

Spin Art

Building: 

Program: 

Designed for **NXT 1.0** (8527, or 9797 + 9695/9648)

Building Instructions

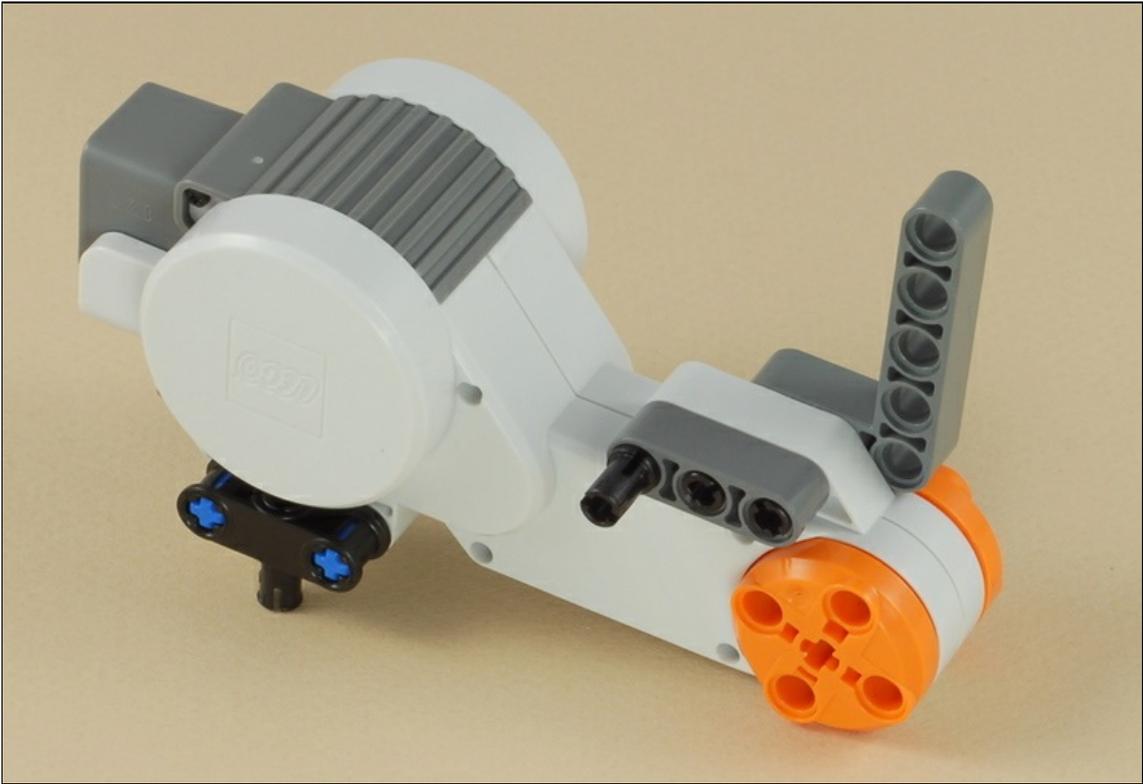
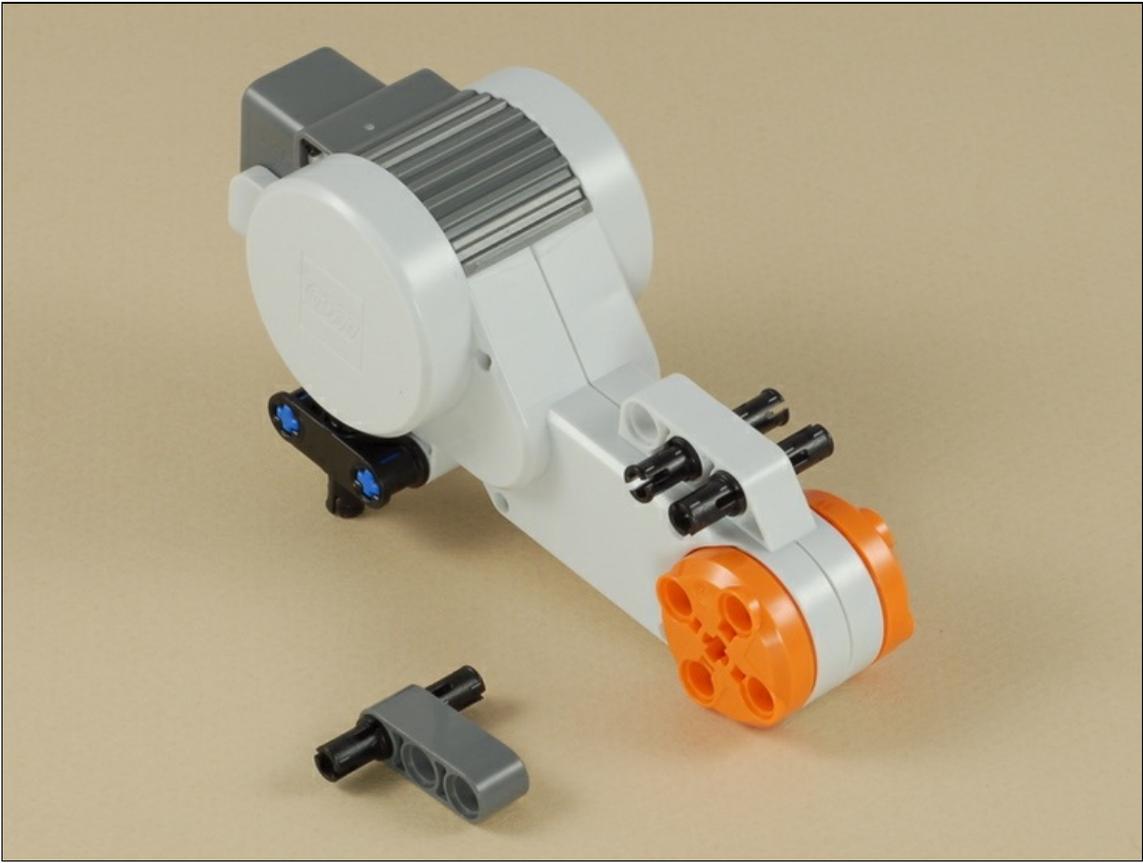
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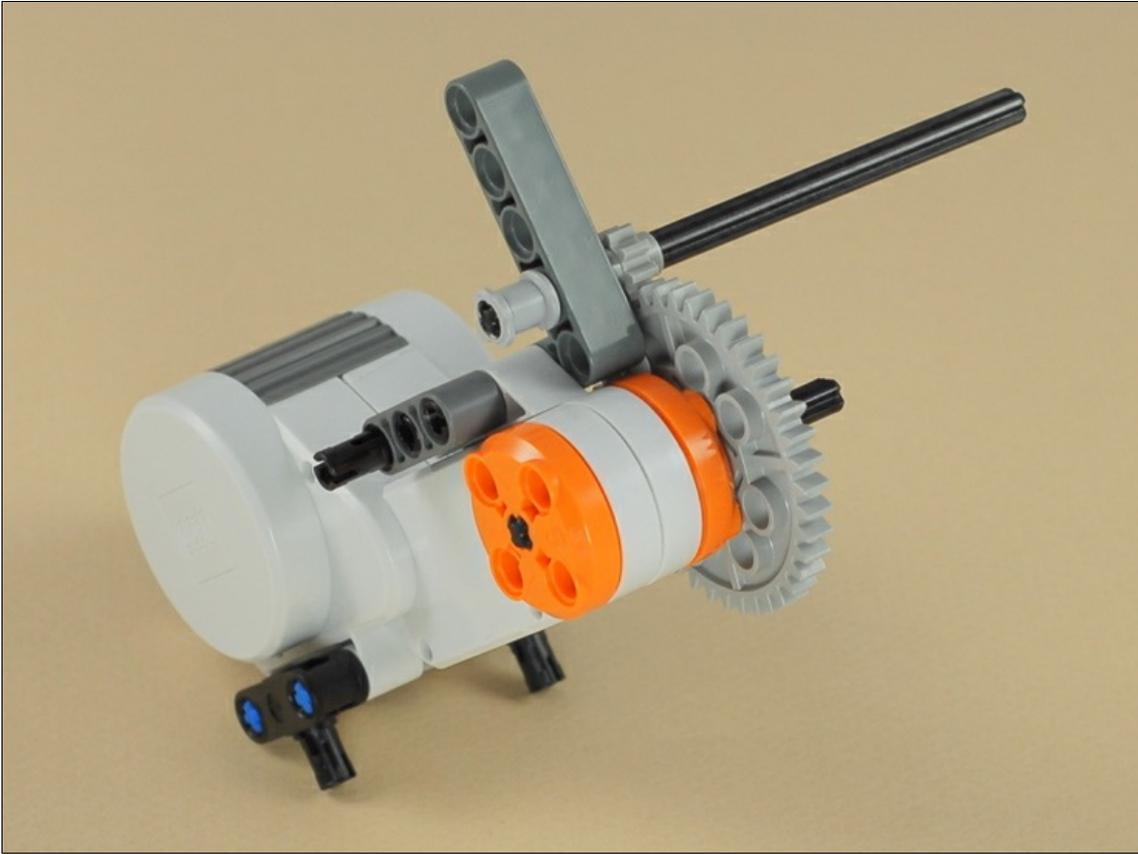
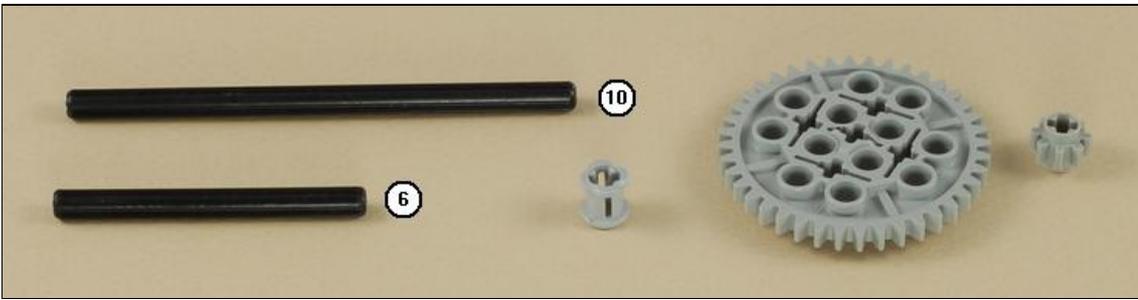


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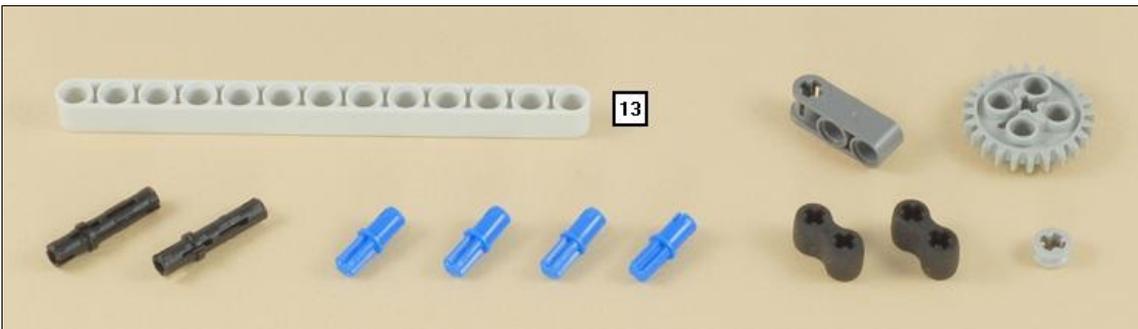


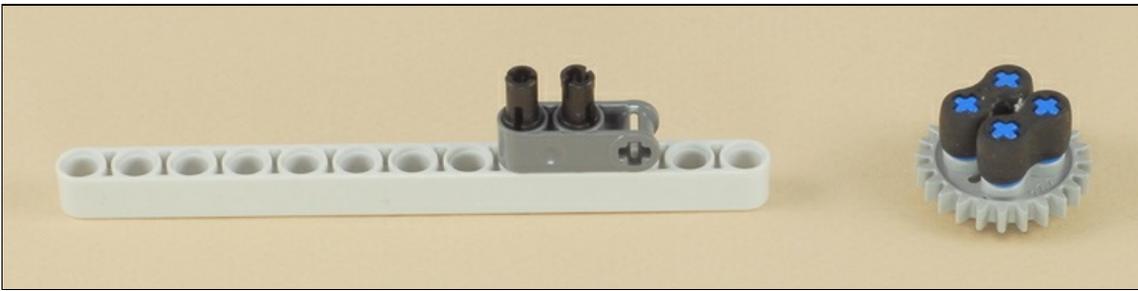


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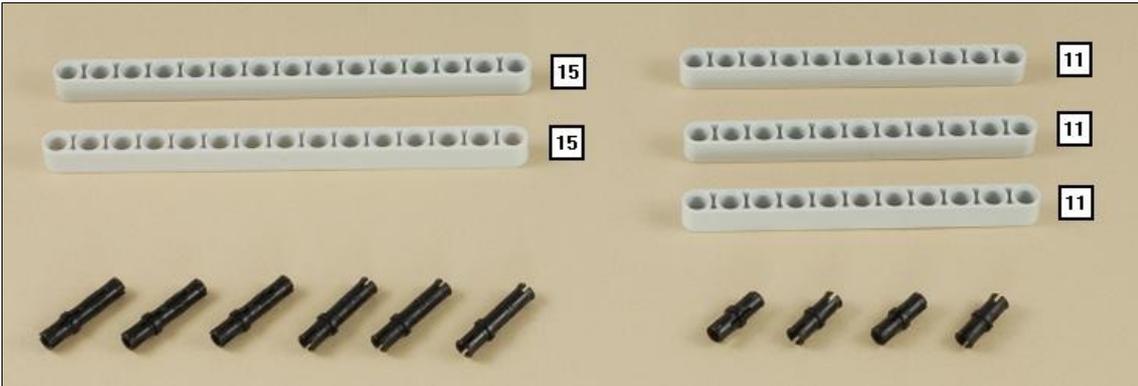


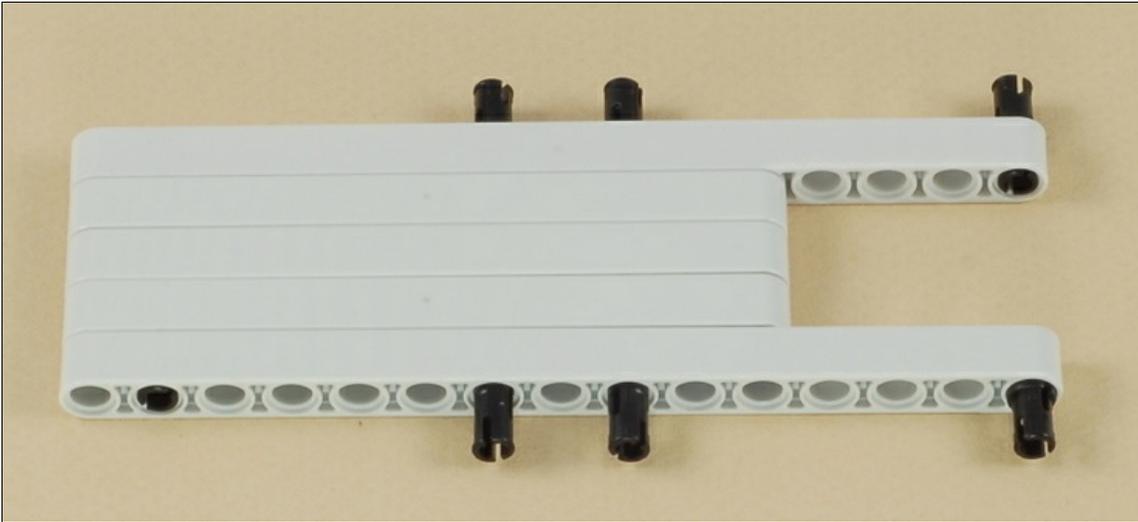
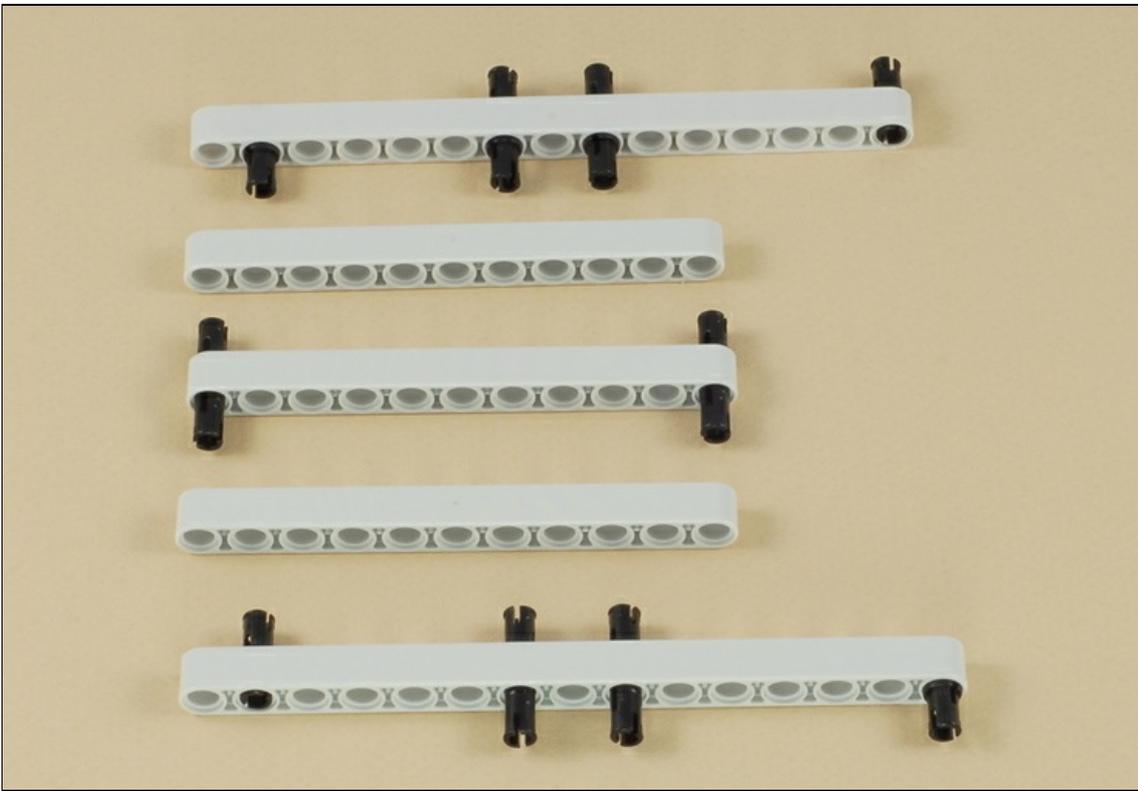
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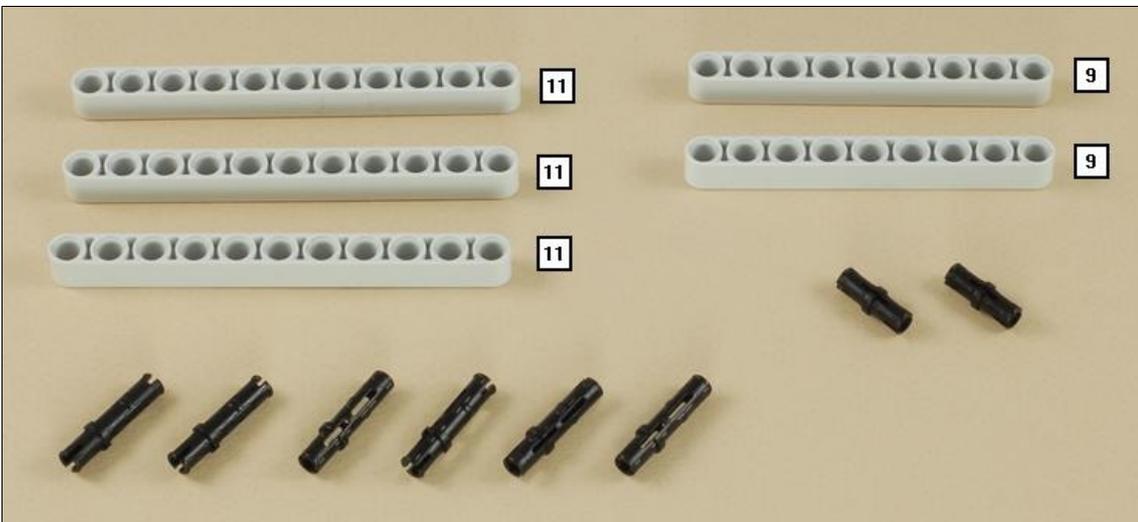


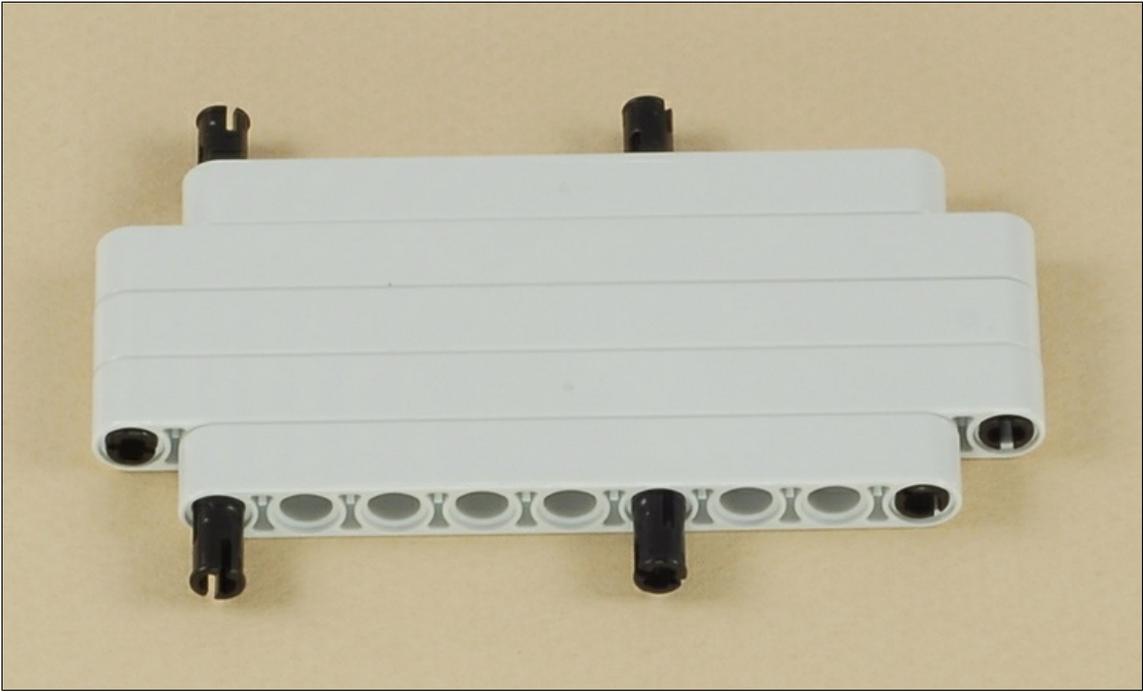
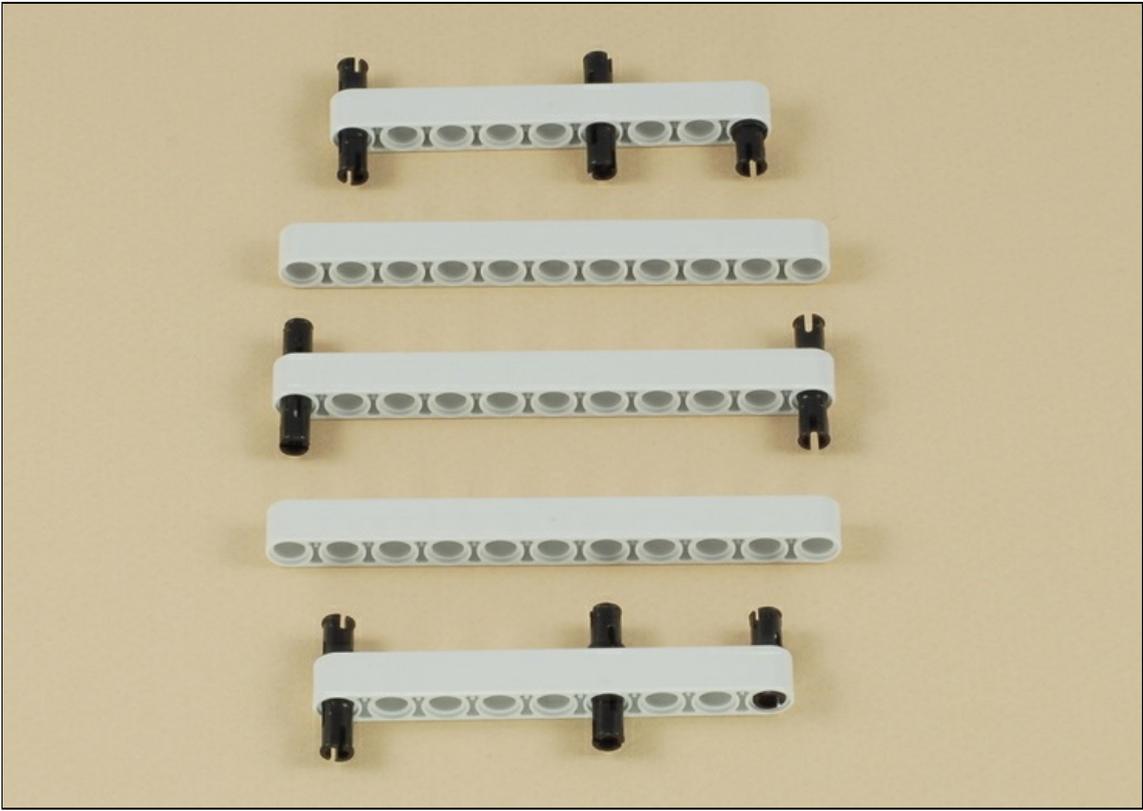
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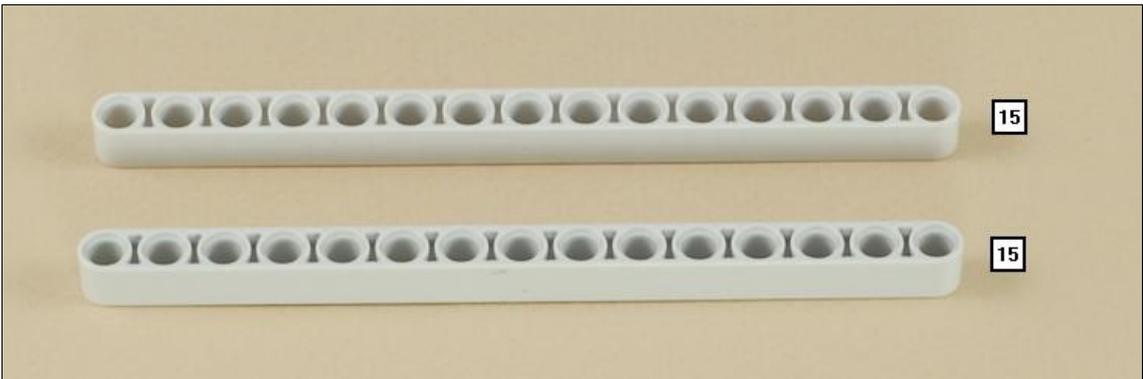


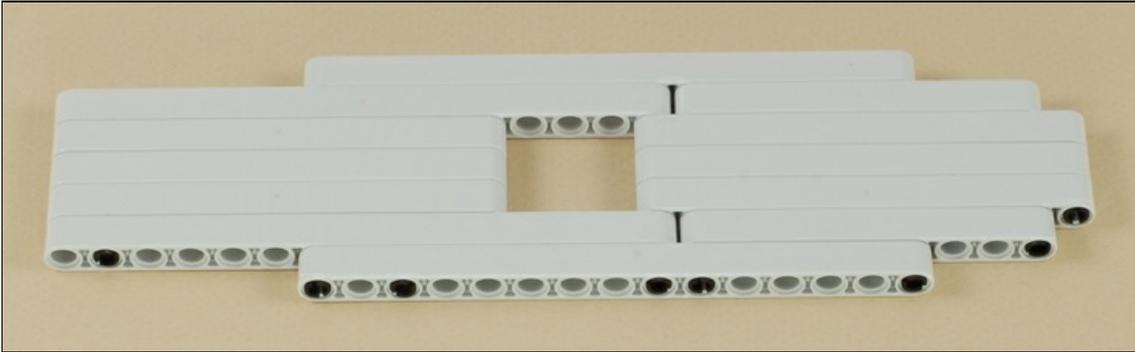
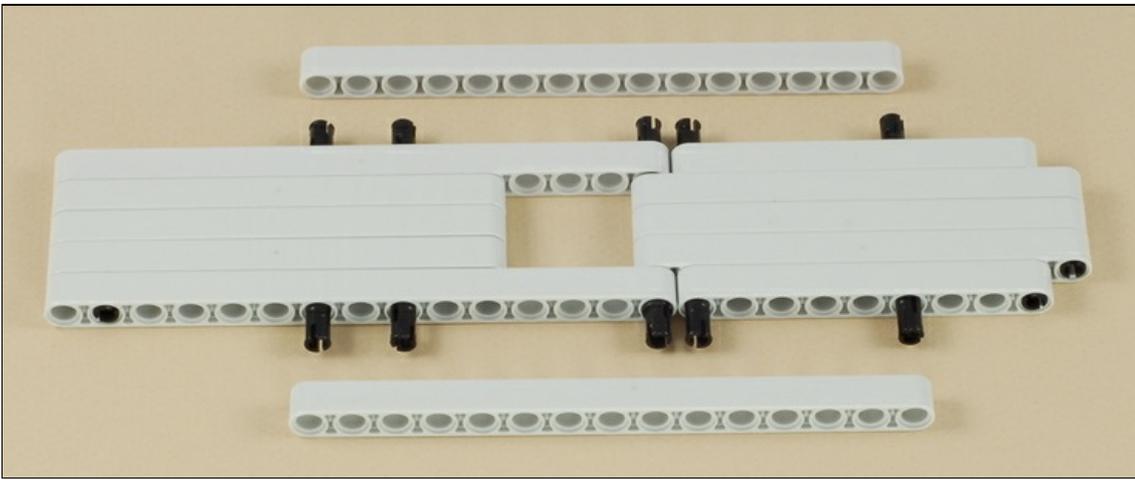
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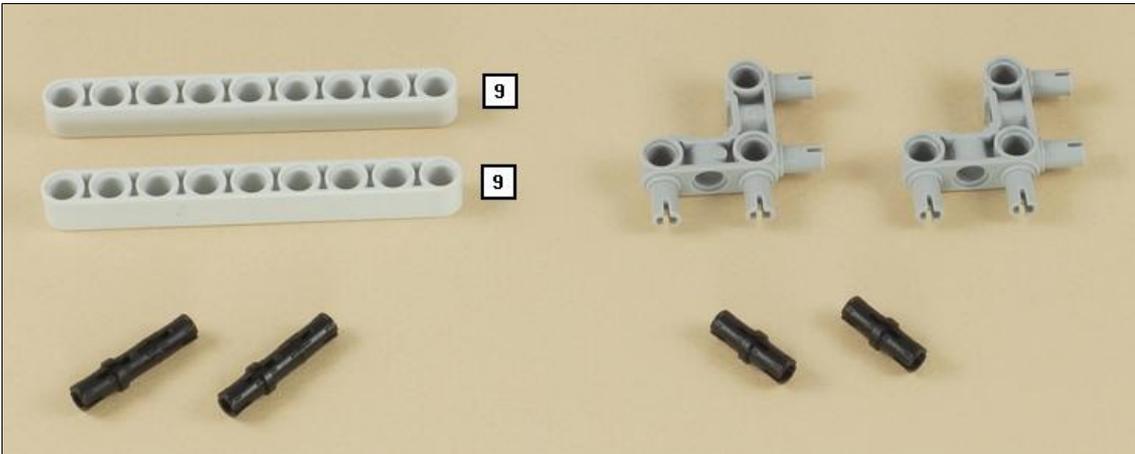


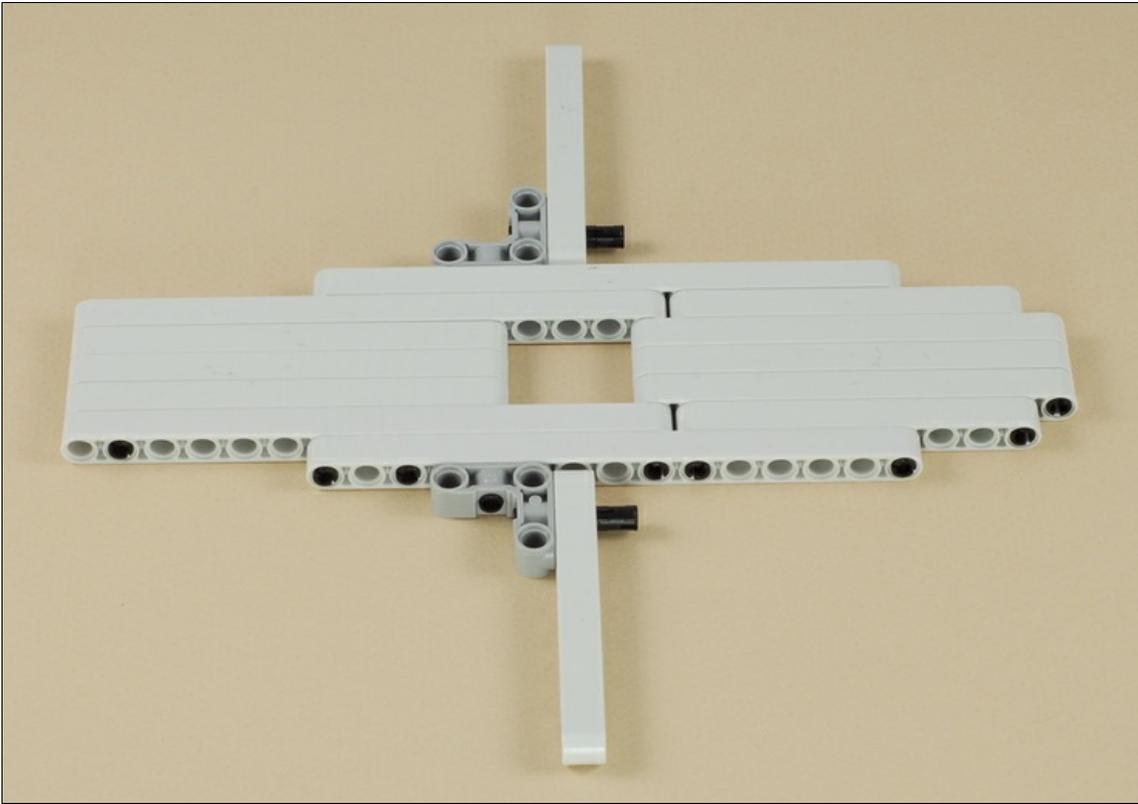
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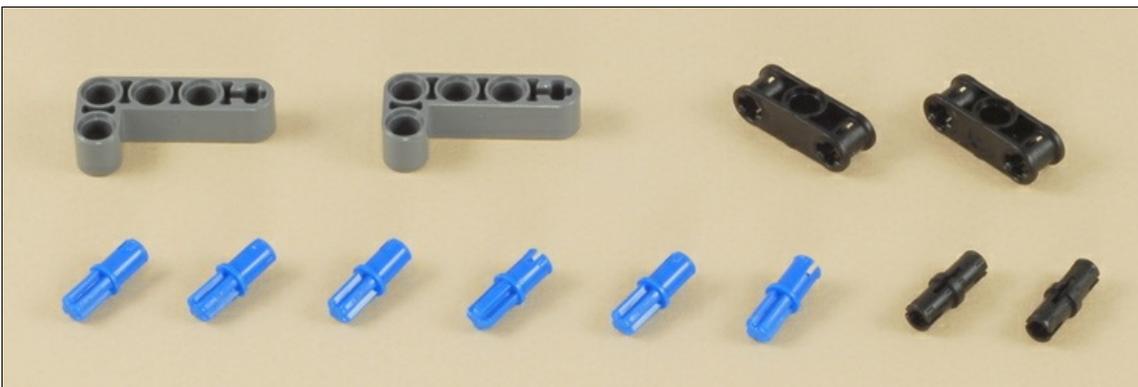


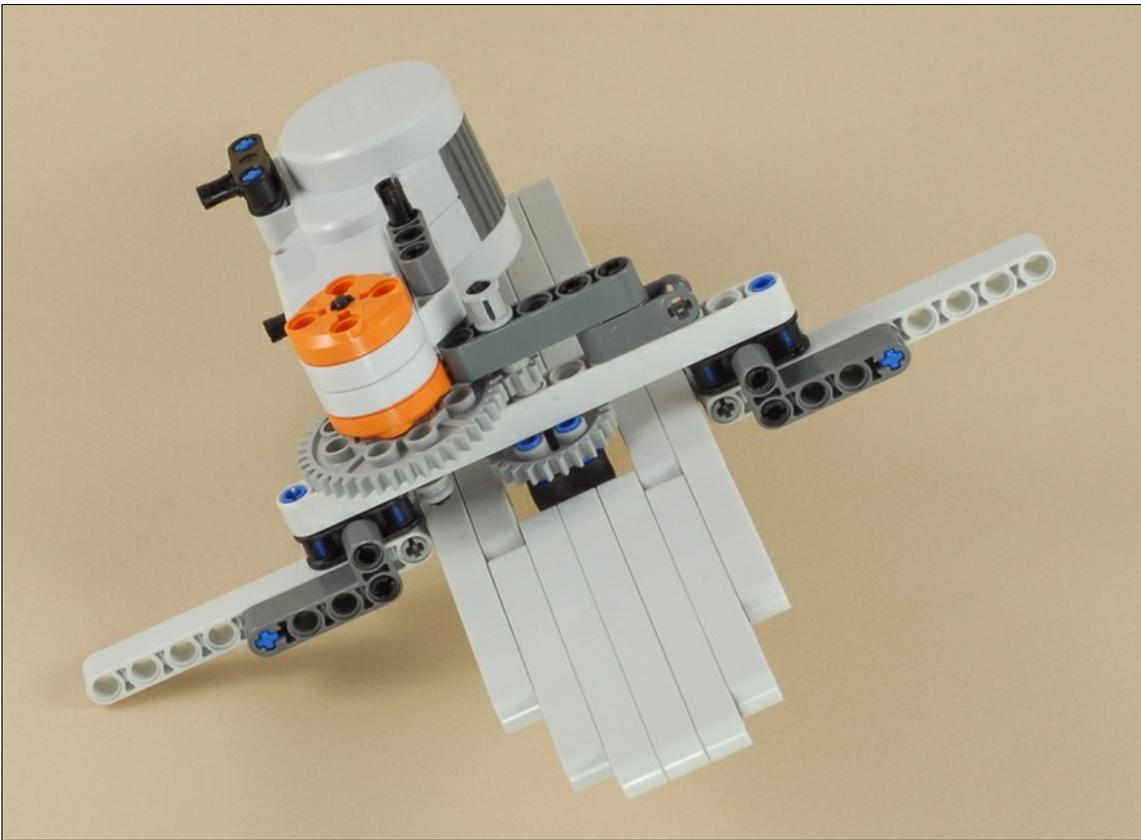
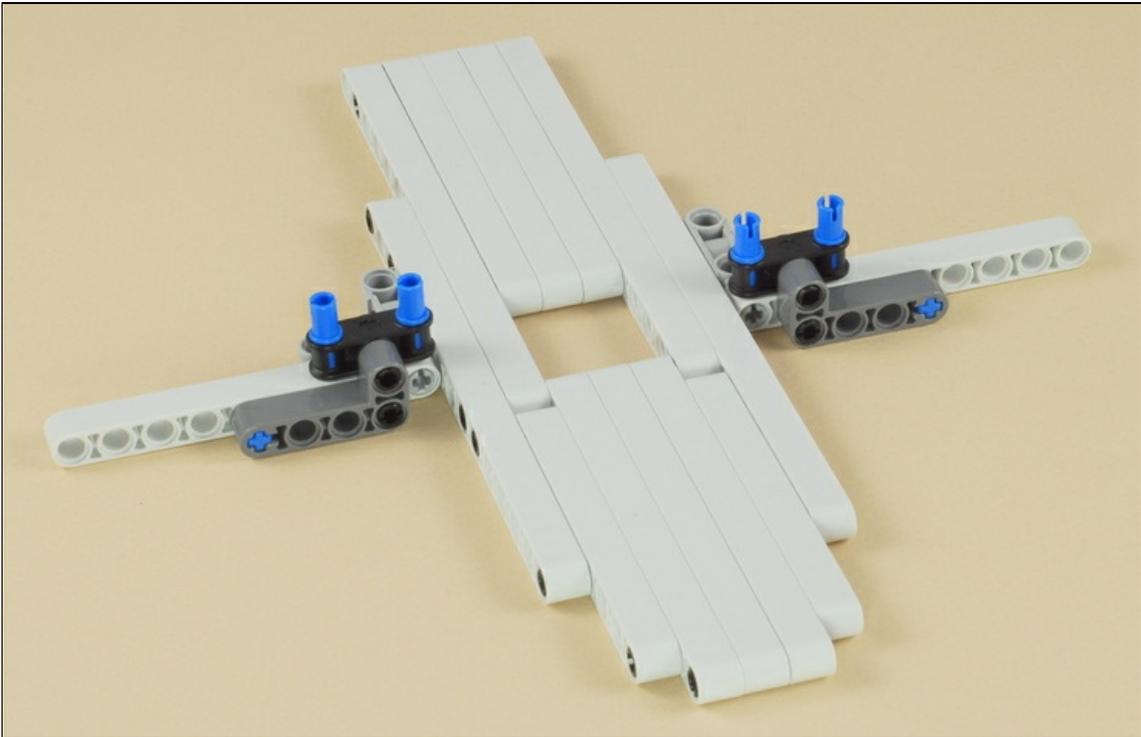
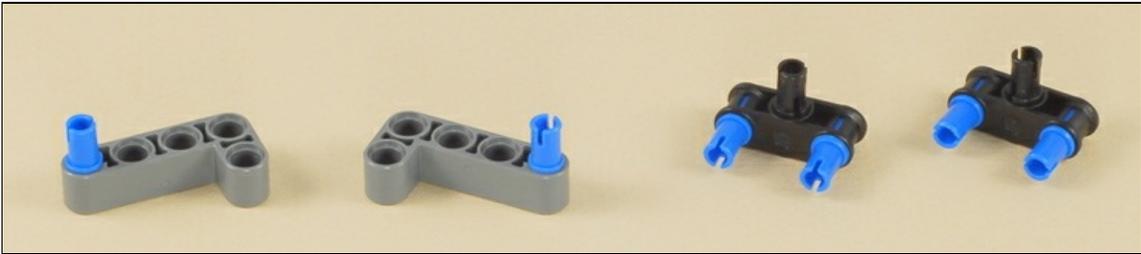
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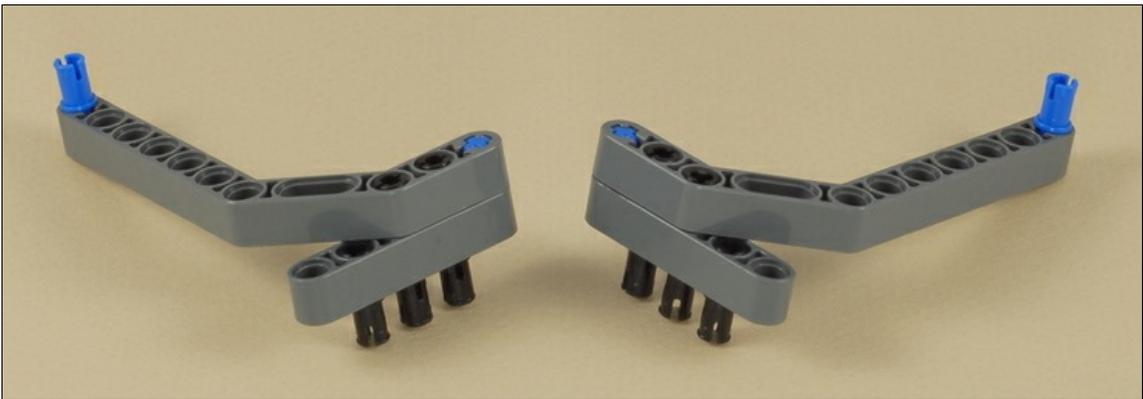
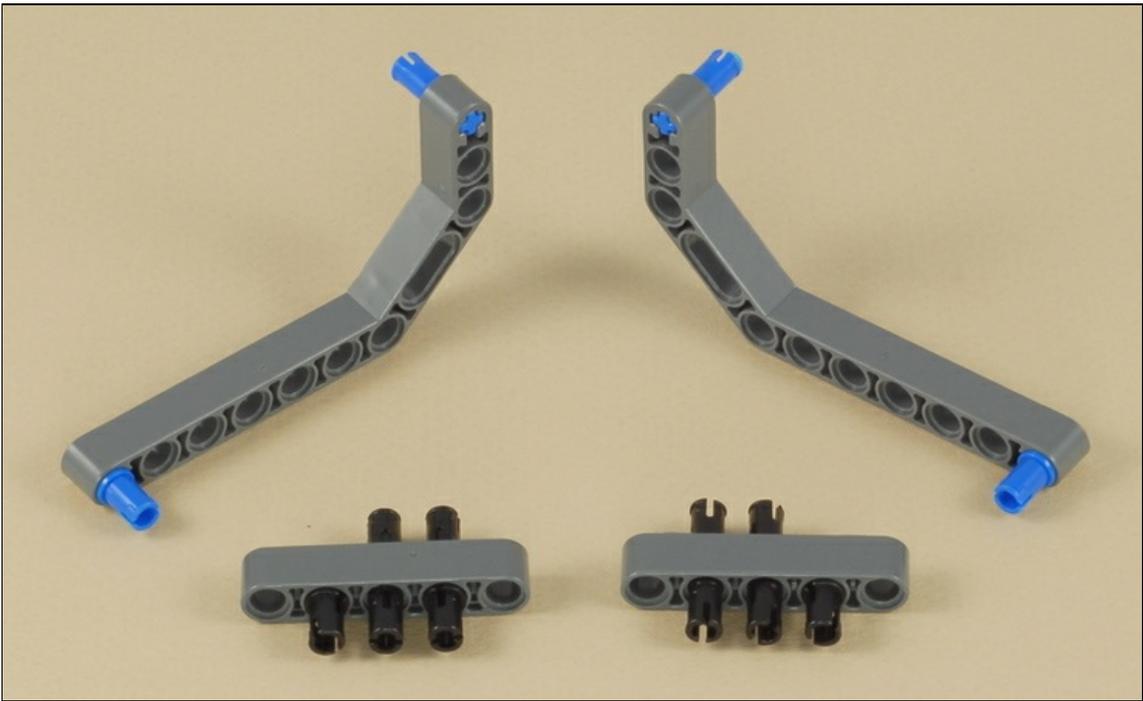
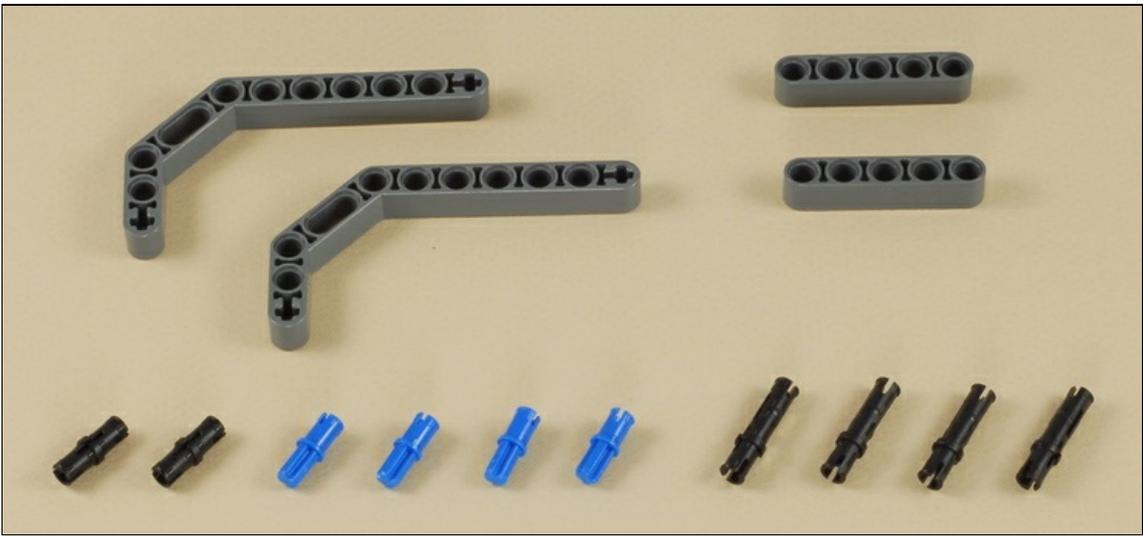


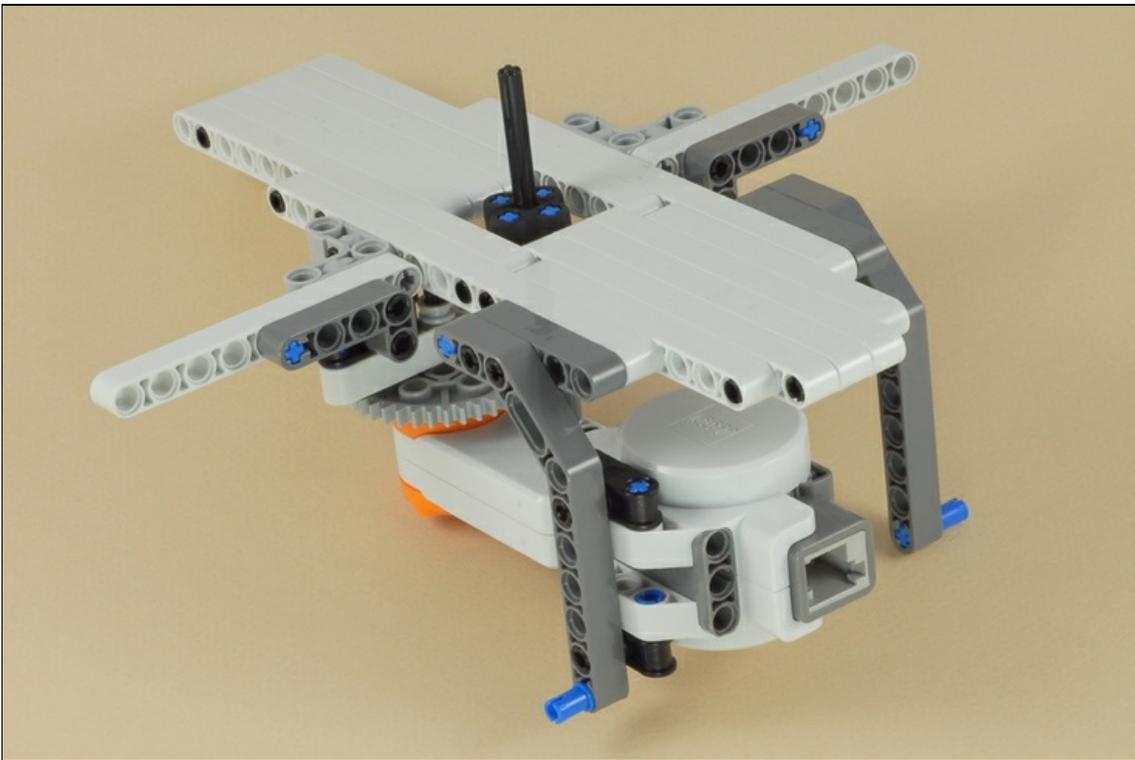


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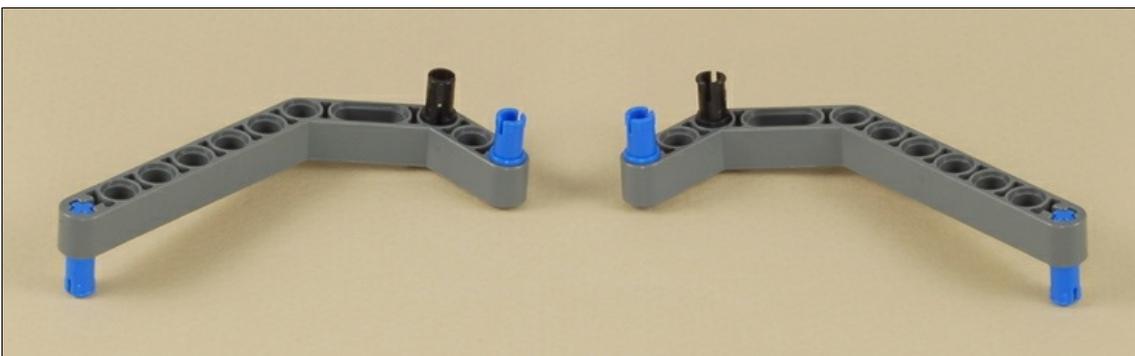
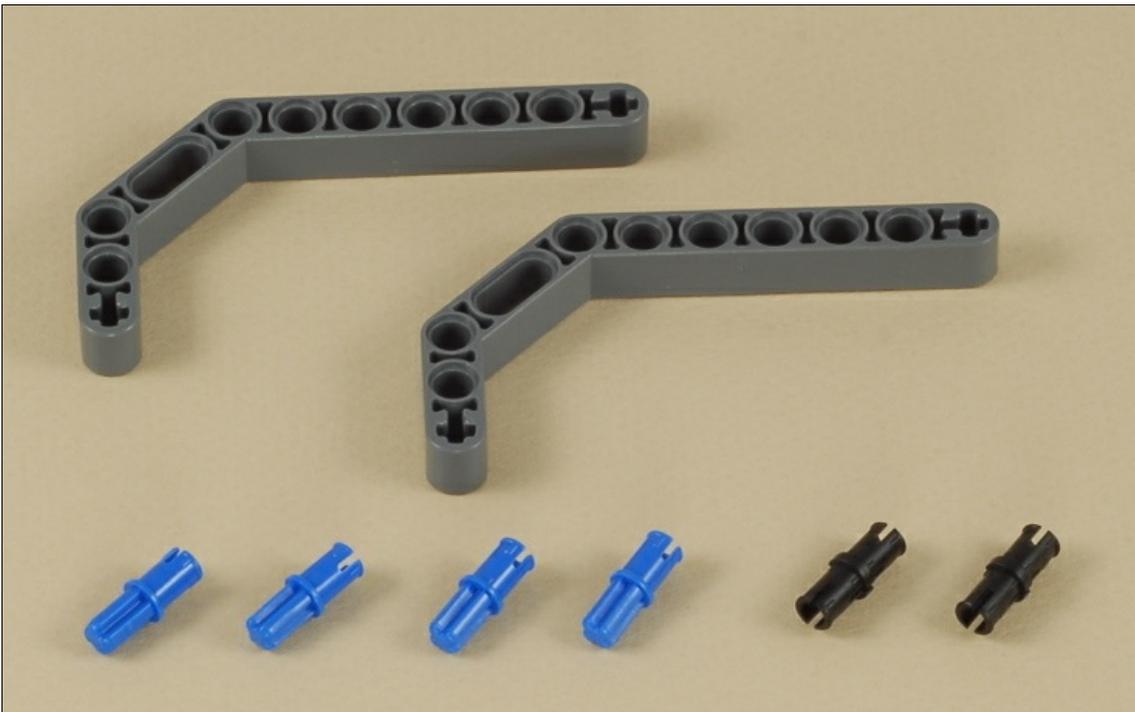


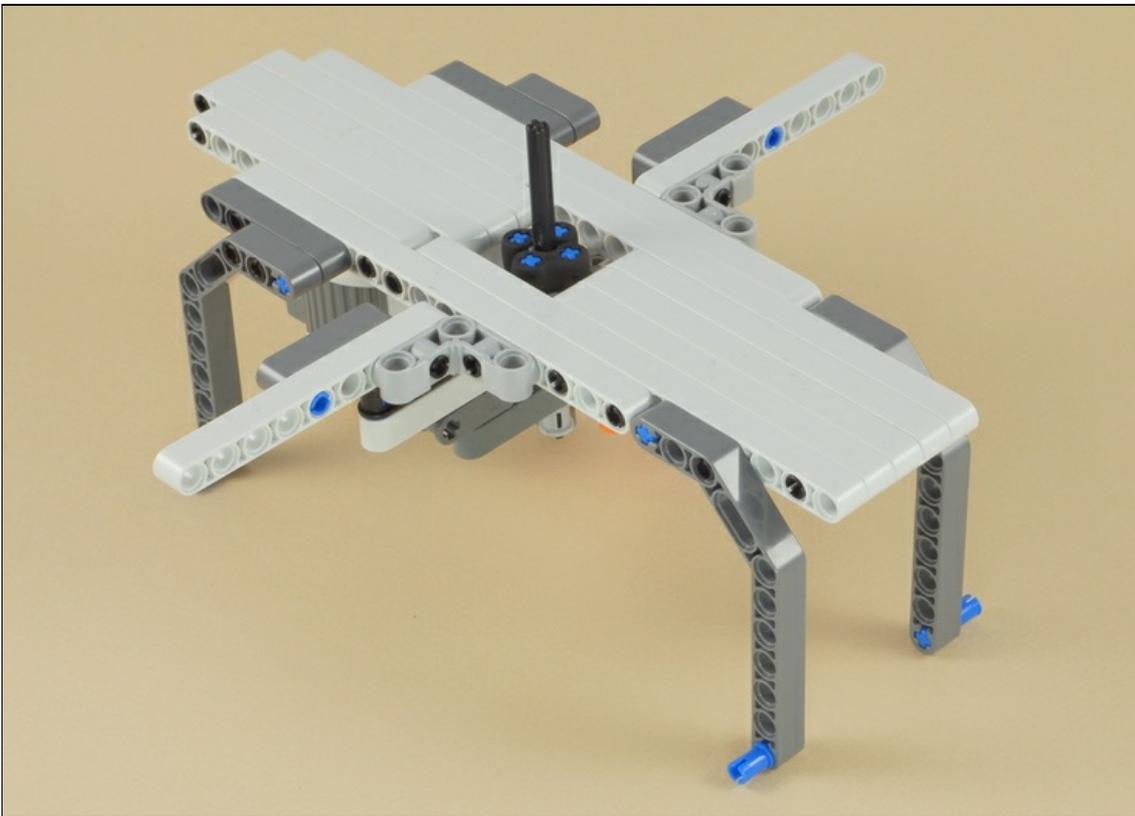




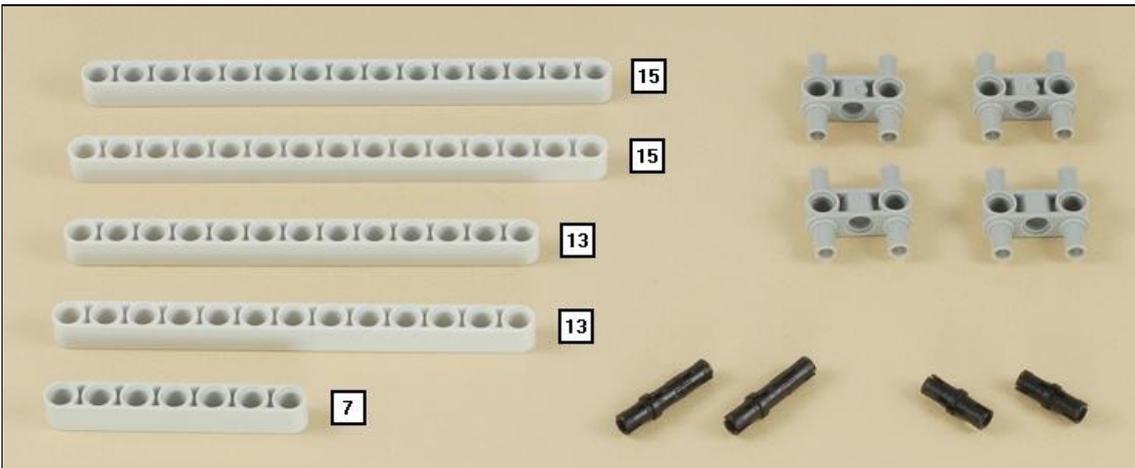


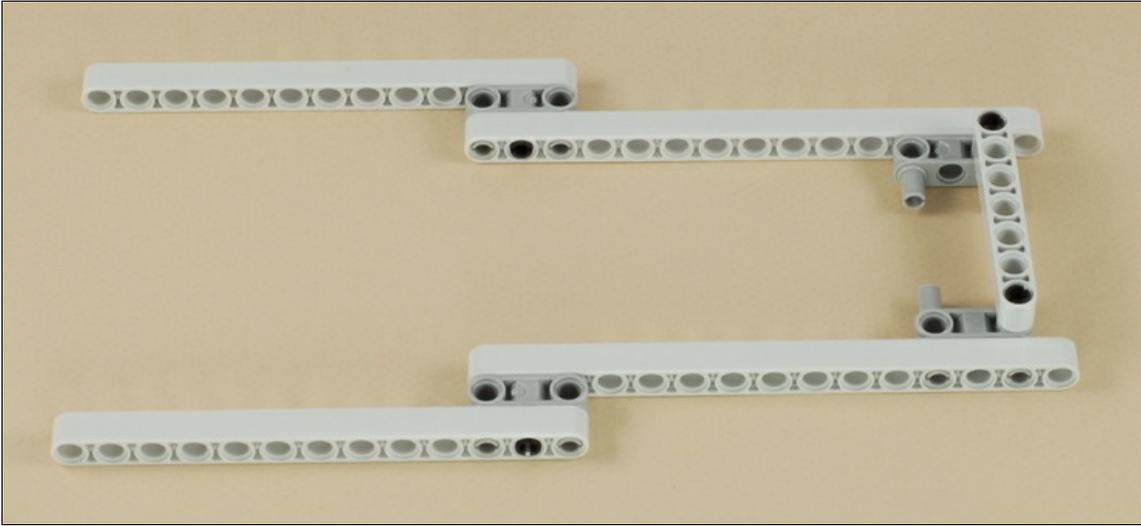
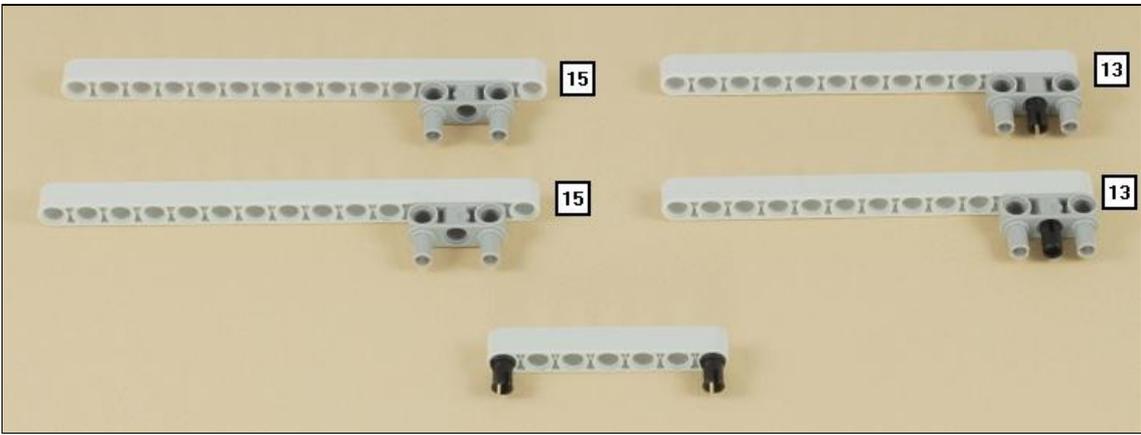
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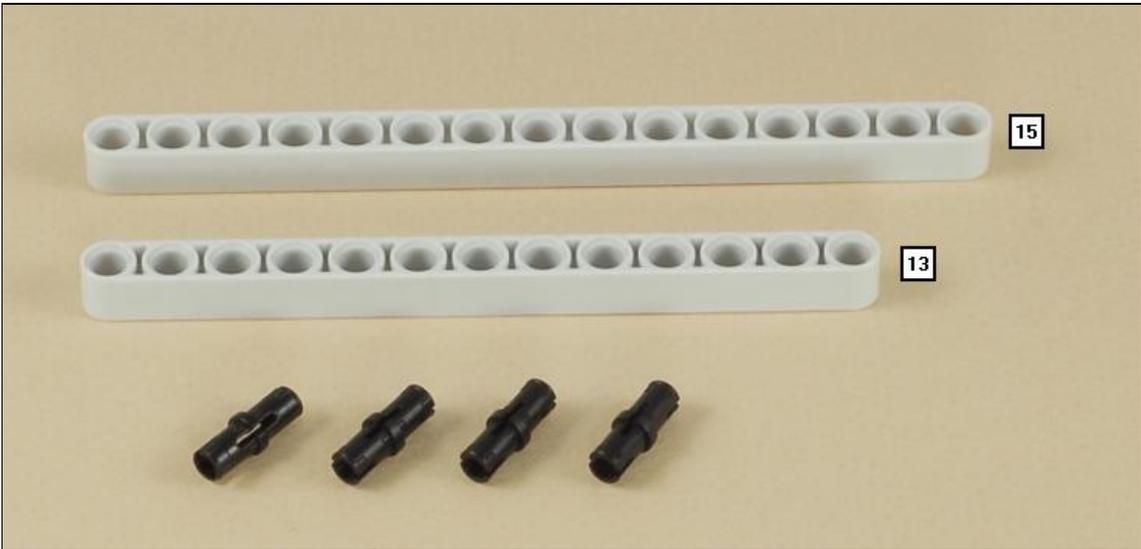


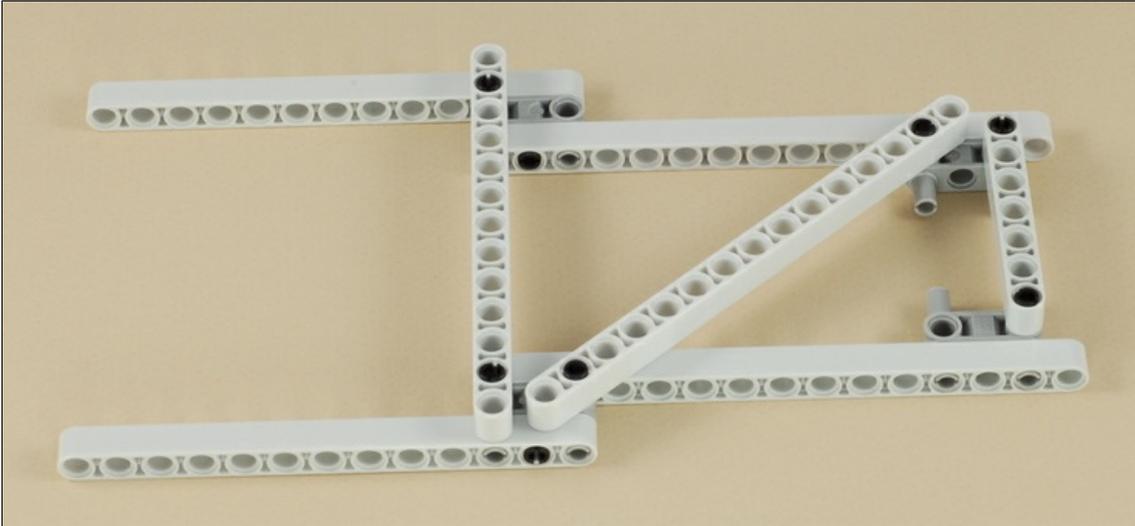
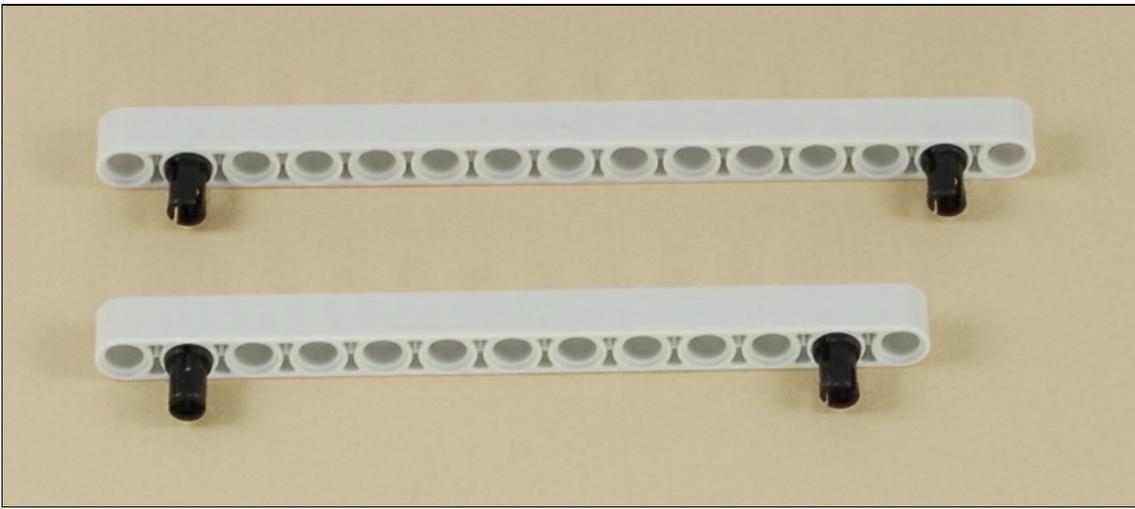
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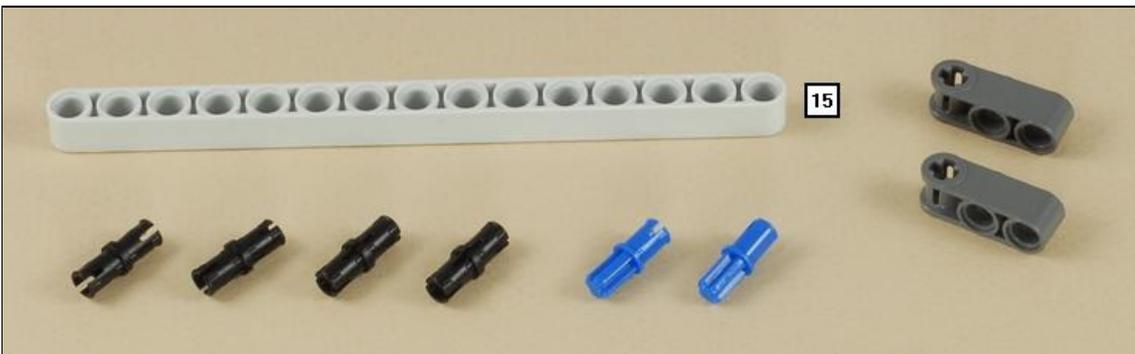


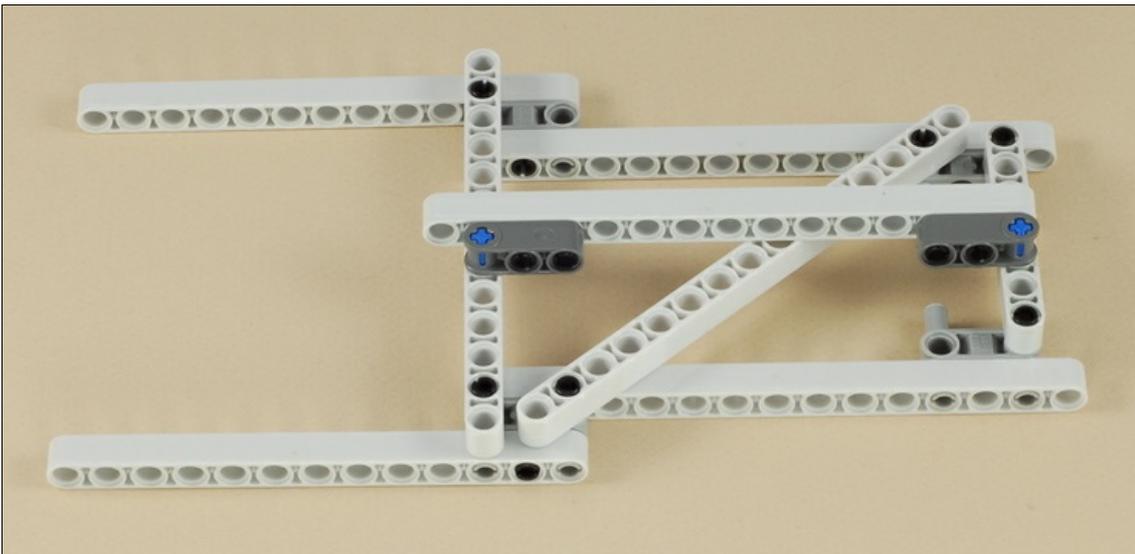
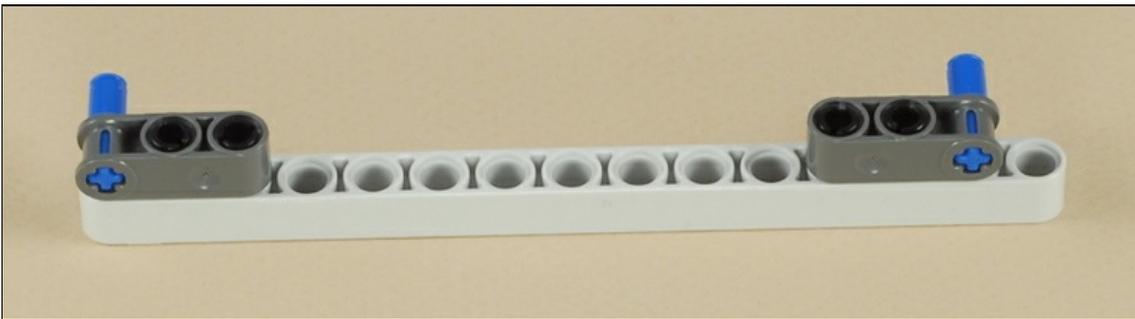
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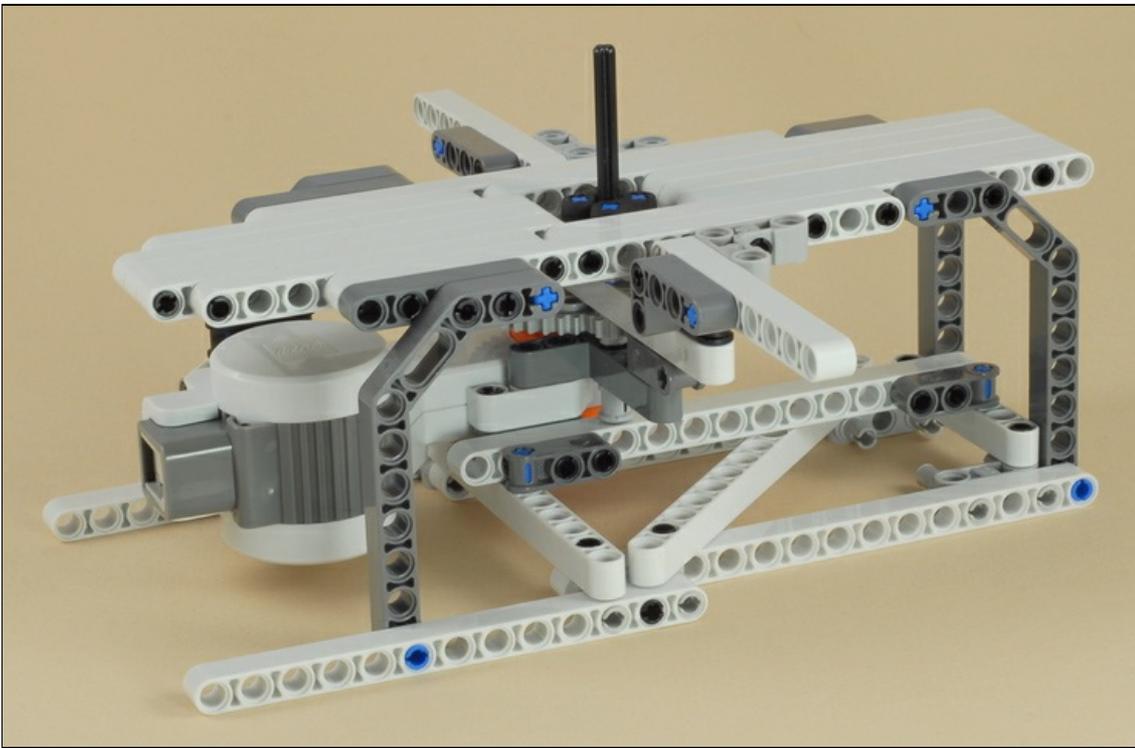


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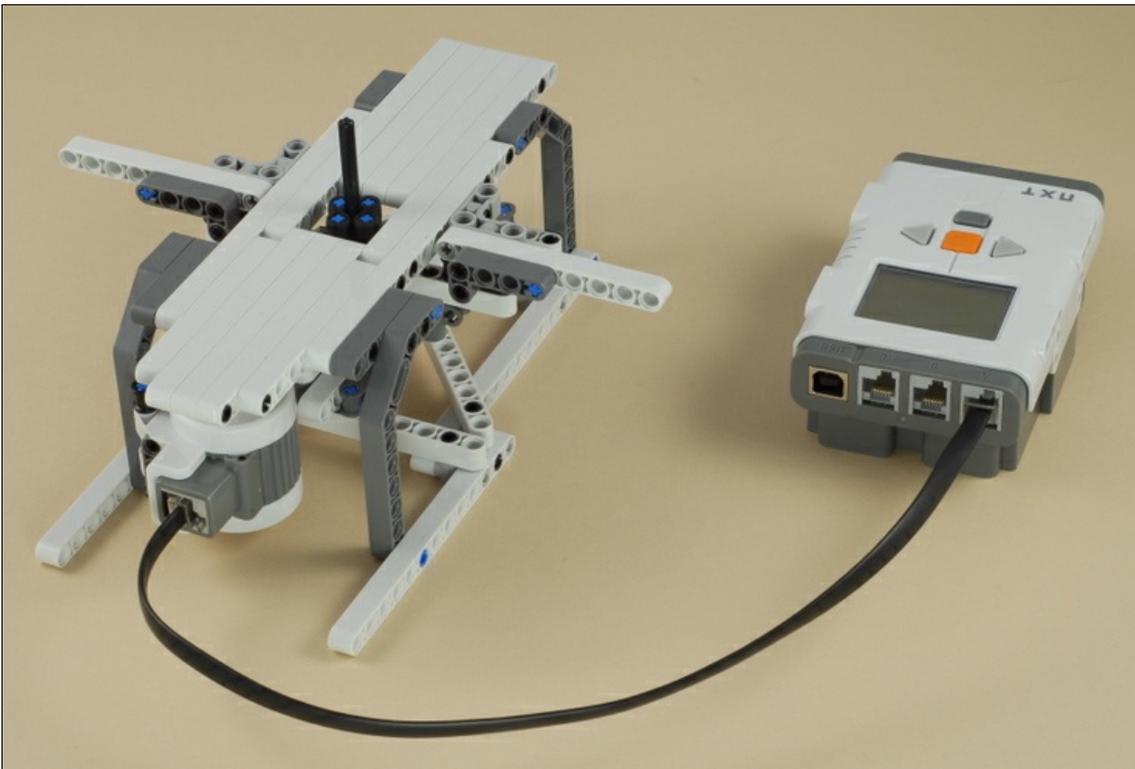


The four blue pins at the end of the legs peg into the base, and the pin at the bottom of the motor assembly must also peg into the cross bar in the base.

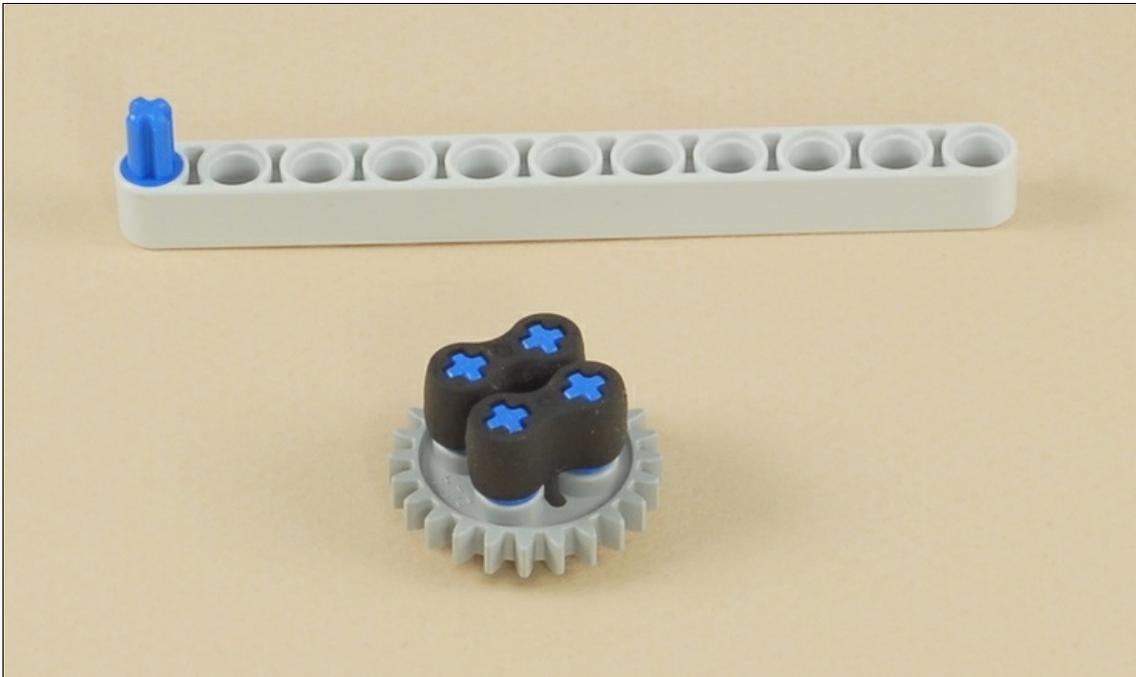
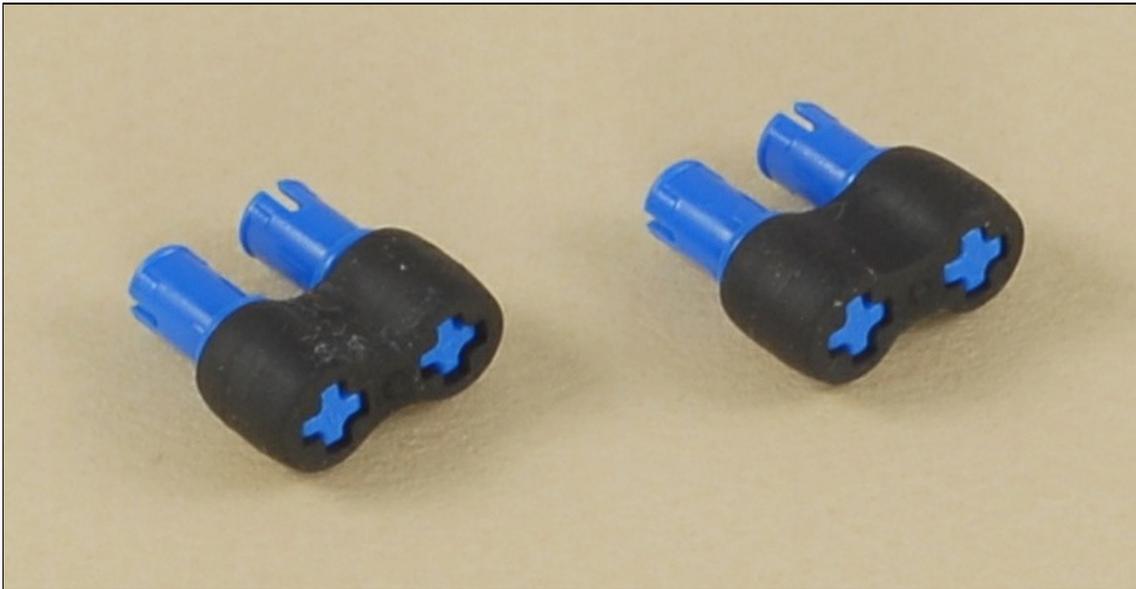
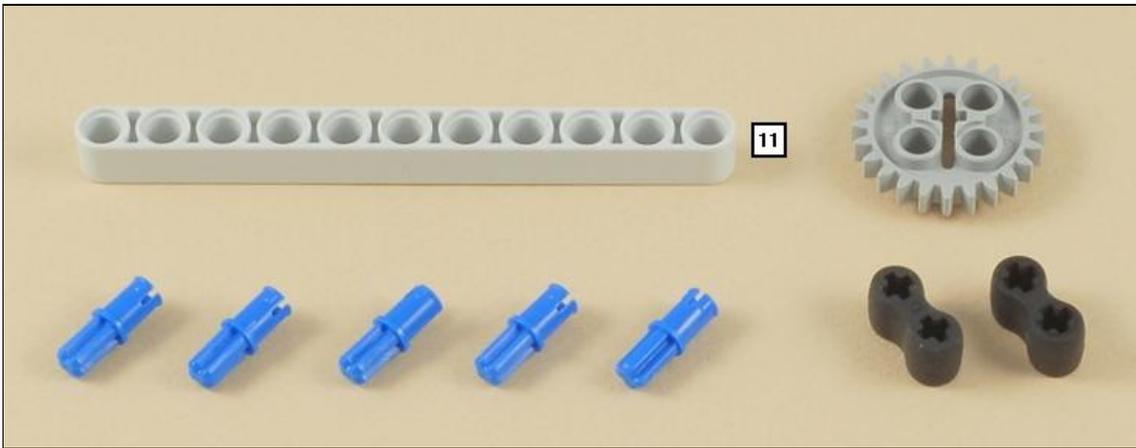


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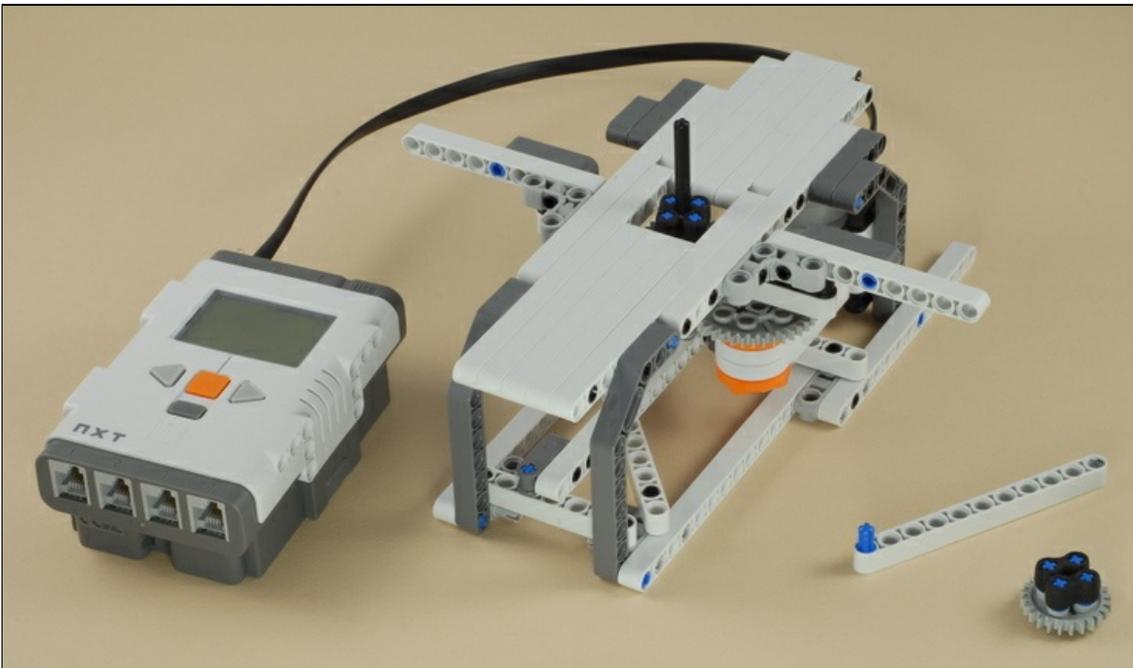
Use a medium or long wire to connect the motor to port **A** on the NXT.



16



These two parts are used to cut out and attach the paper circles. They are not attached anywhere.



Spin Art Programming

Use the program [Spin A](#) for the Spin Art machine. This program is called "Spin A" because it spins the motor connected to port A on the NXT. The program also allows you to control the speed of the motor with the buttons on the NXT brick. This program could be used for any creation you make that needs one motor turning, with the ability to control the motor speed.

Using the Spin Art Machine

To make spin art, you will need to cut out circular pieces of paper. The separate 11-hole beam with the blue peg at the end can be used to help you mark out circles for cutting, and the gear with the rubber pieces on it is used to attach them to the spinning machine. See the [Instructions for Using the Spin Art Machine](#) for details.

Important: Make sure both sides of the paper you use are clean and not printed or written on in any way. Do not turn over your circles and use the bottom side after drawing on the top. Any ink on the bottom side of the paper circles will rub off onto the white LEGO beams of the Spin Art machine. This includes paper already printed on one side with laser printer or copy machine toner or ink jet printer ink.

Challenges

- Try making some designs that seem to "move" when the disk is turning, such as spirals. Although the lowest power settings may not have enough power to turn the paper when a pen is touching it, you can use low speeds to view your designs that you made at a higher speed.
- Try drawing or printing some patterns on paper ahead of time and then spinning them to see what they look like. Some patterns can create some interesting optical illusions. Use the internet or books to find some ideas for spinning optical illusions. For example, [here](#) is an example of a pattern of black and white areas that looks like colors when spun!



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