

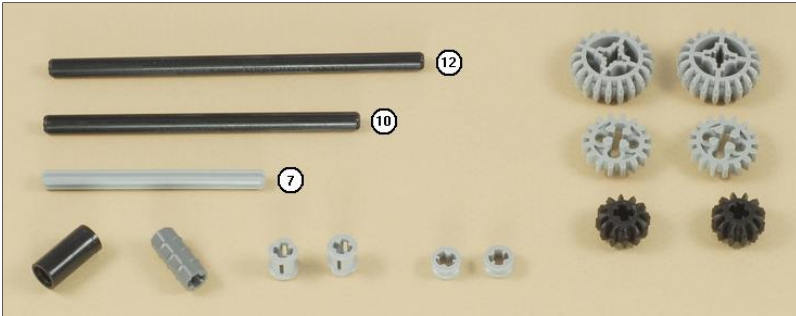
# 3-Speed Transmission with Clutch

Building:   
Program: 

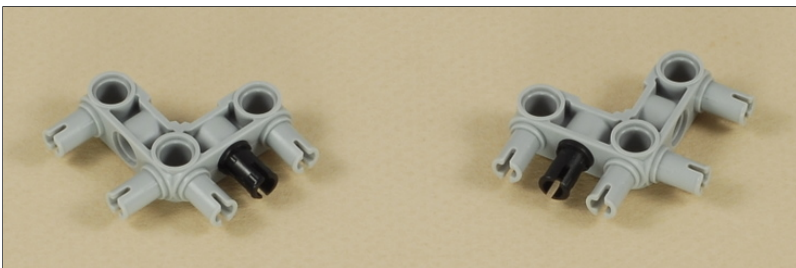
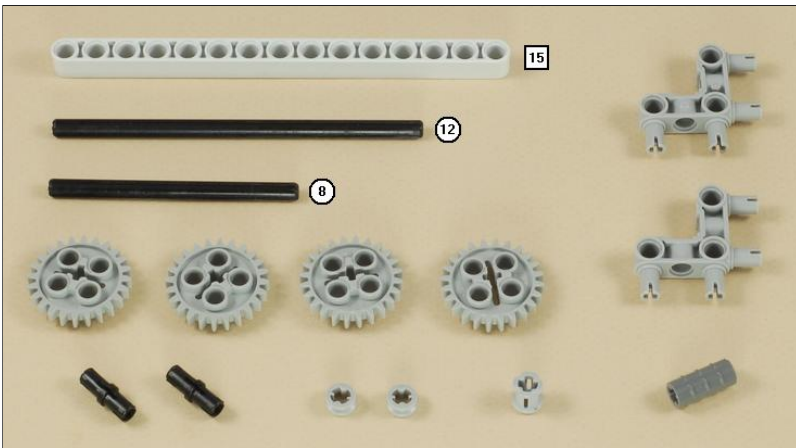
Designed for **NXT 1.0** (8527, or 9797 + 9695/9648)

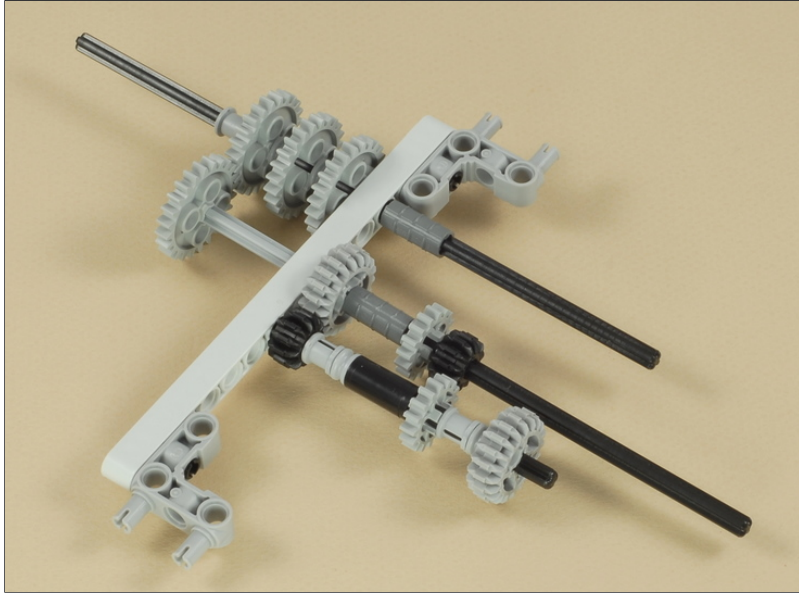
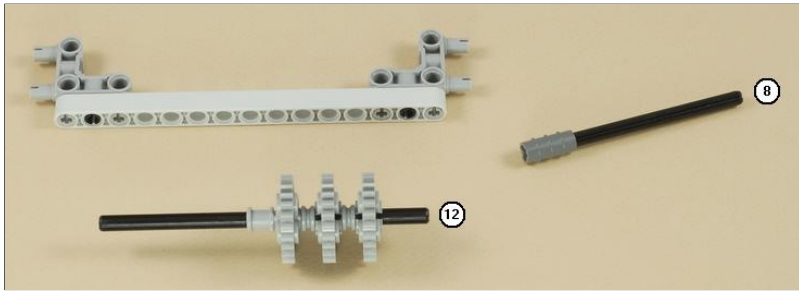
## Building Instructions

### 1

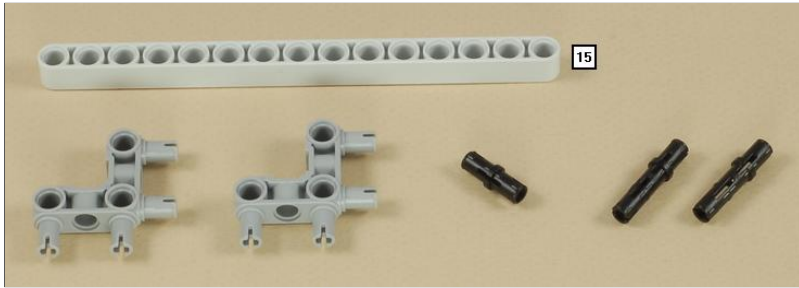


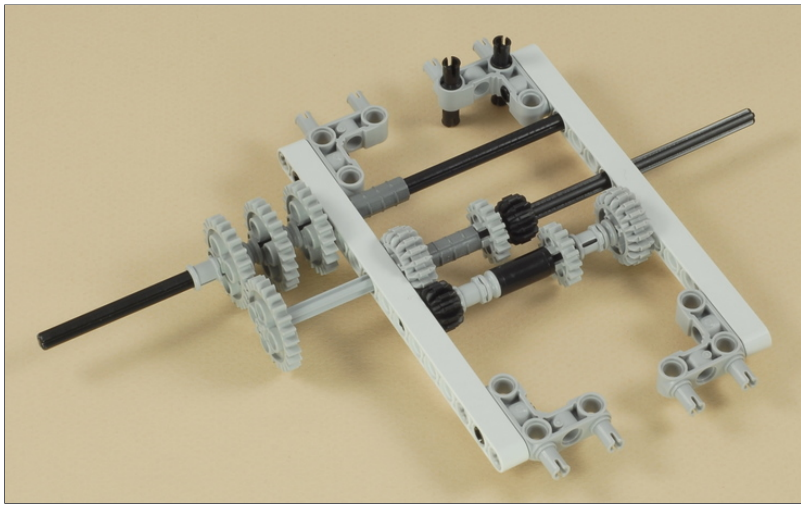
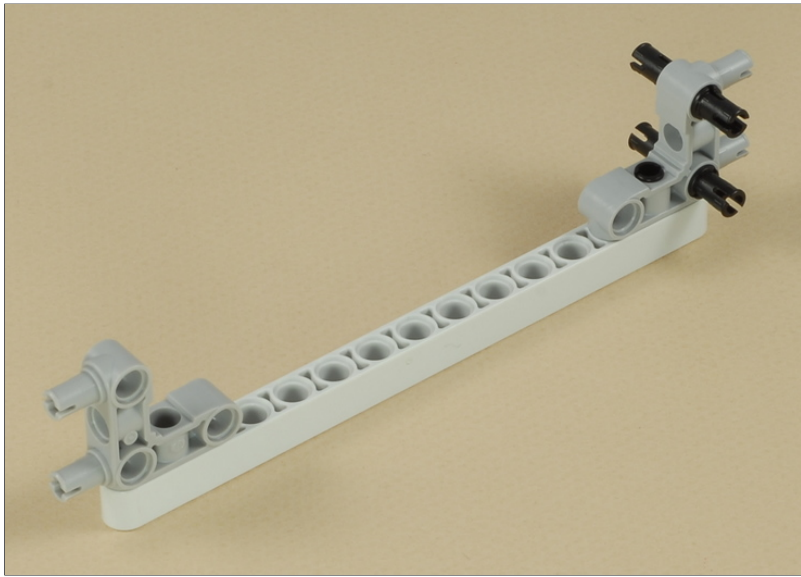
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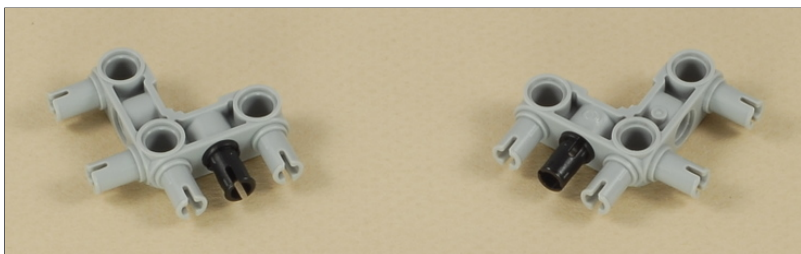
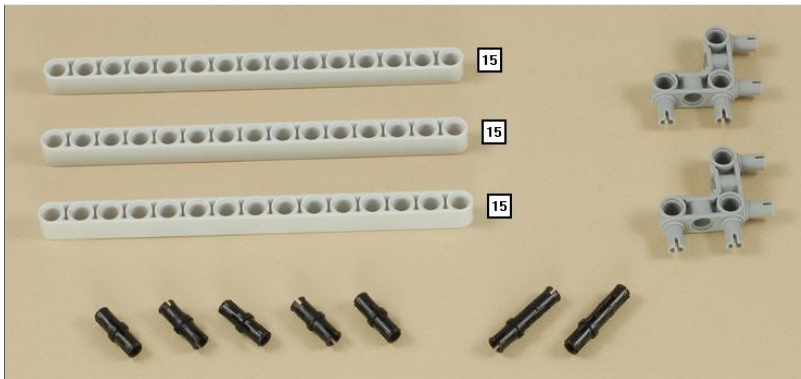


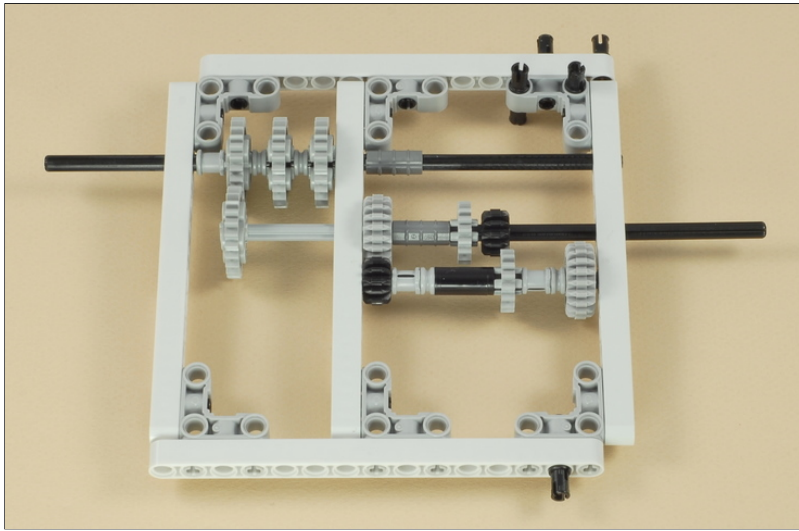
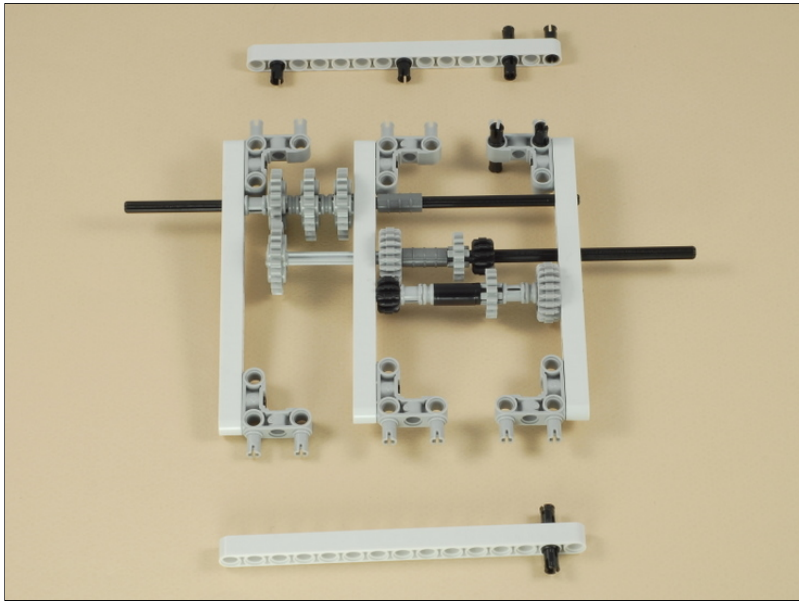
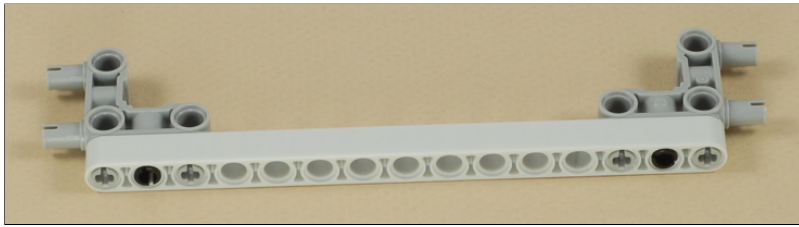
### 3





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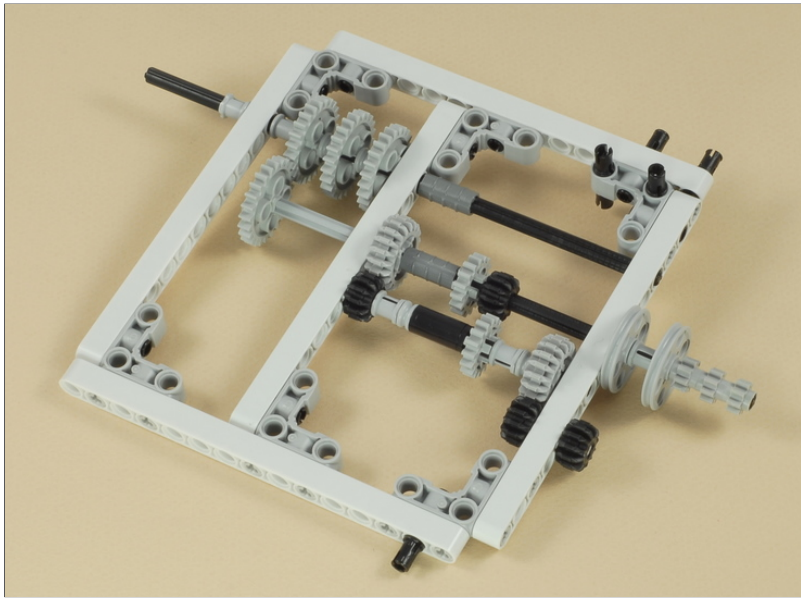




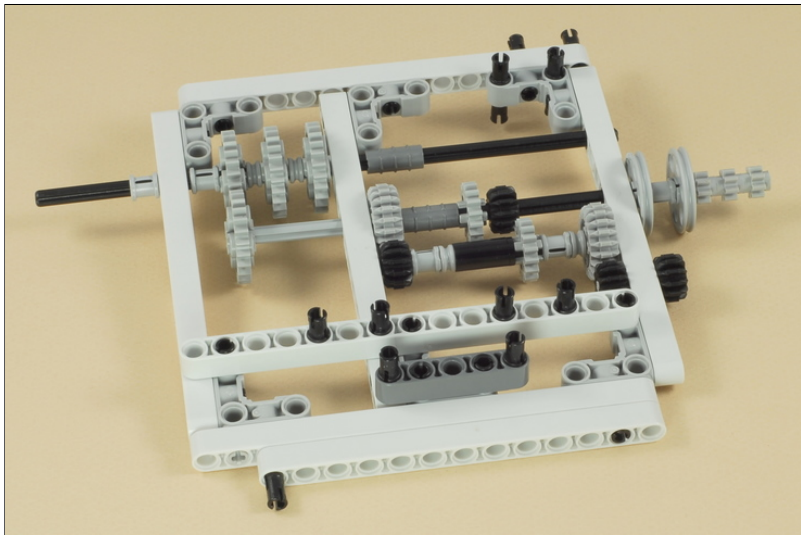
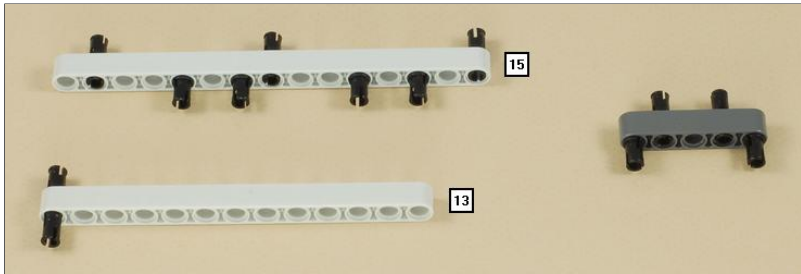
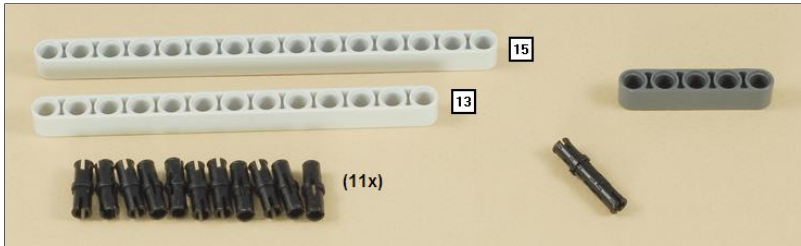
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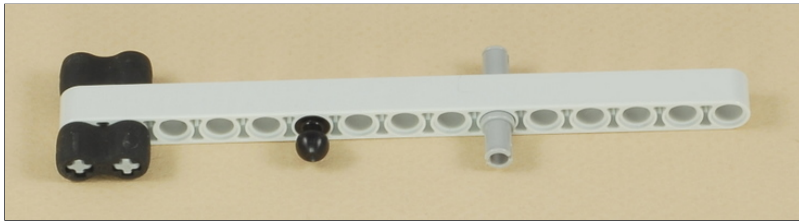
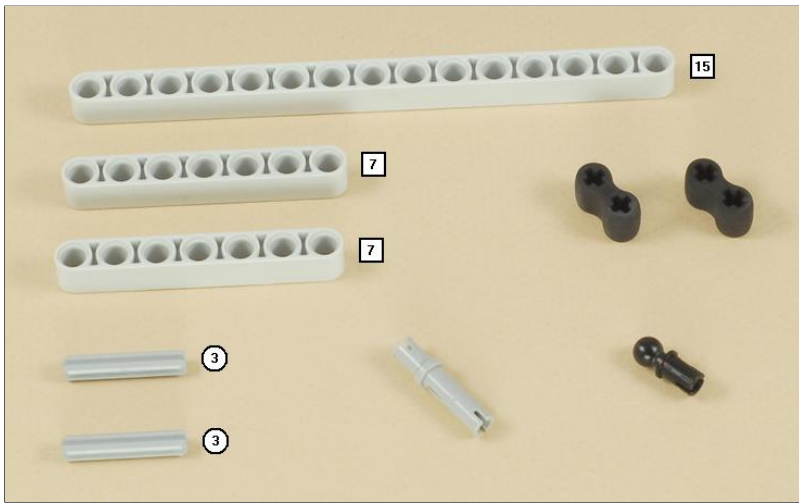
**Important:** After completing this step, check to make sure that all of the axles spin very easily. Adjust the position of the bushings, axle extenders, and other parts slightly as necessary to allow everything to spin and coast down easily.



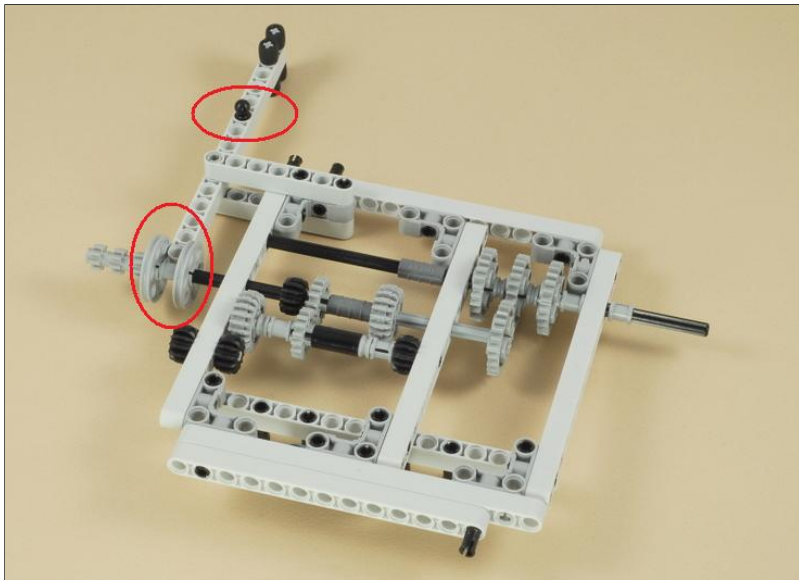
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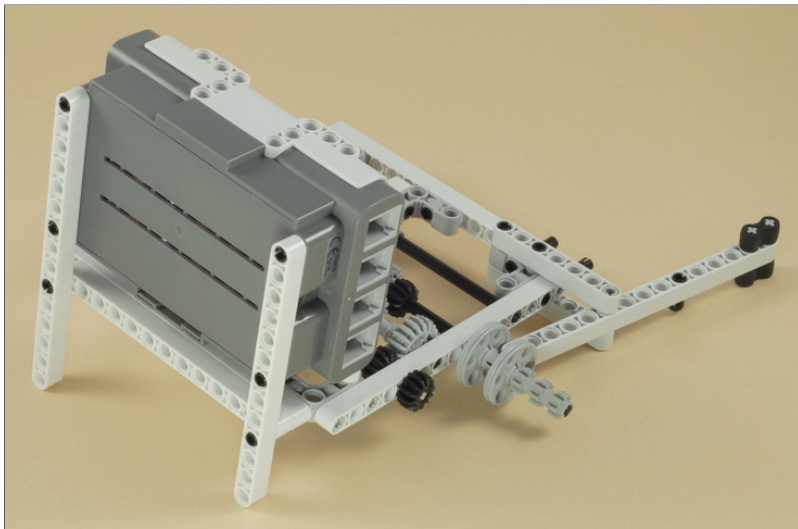
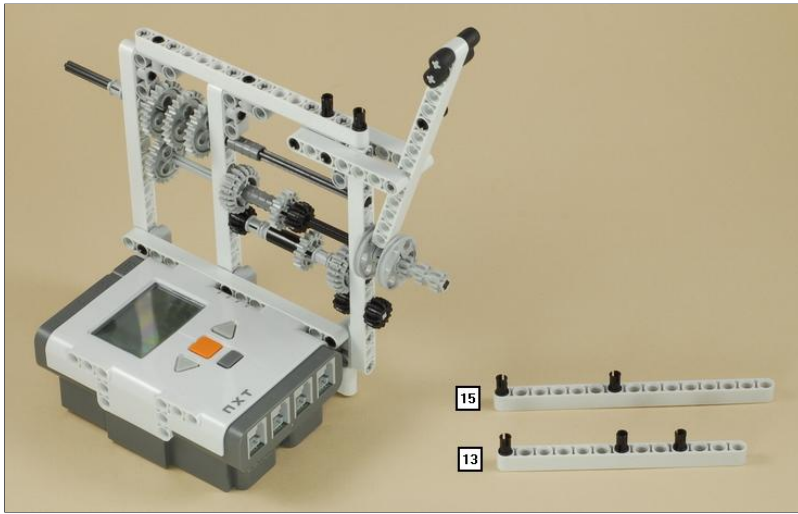


**Note:** It is normal for the gears to get stuck when trying to shift with the shift lever when the gears are not turning. See the next step for testing and adjusting the gears.

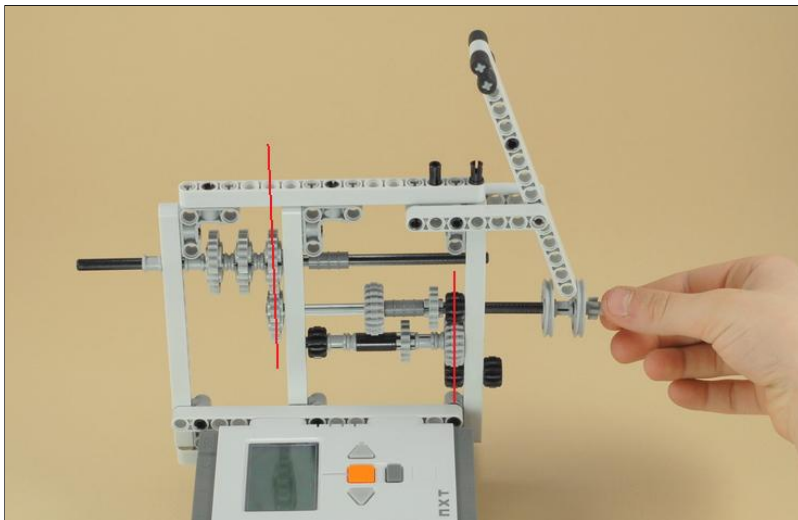


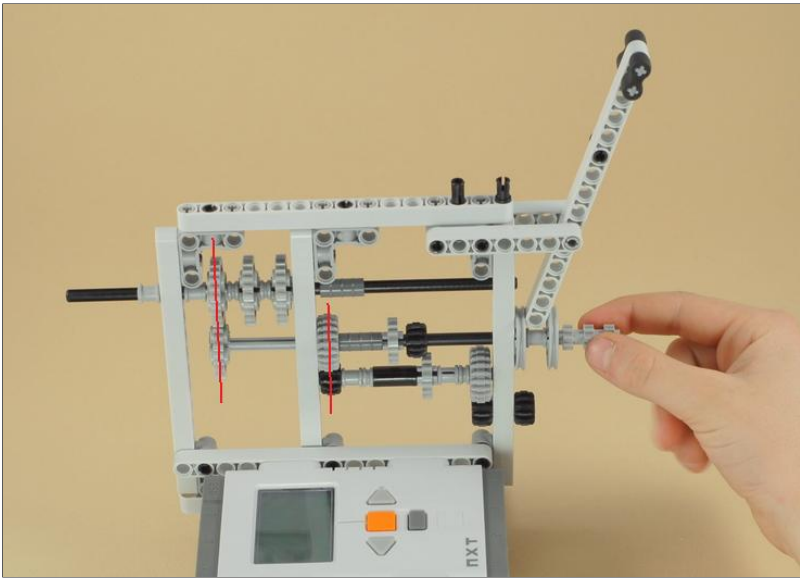
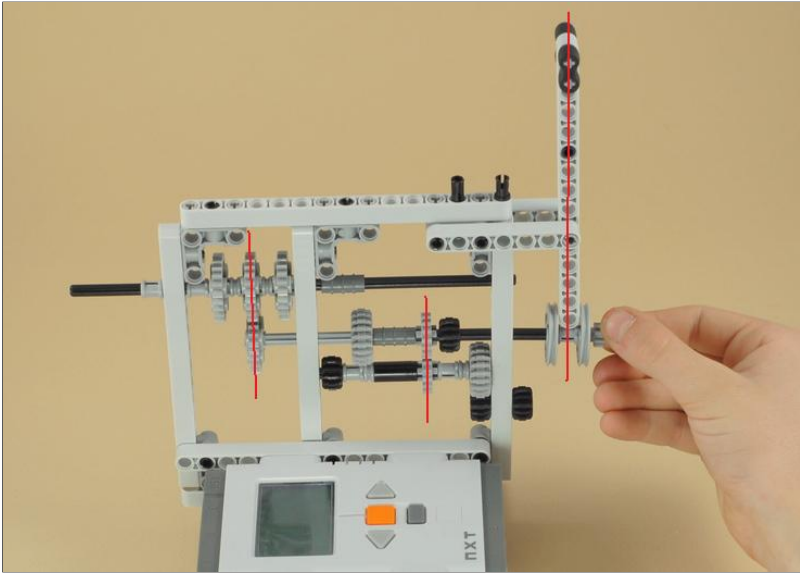
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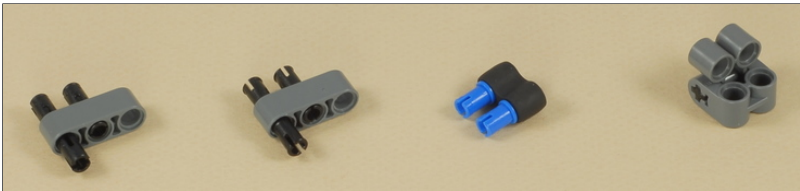


**Important:** Now check to make sure that all of the gears are aligned properly as shown in the three pictures below. It is normal for the gears to get stuck when trying to shift with the shift lever when the gears are not turning, so grab the middle shaft as shown and twist back and forth slightly as you push in and out to find the three gear positions.





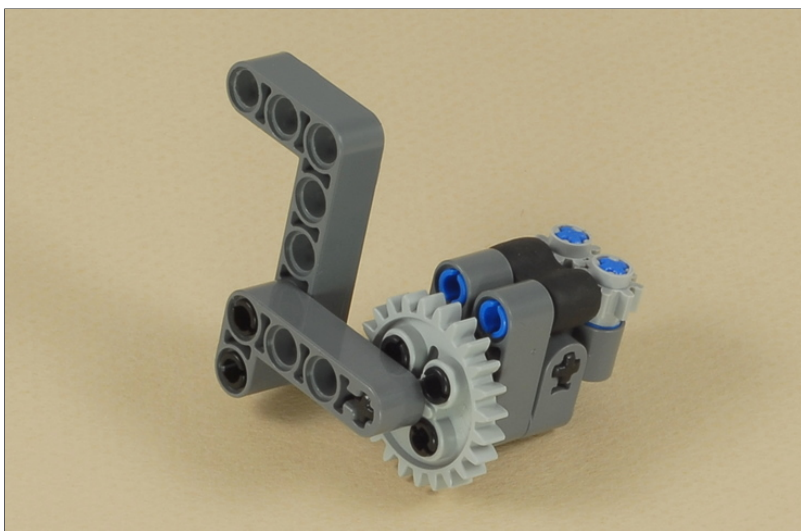
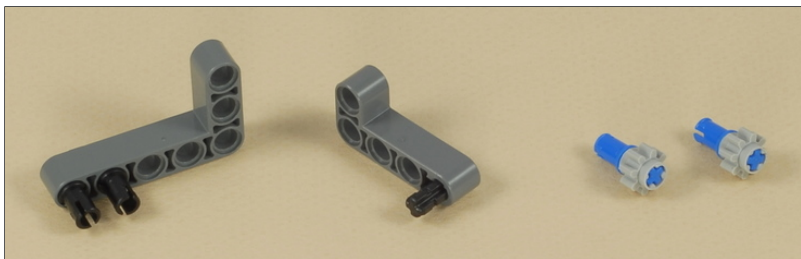
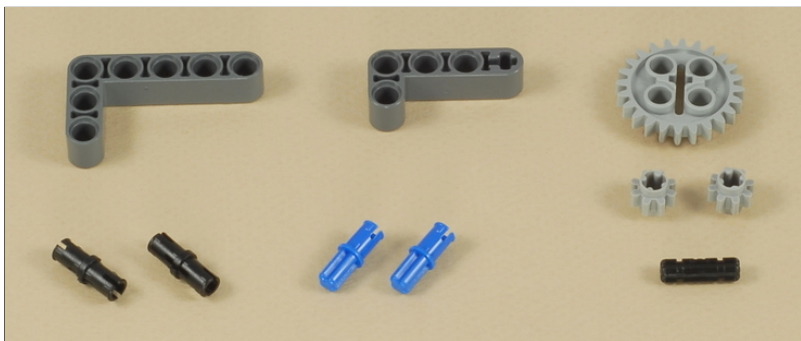
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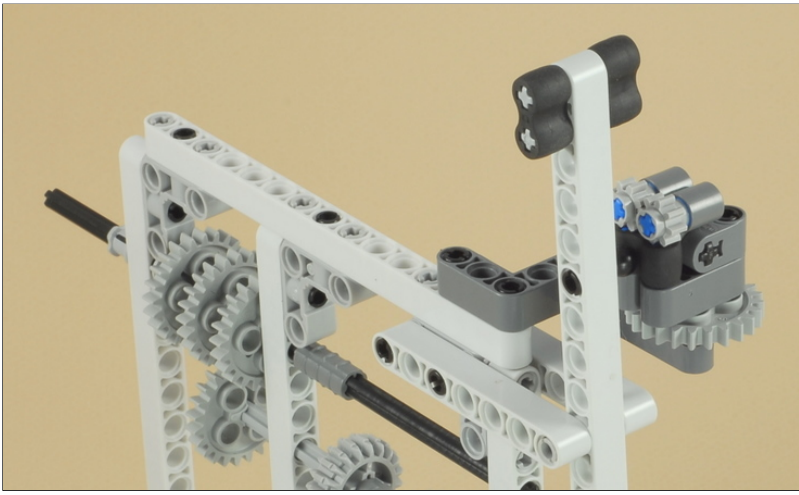




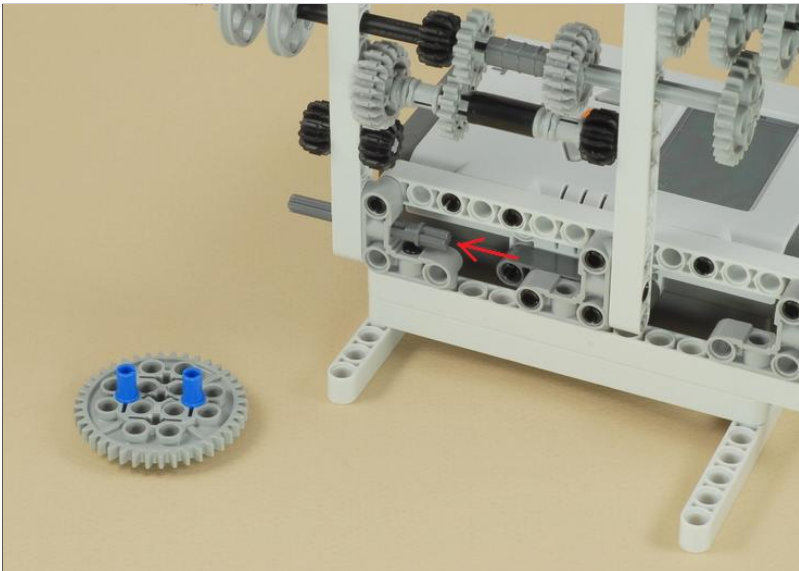


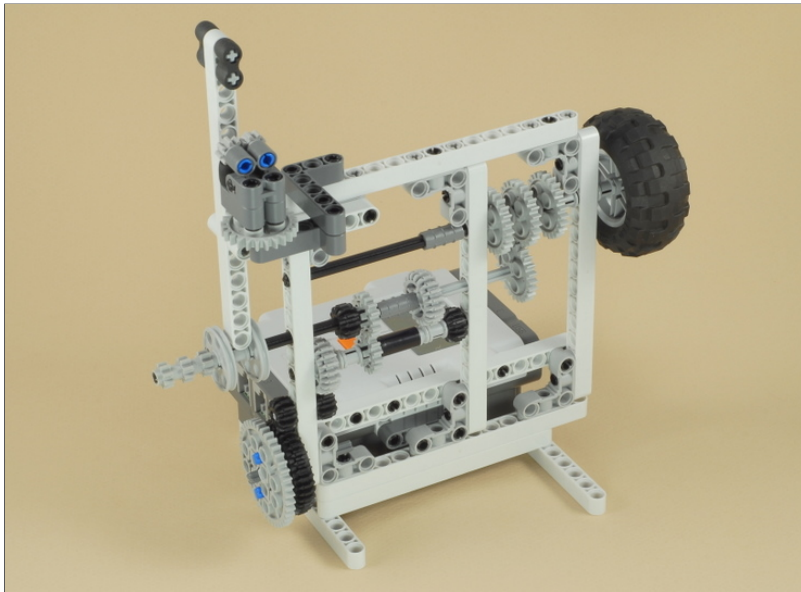
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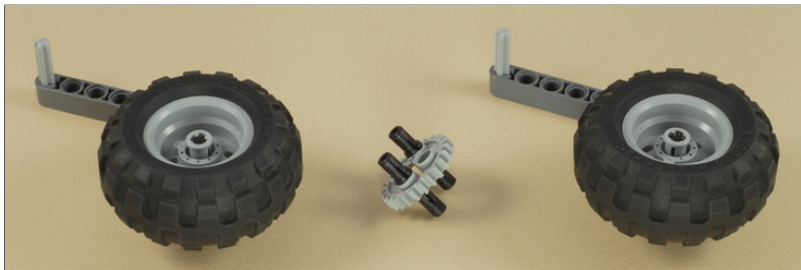
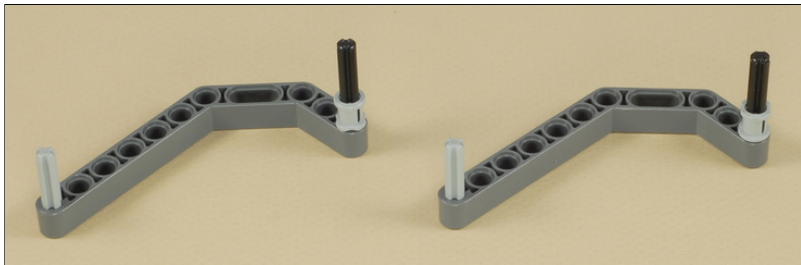


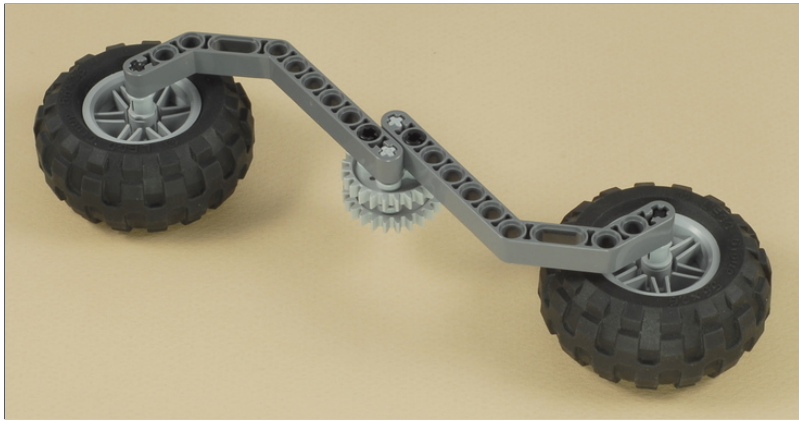
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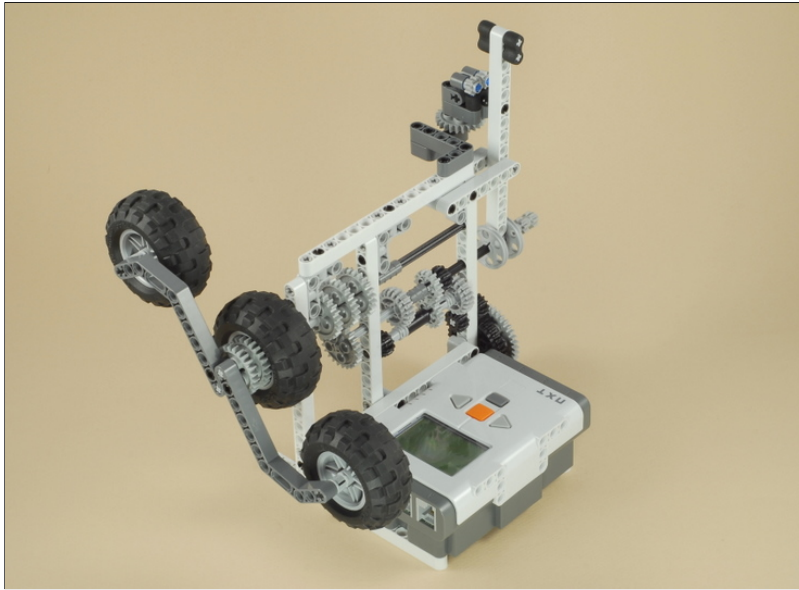


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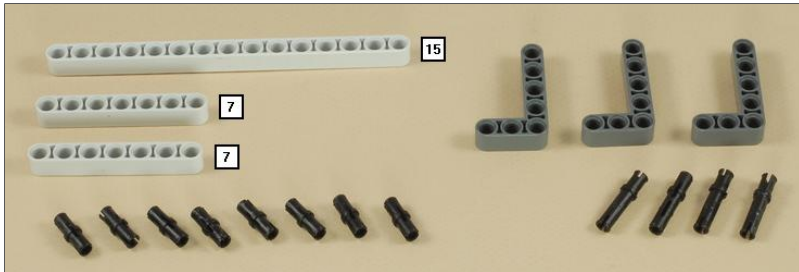


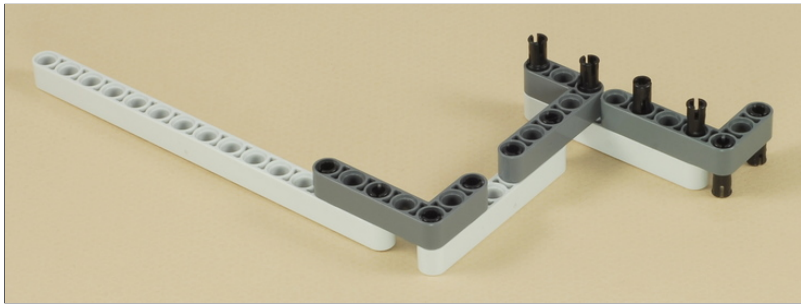
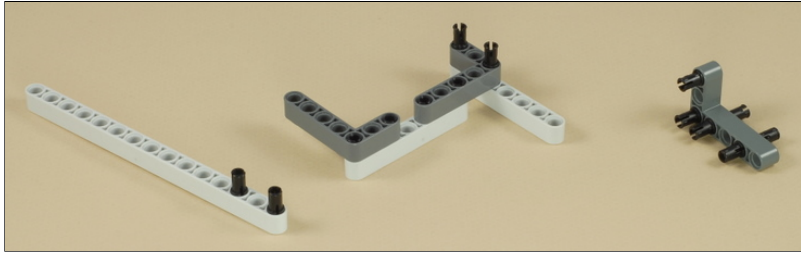
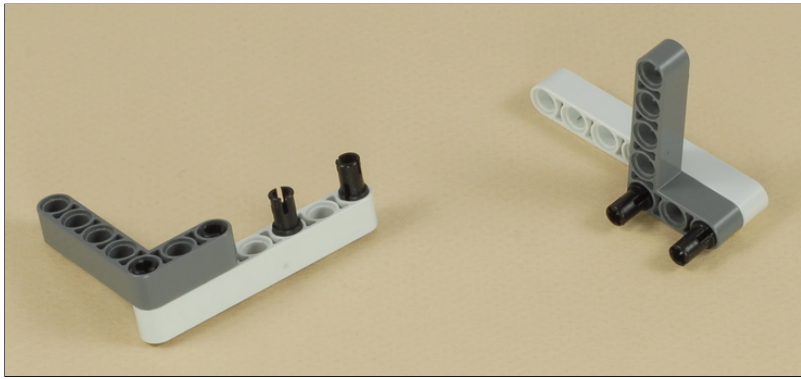


**Note:** After completing this step, you should check again to make sure that all of the parts spin easily. You should be able to spin the set of three tires, and they should coast easily by themselves in all three different gear positions. You should also now be able to shift gears using the shift lever if the tires are turning.

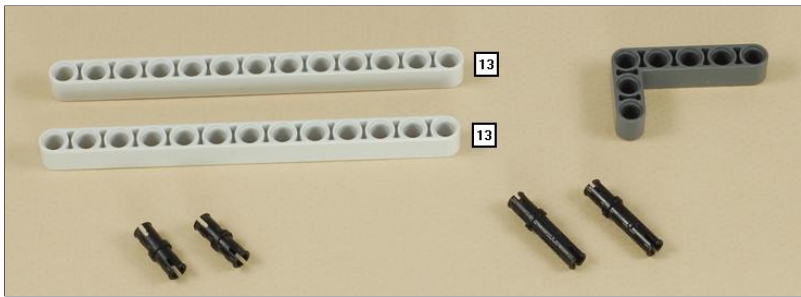


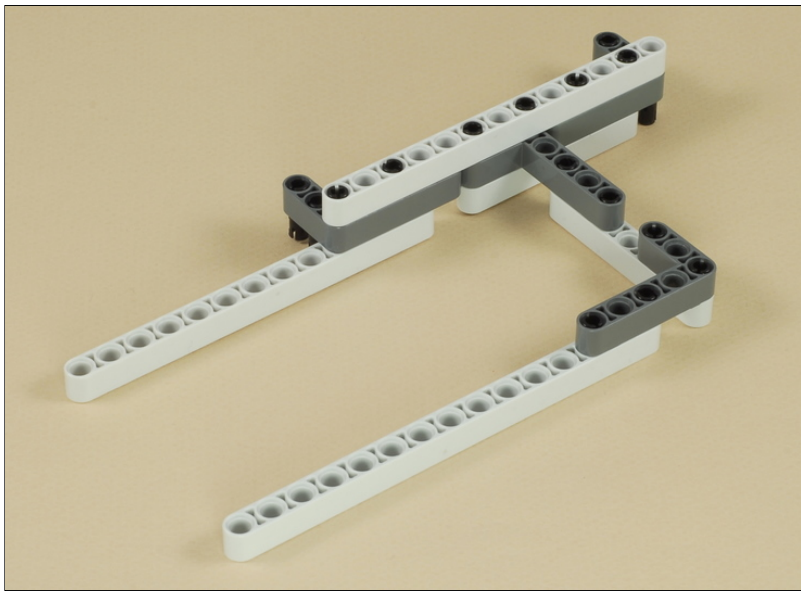
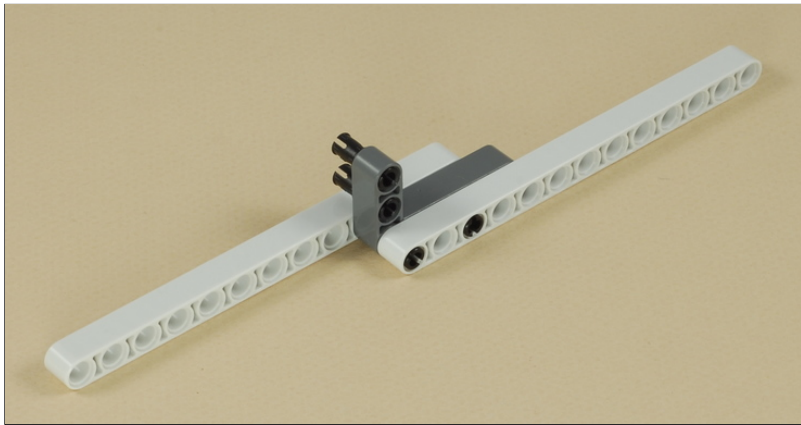
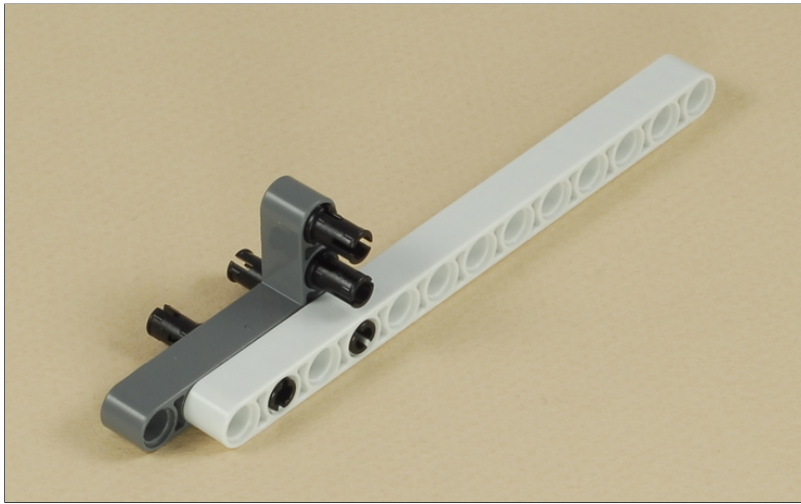
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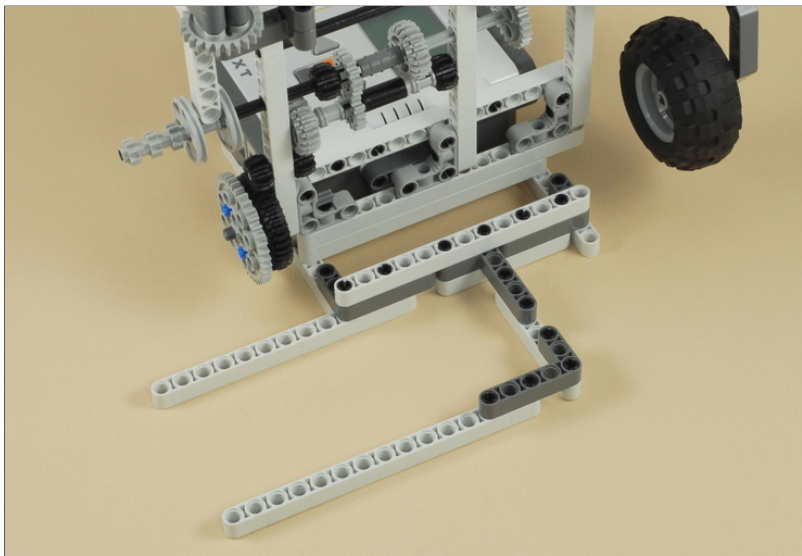




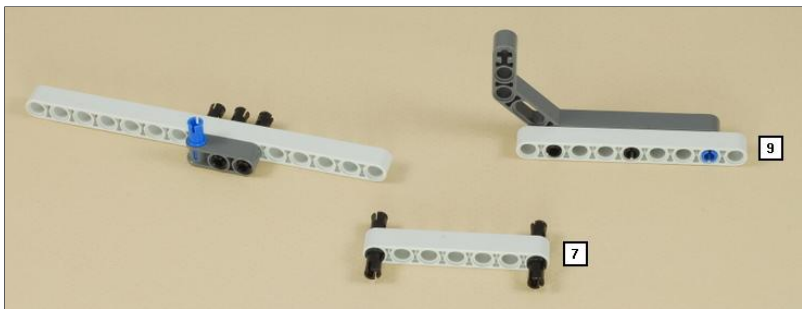
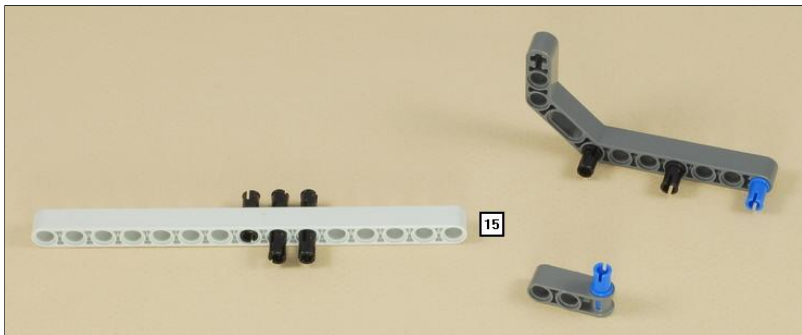
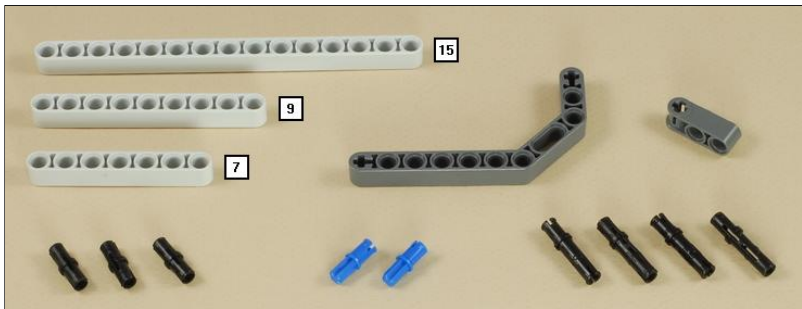
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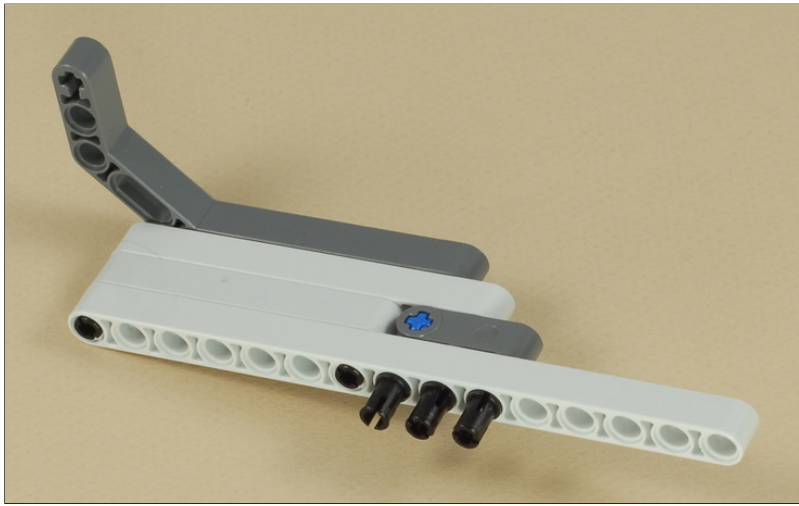




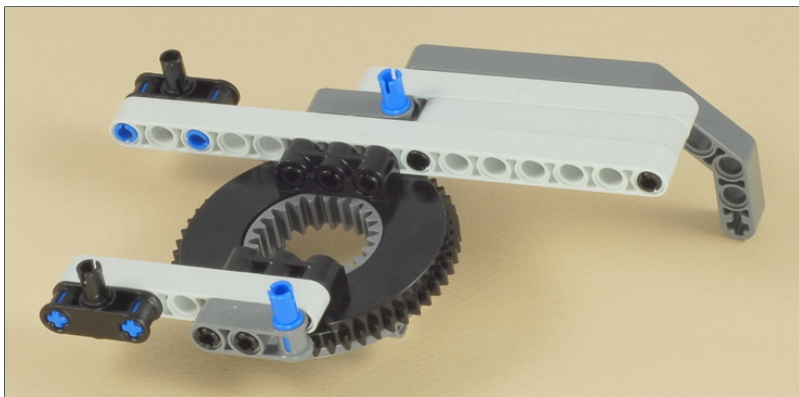
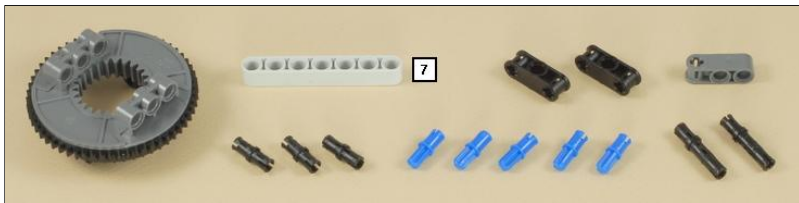


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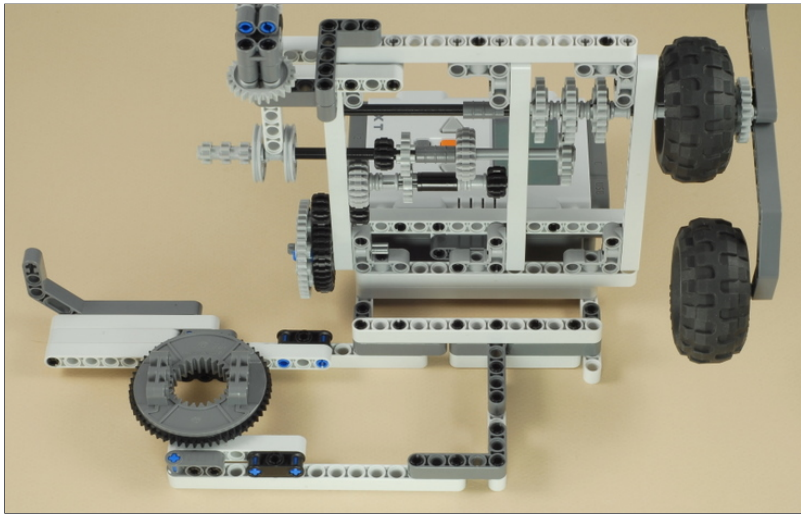




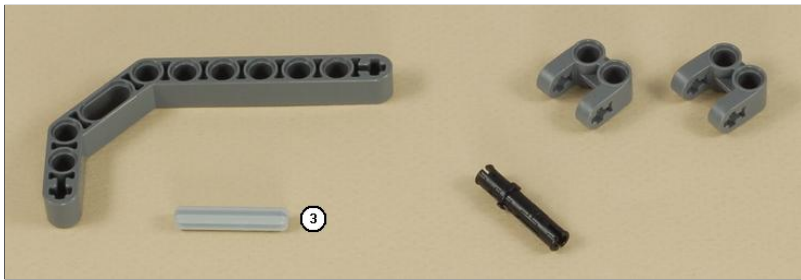
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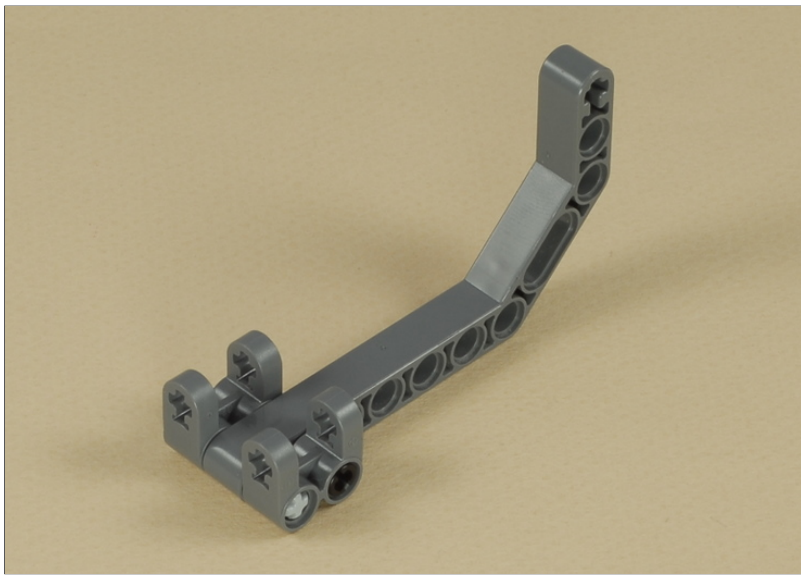




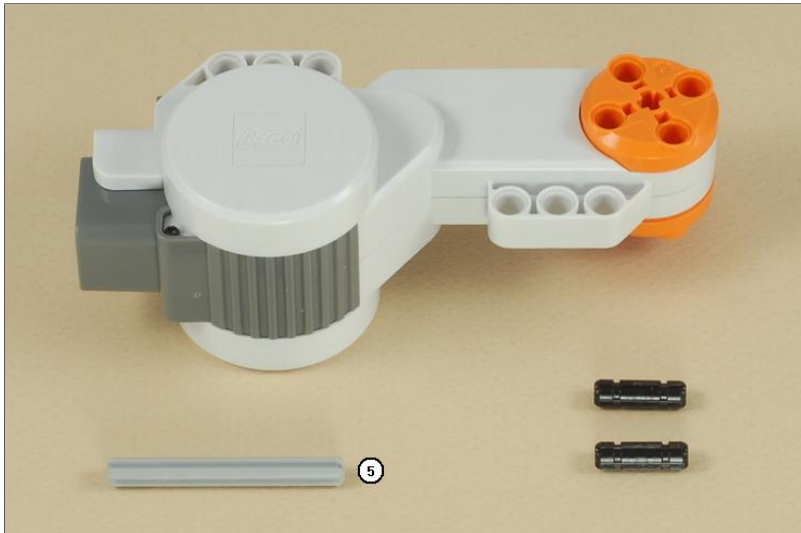


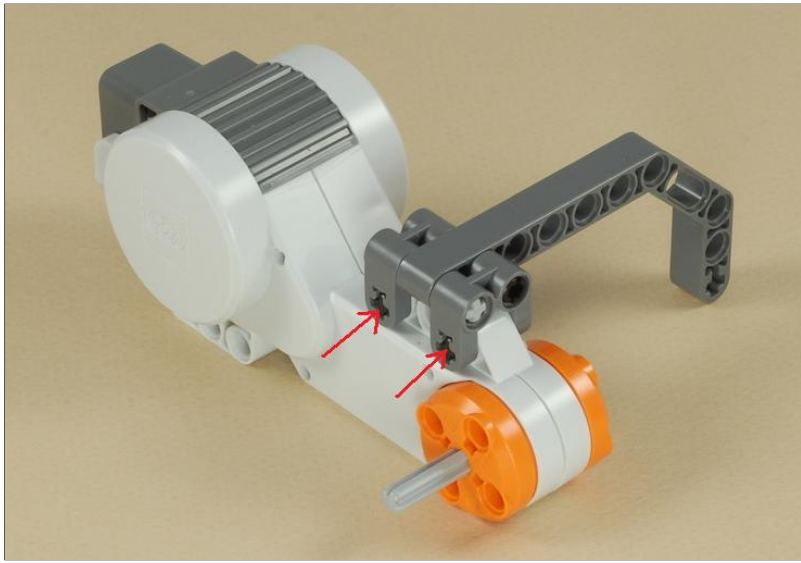
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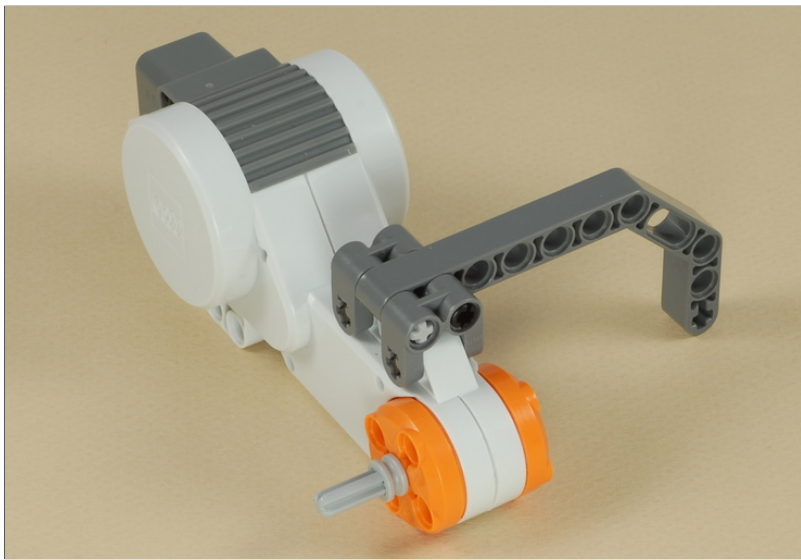


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