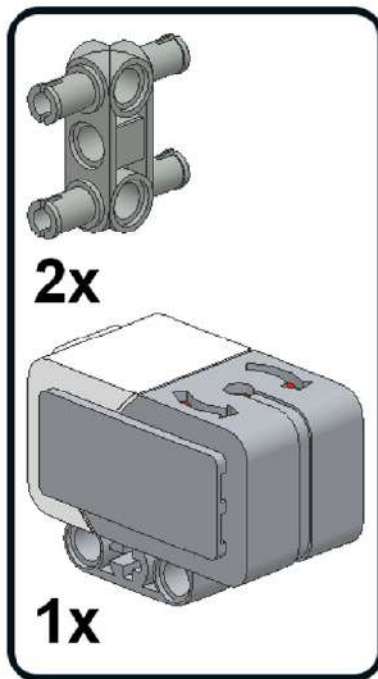
Ultrasonic Sensor Attachment



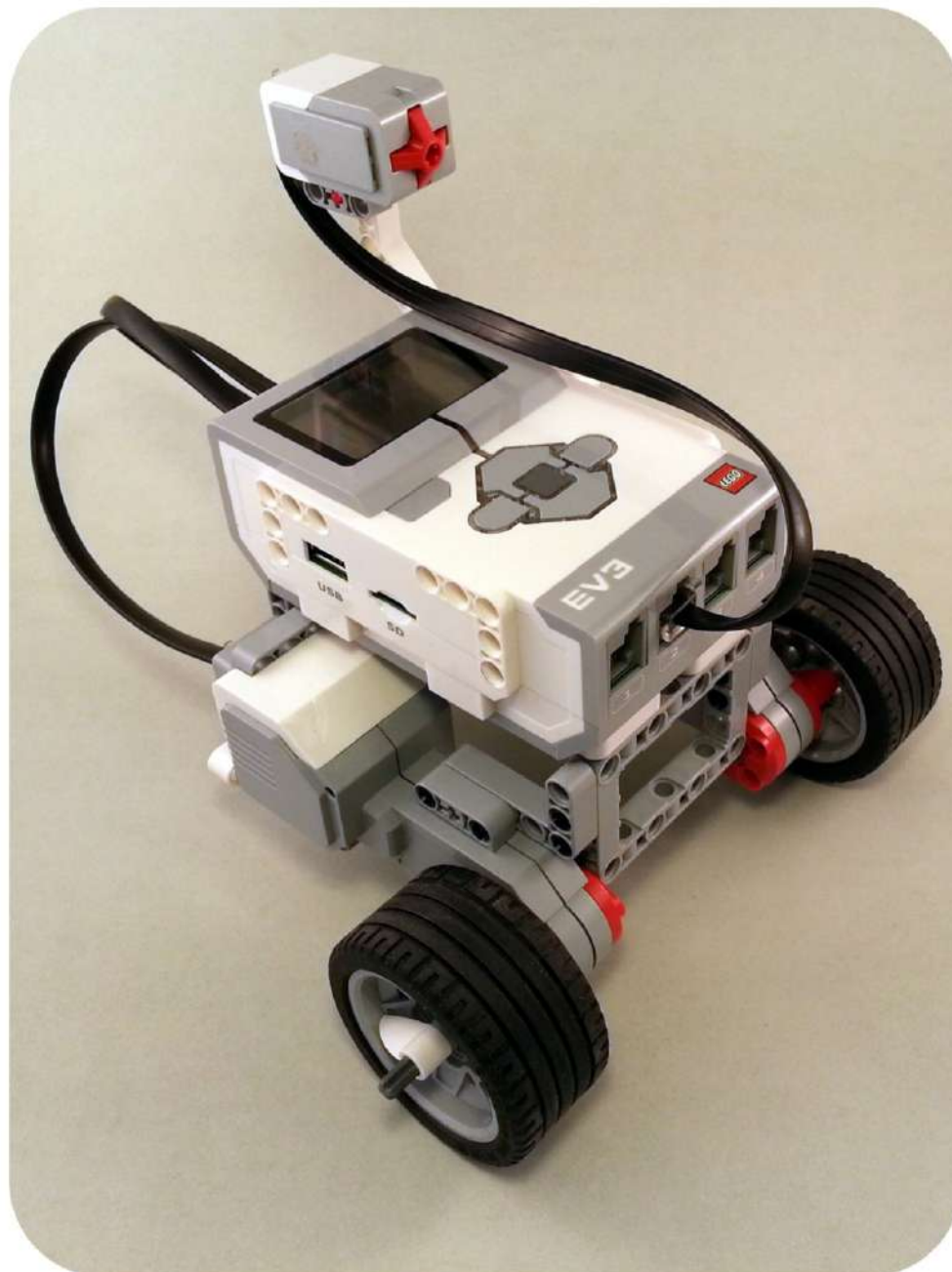
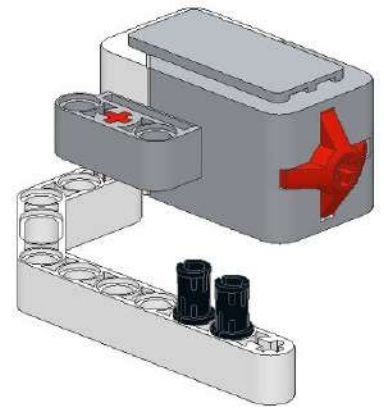
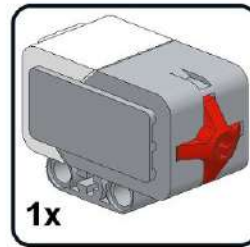
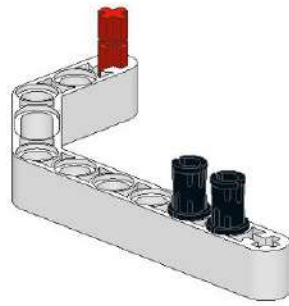
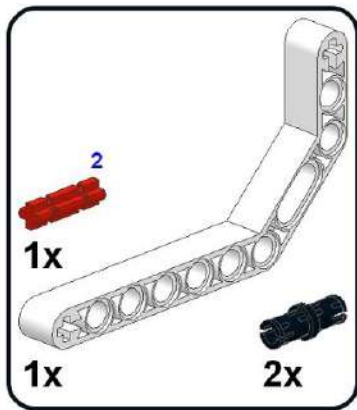
Colour Sensor Attachment



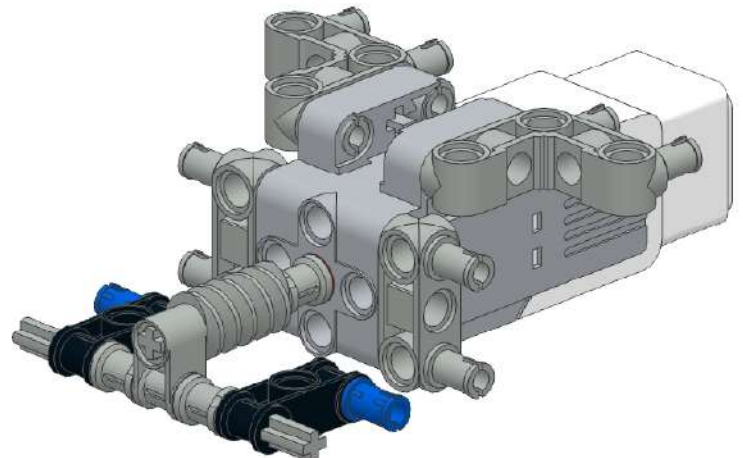
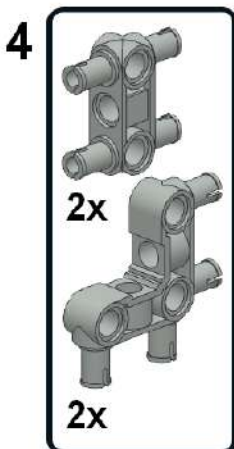
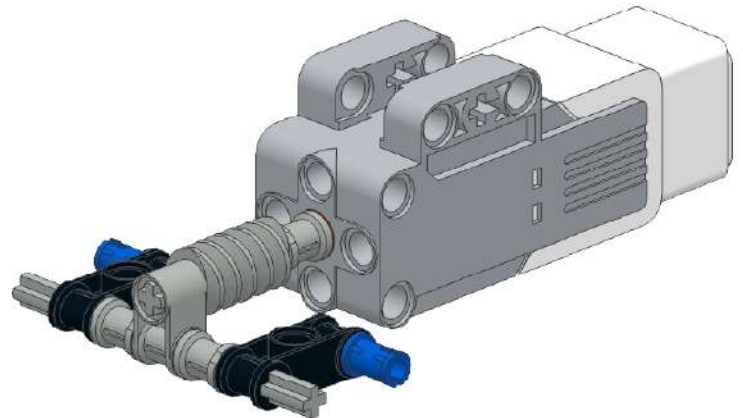
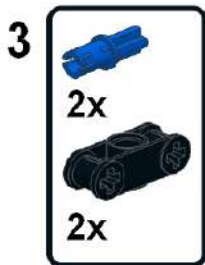
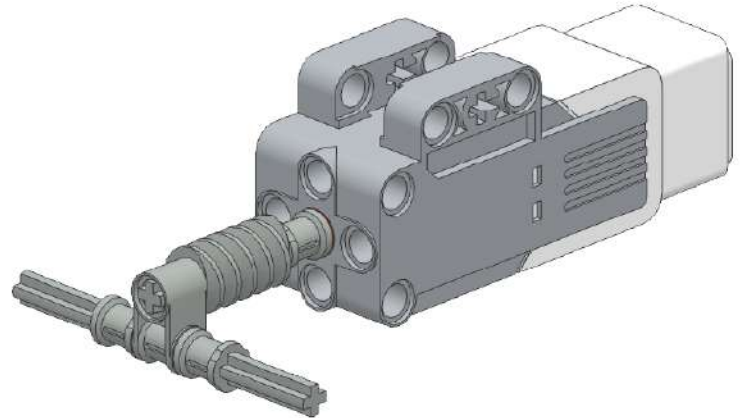
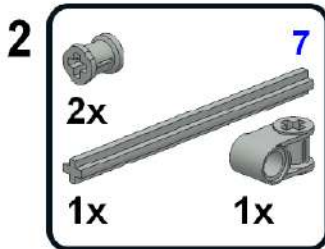
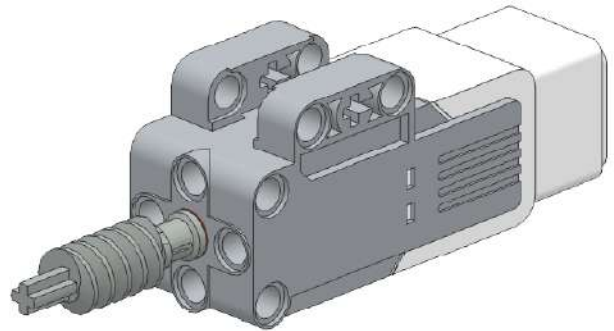
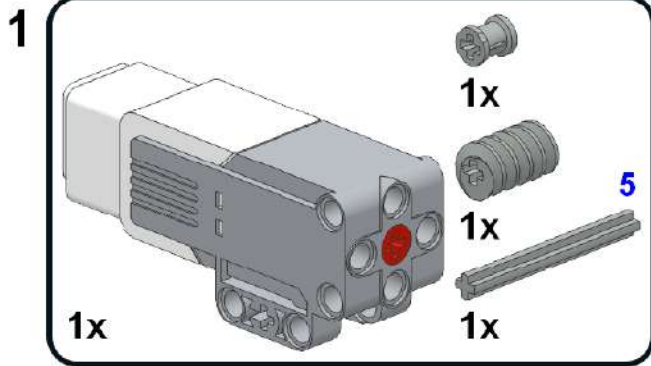
Gyro Sensor Attachment



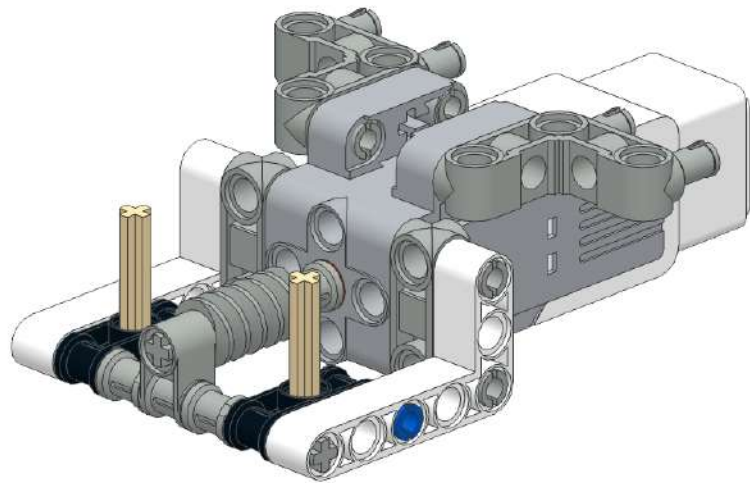
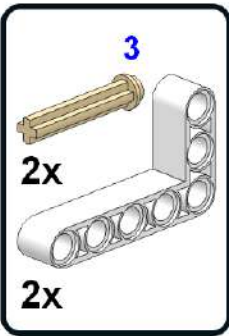
Touch Sensor Attachment



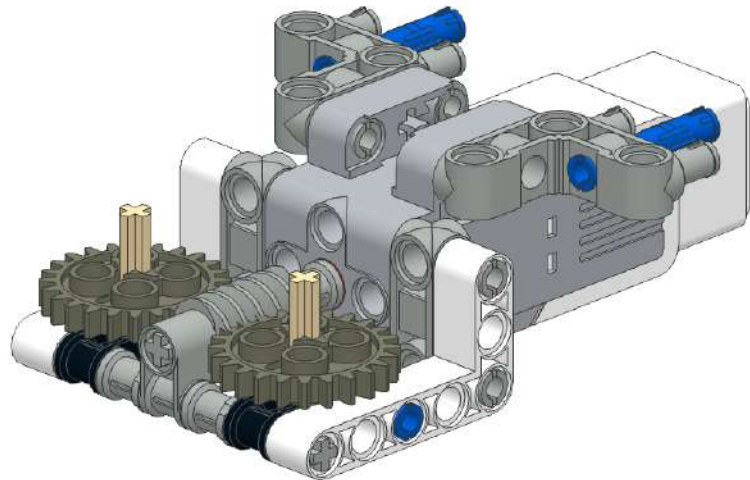
Gripper Attachment



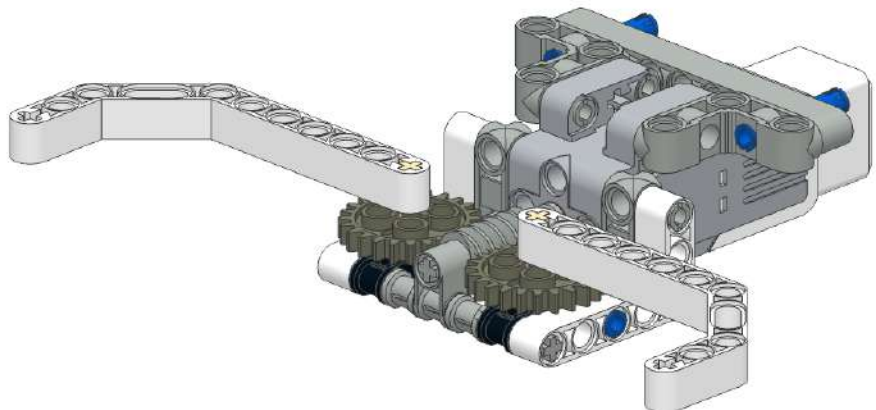
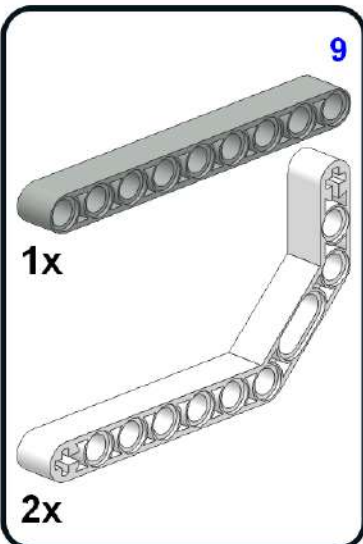
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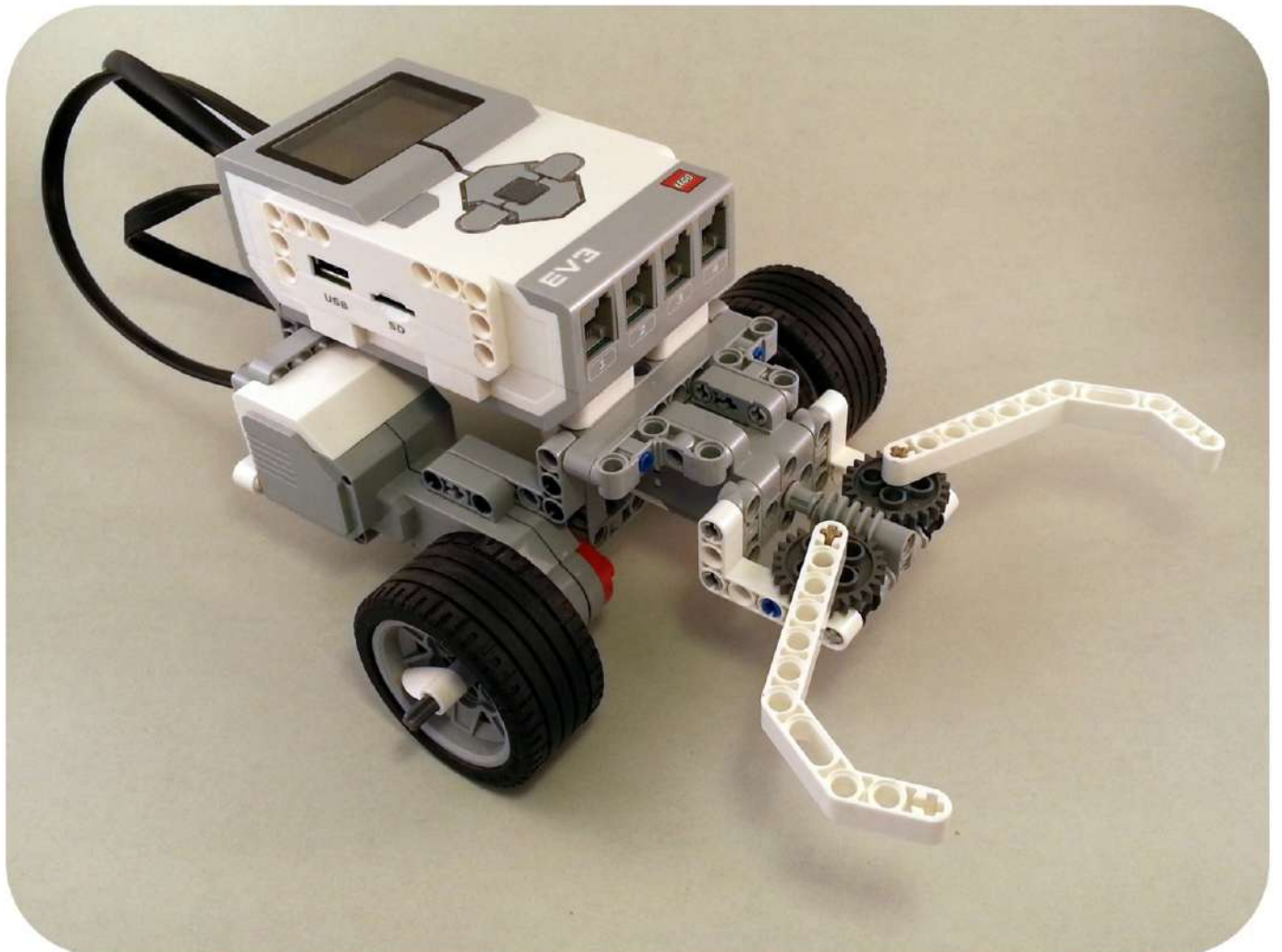
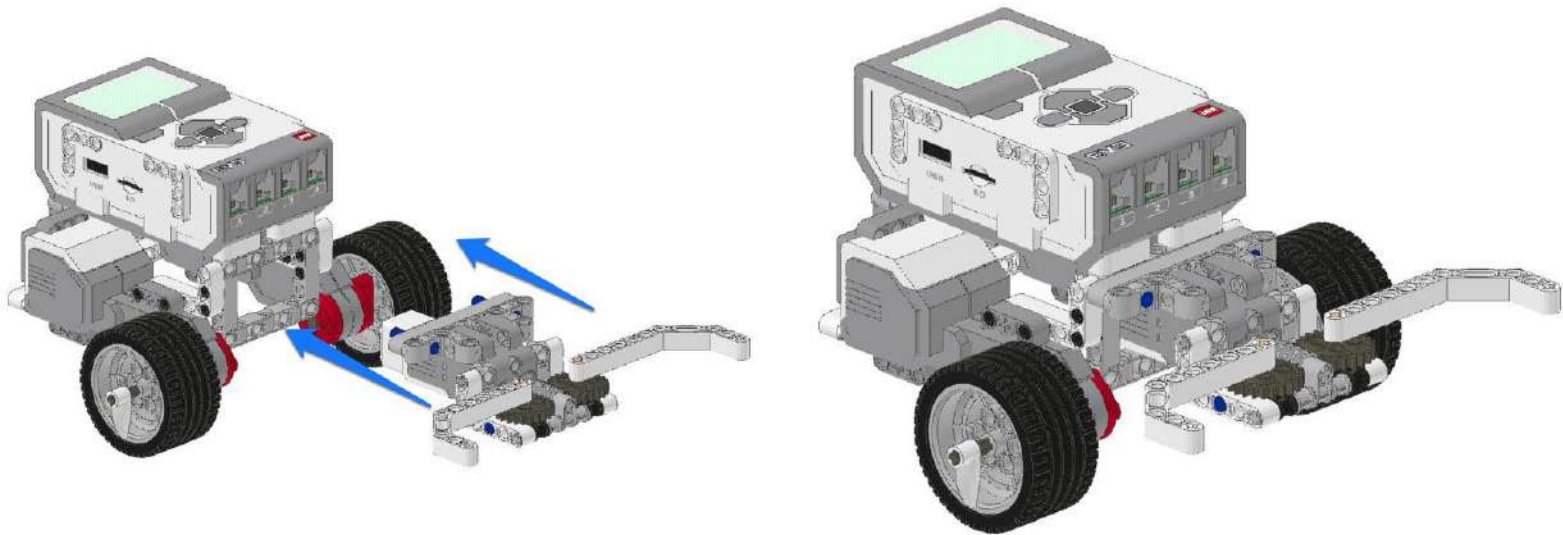
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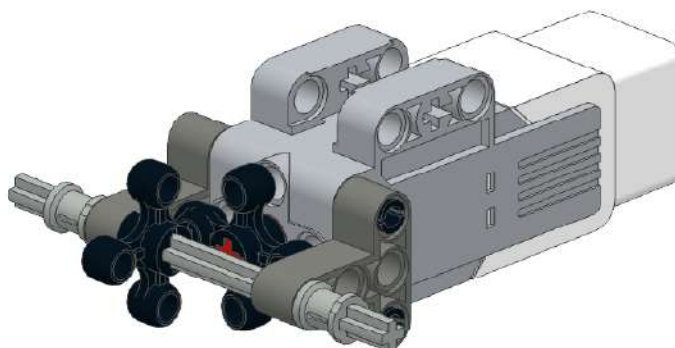
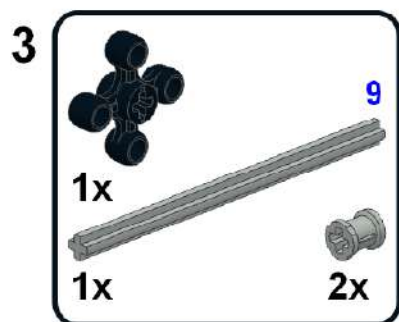
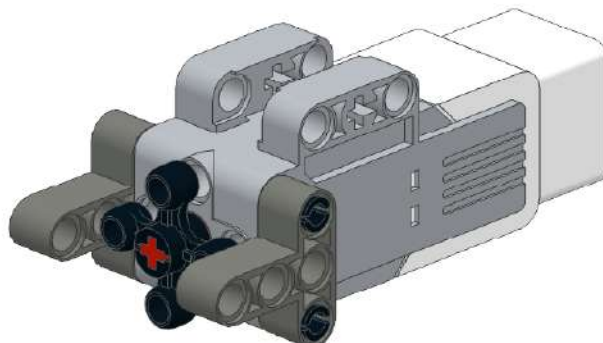
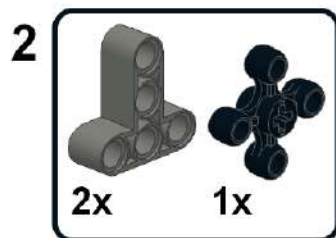
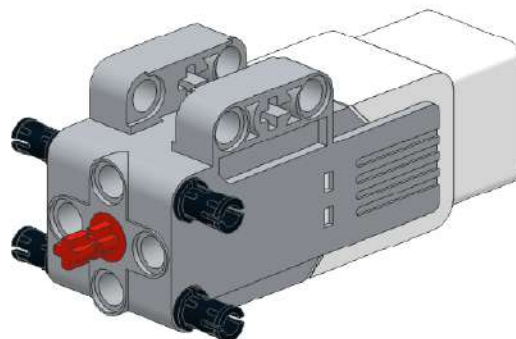
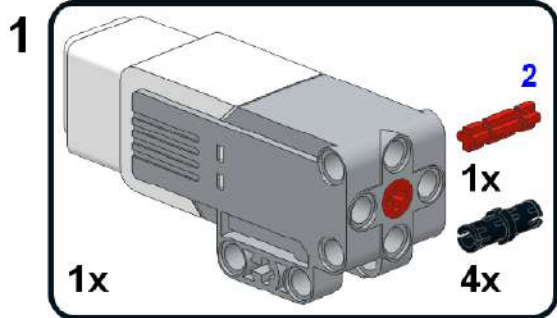
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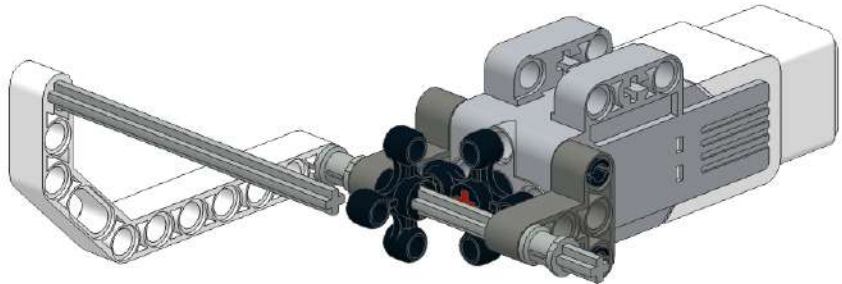
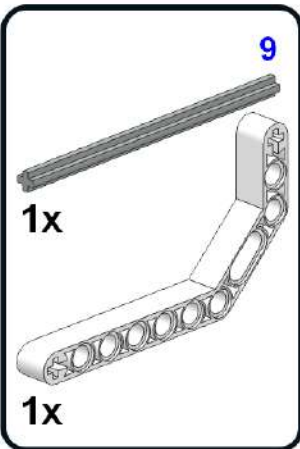
Attach the Gripper to the front of the Robot



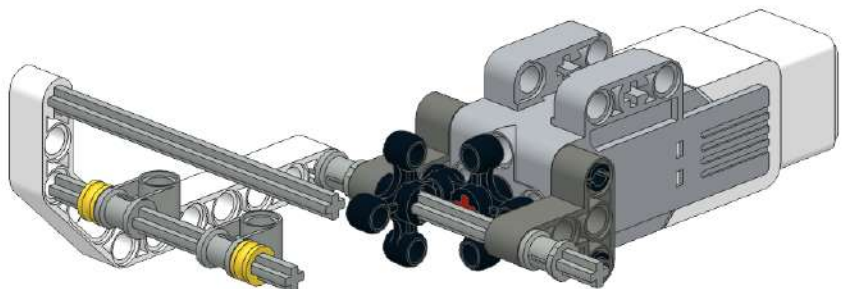
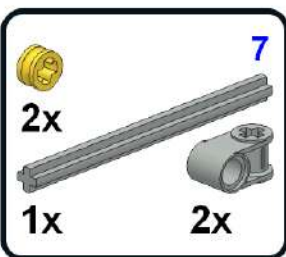
Cargo Delivery Attachment



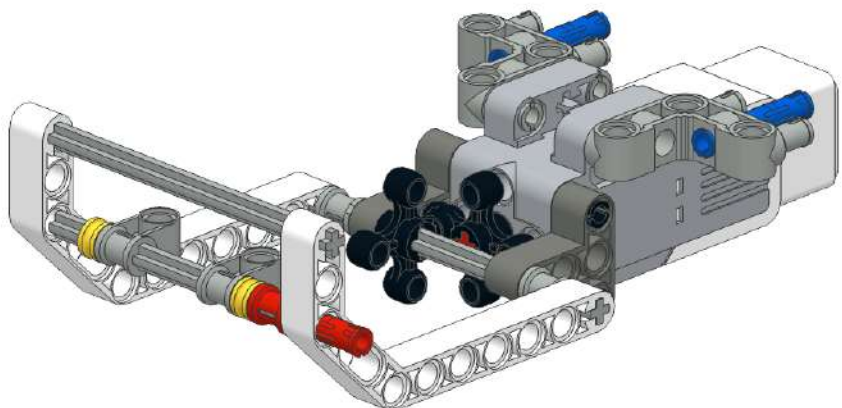
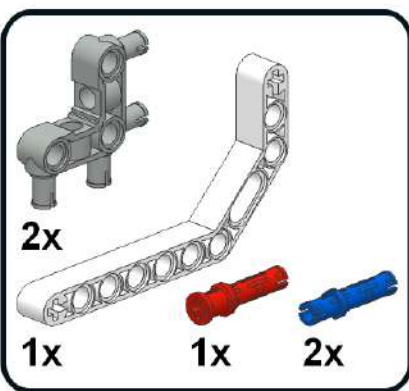
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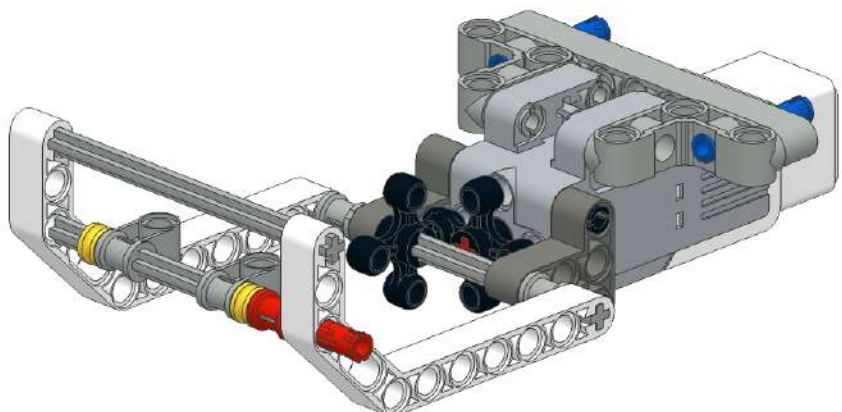
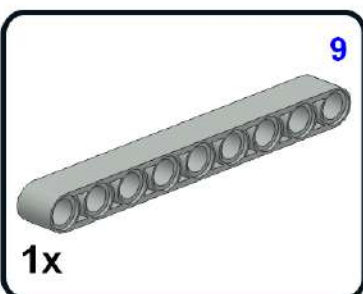
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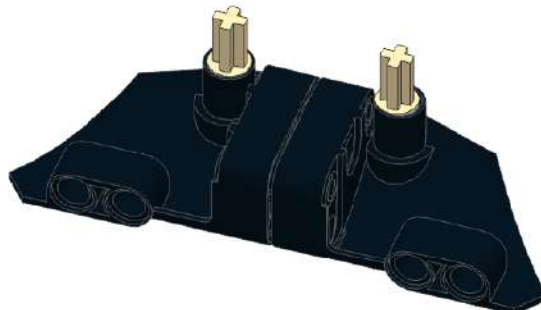
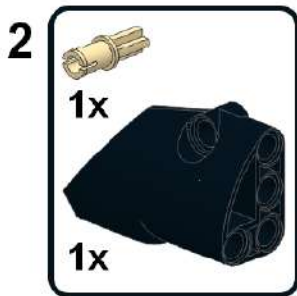
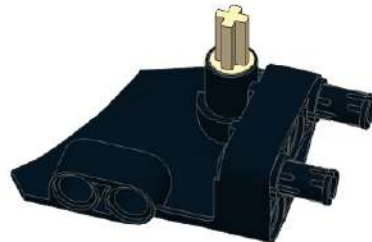
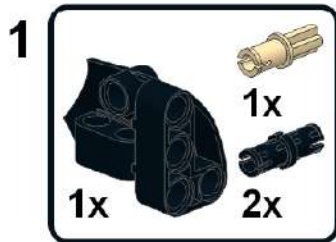


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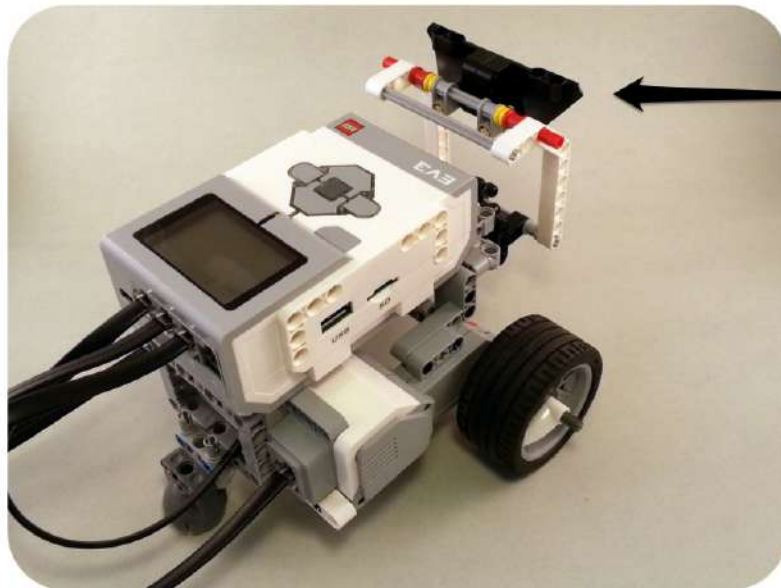
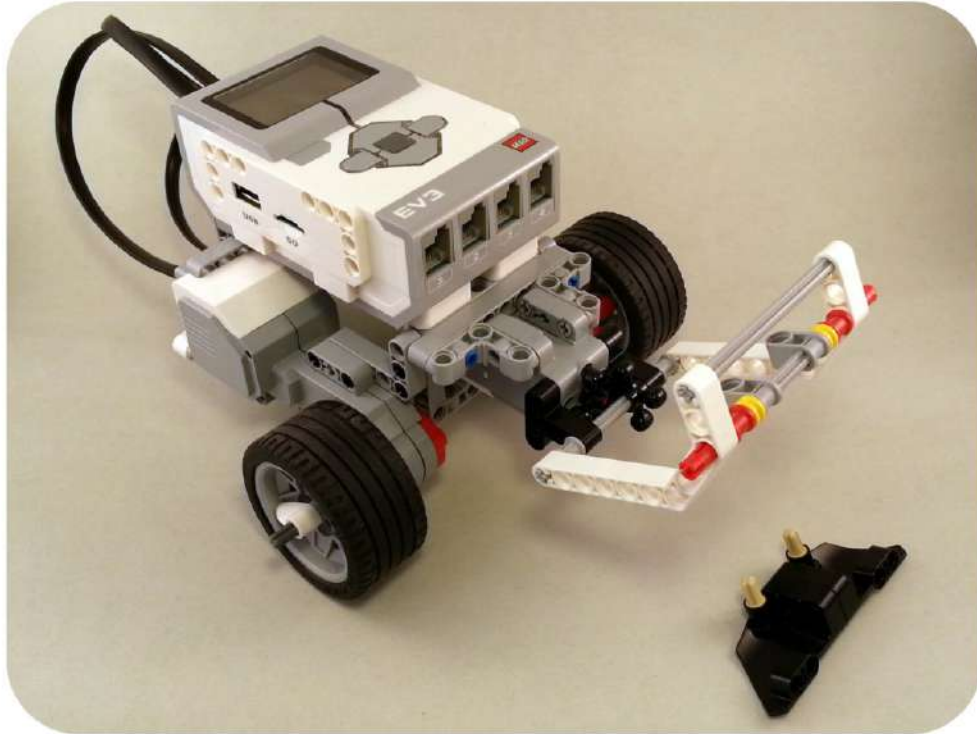


Signal Repeater

To be used with the Cargo Delivery Attachment



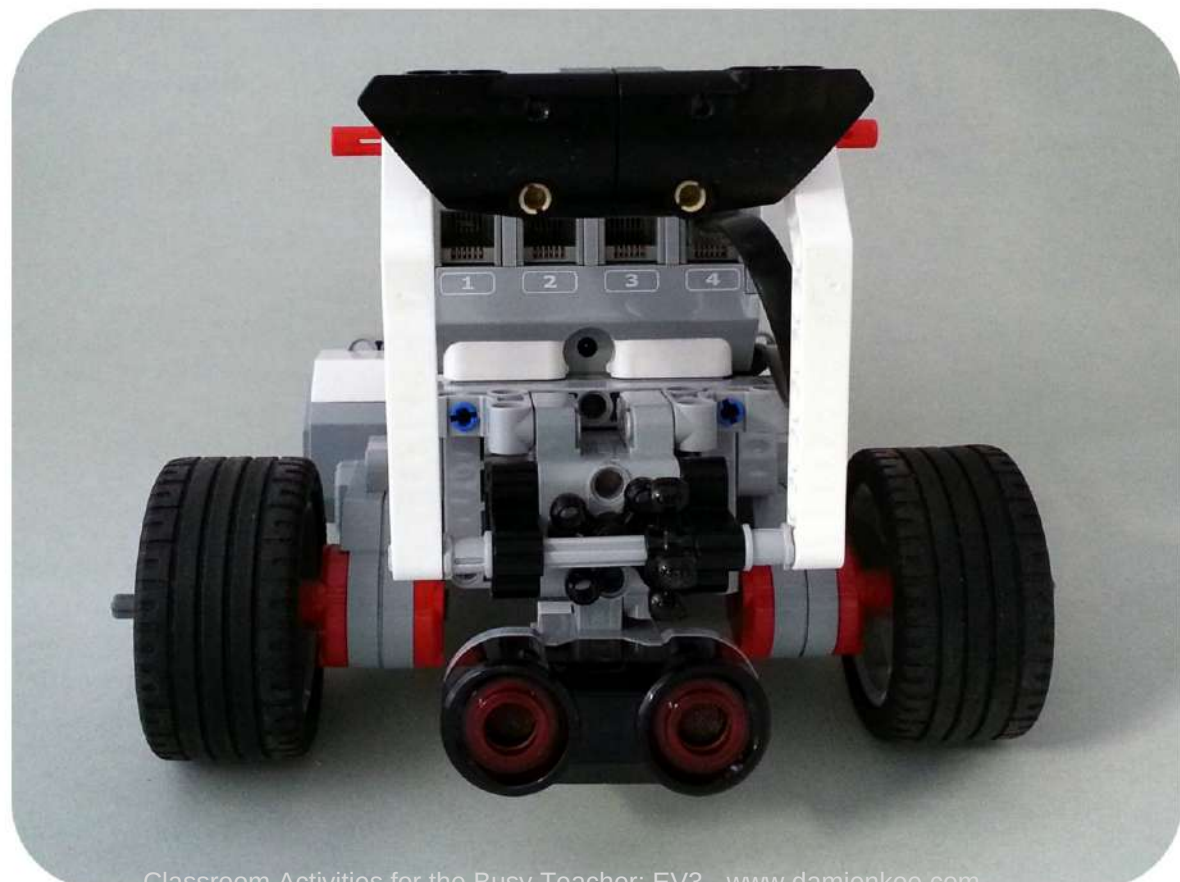
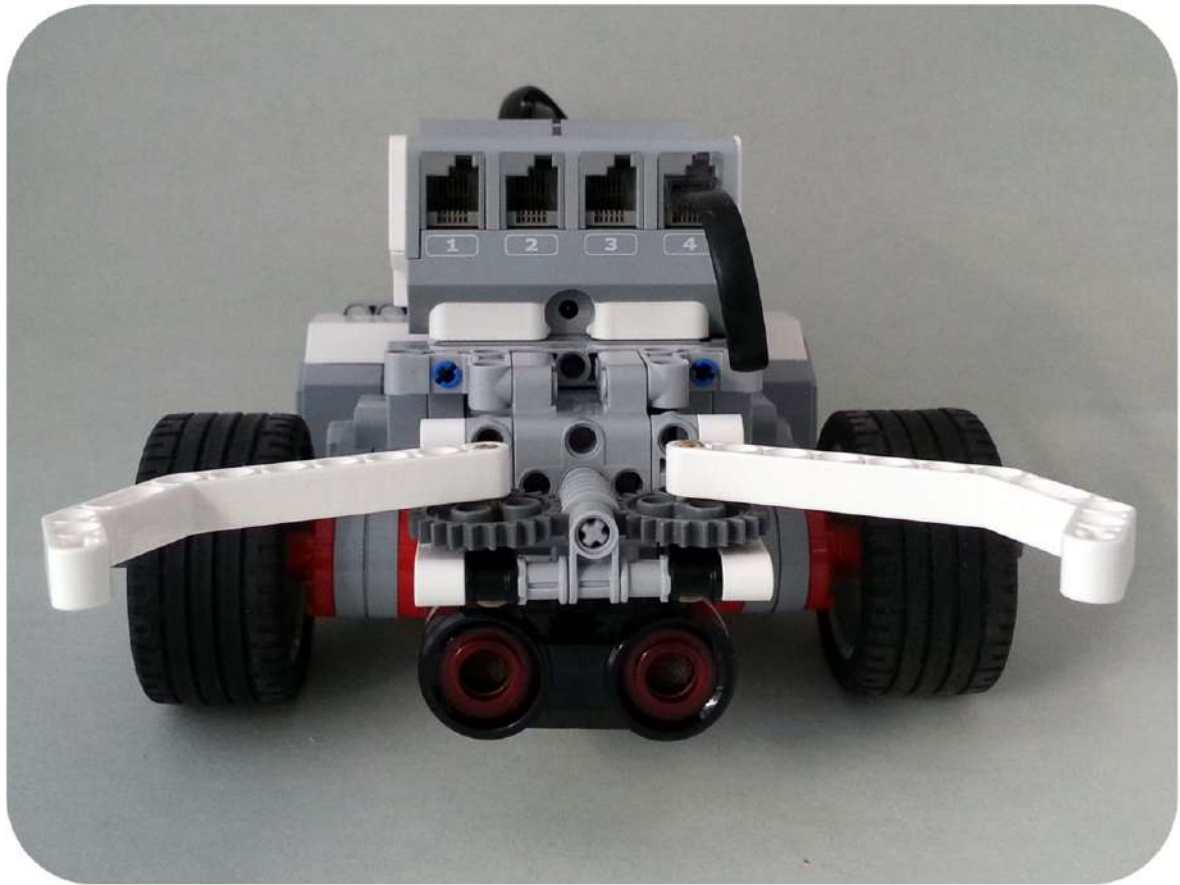
Attach the Cargo Delivery Attachment to the front of the Robot



The 'Signal Repeater' will sit loosely in the Cargo Delivery arm when in a raised position. Lower the Cargo Delivery arm to drop the Signal Repeater

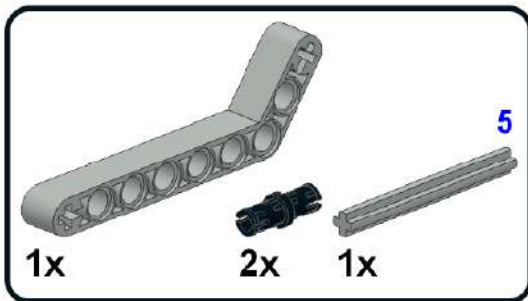


The Ultrasonic Sensor Attachment can be used with both the Cargo Delivery Attachment and Gripper Attachment

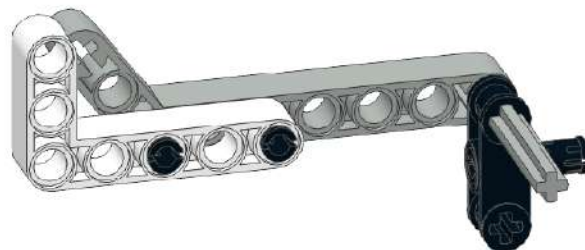
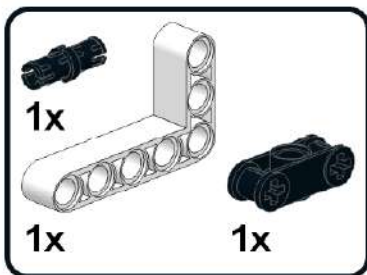


Combined Colour - Ultrasonic Sensor Attachment

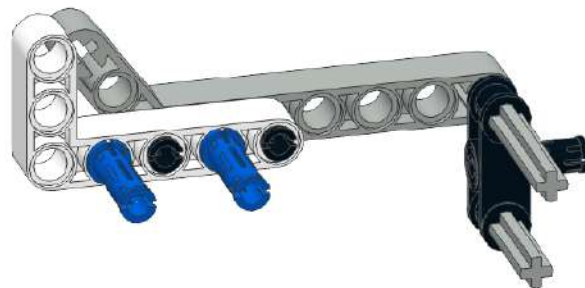
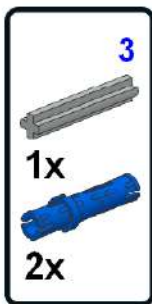
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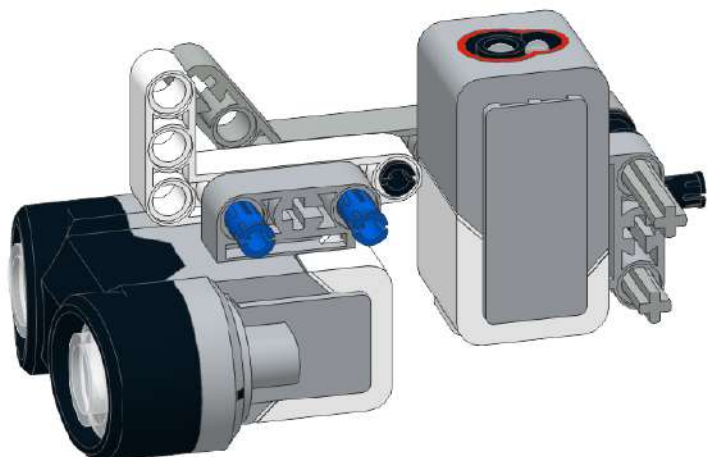
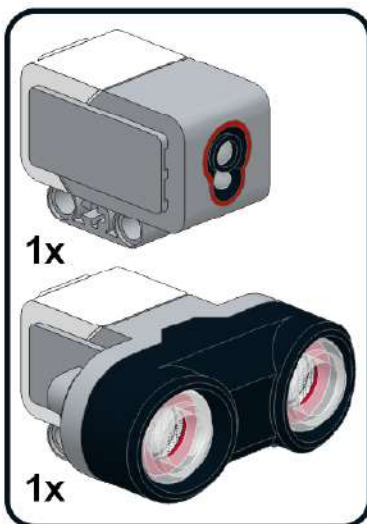
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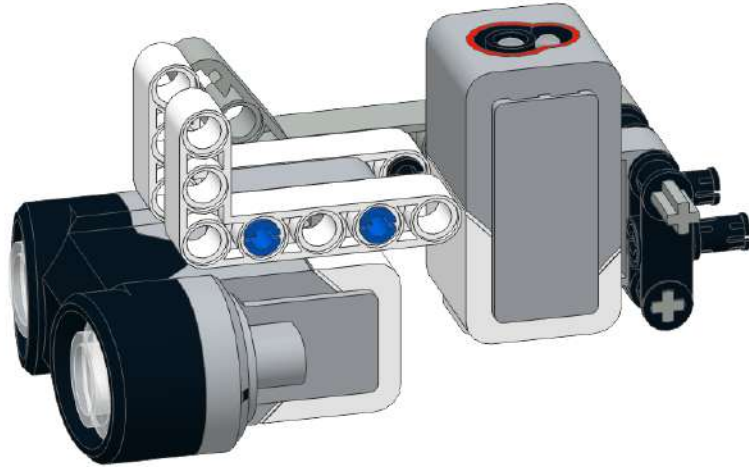
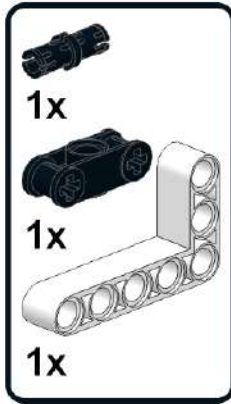
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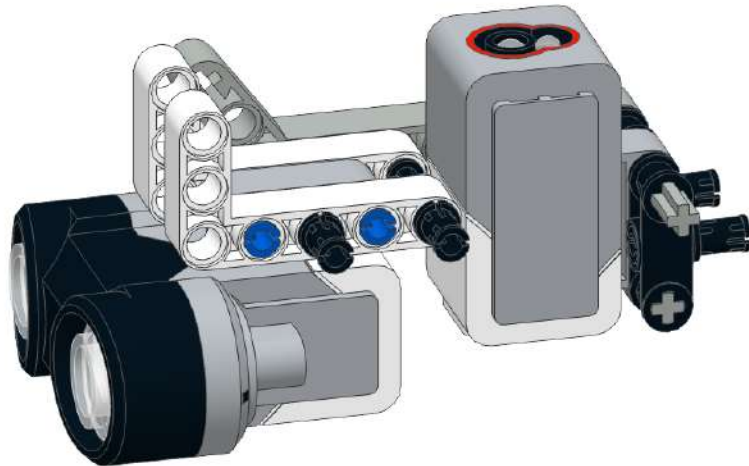
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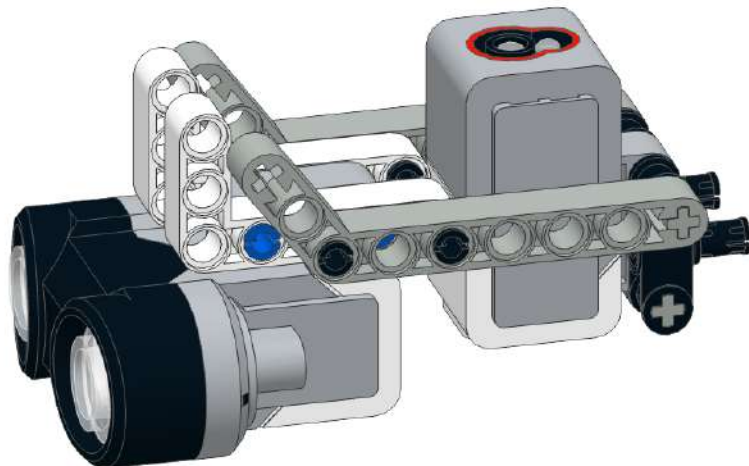
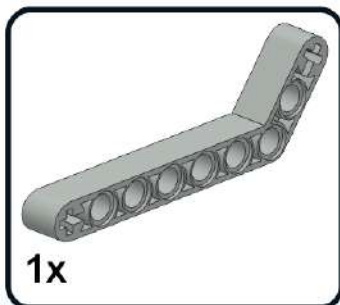
5



6



7



Snap the combined Colour-Ultrasonic Sensor Attachment to the front of the robot

