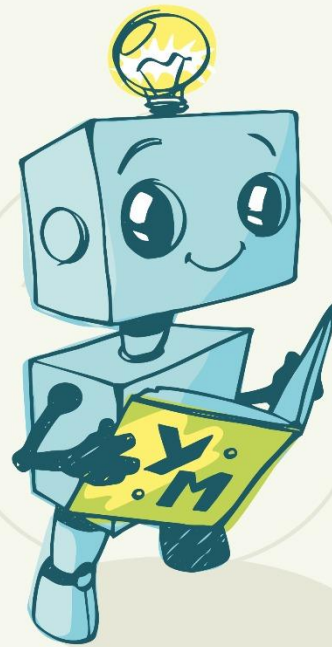


# EV3



**УМНАЯ  
МЕХАНИКА**

ОБРАЗОВАТЕЛЬНАЯ  
РОБОТЕХНИКА

# Правила

1. **Соблюдаем тишину,**  
когда преподаватель  
говорит!
2. **Непонятно – спроси!**
3. **Наборы не смешивать,**  
все складывать на  
место!

**История**

# Пусковая установка

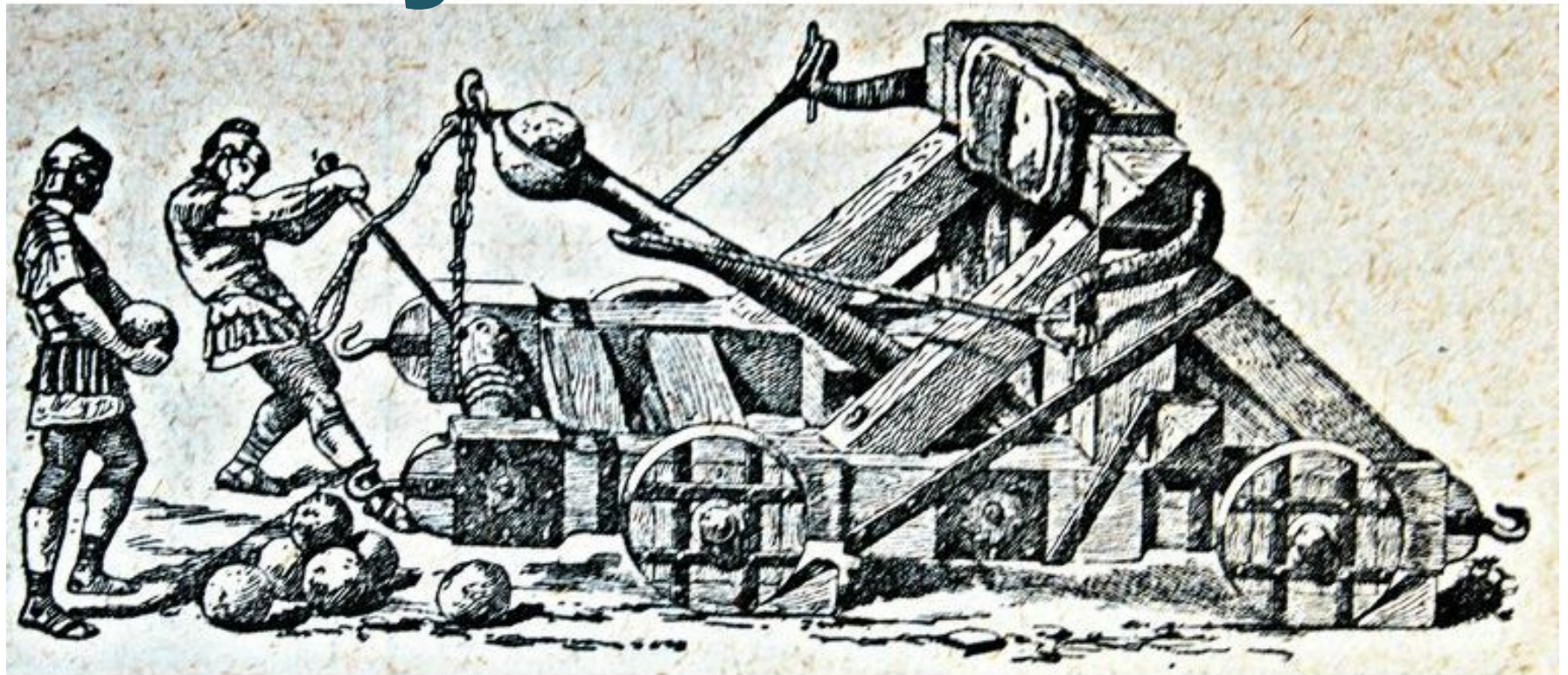


# Пусковая установка





# Пусковая установка





# Пусковая установка





# Пусковая установка





# Пусковая установка



# Пусковая установка





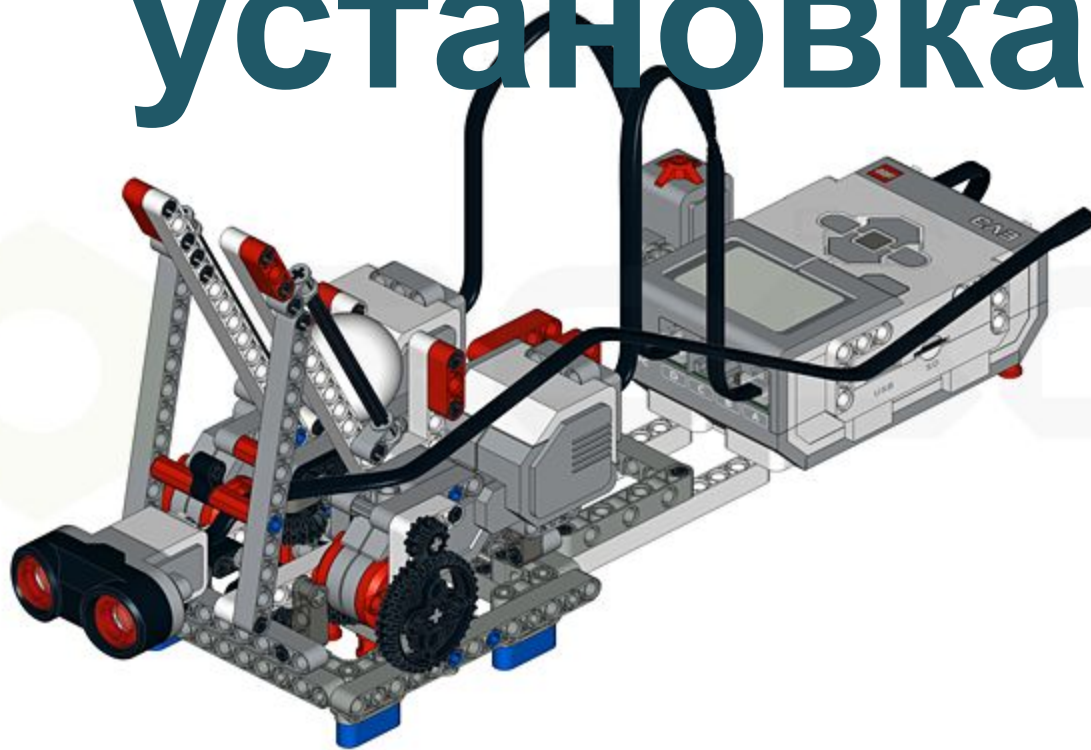
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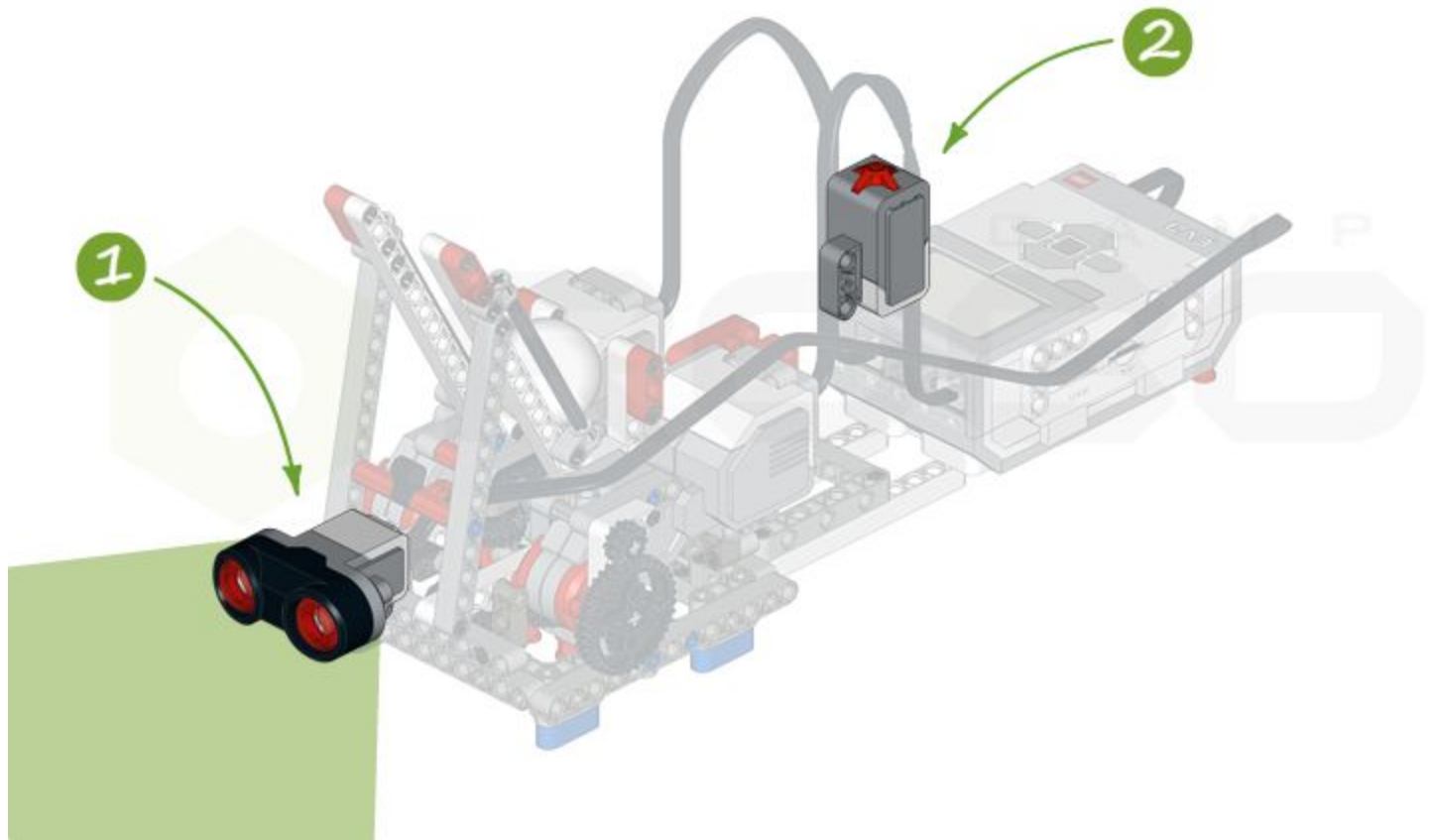




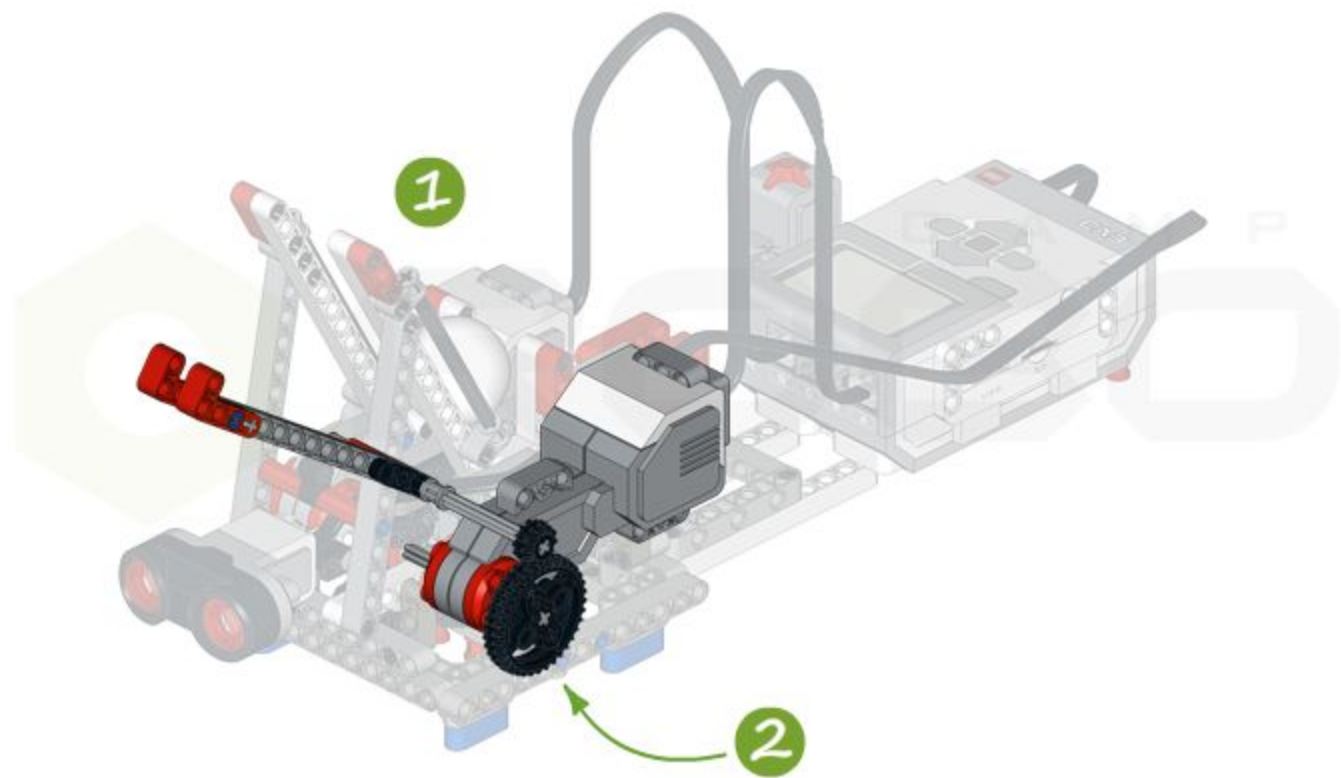
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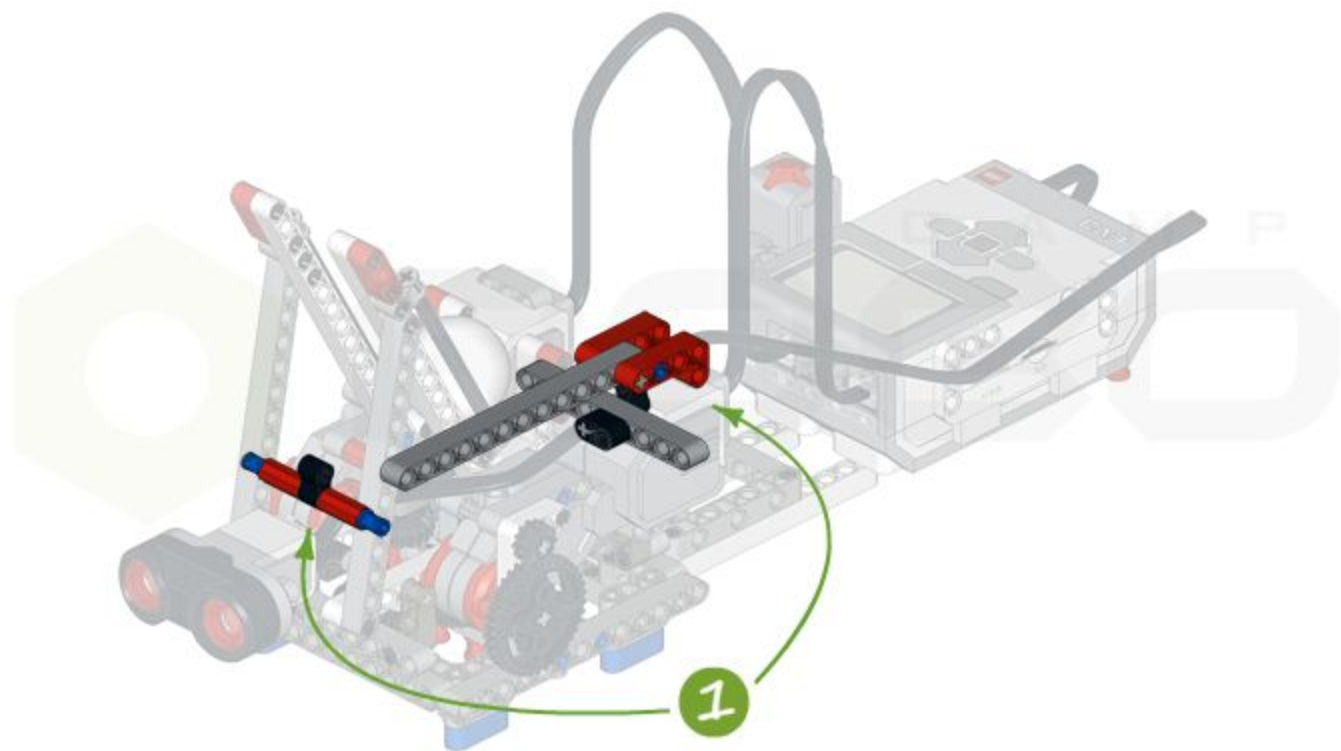
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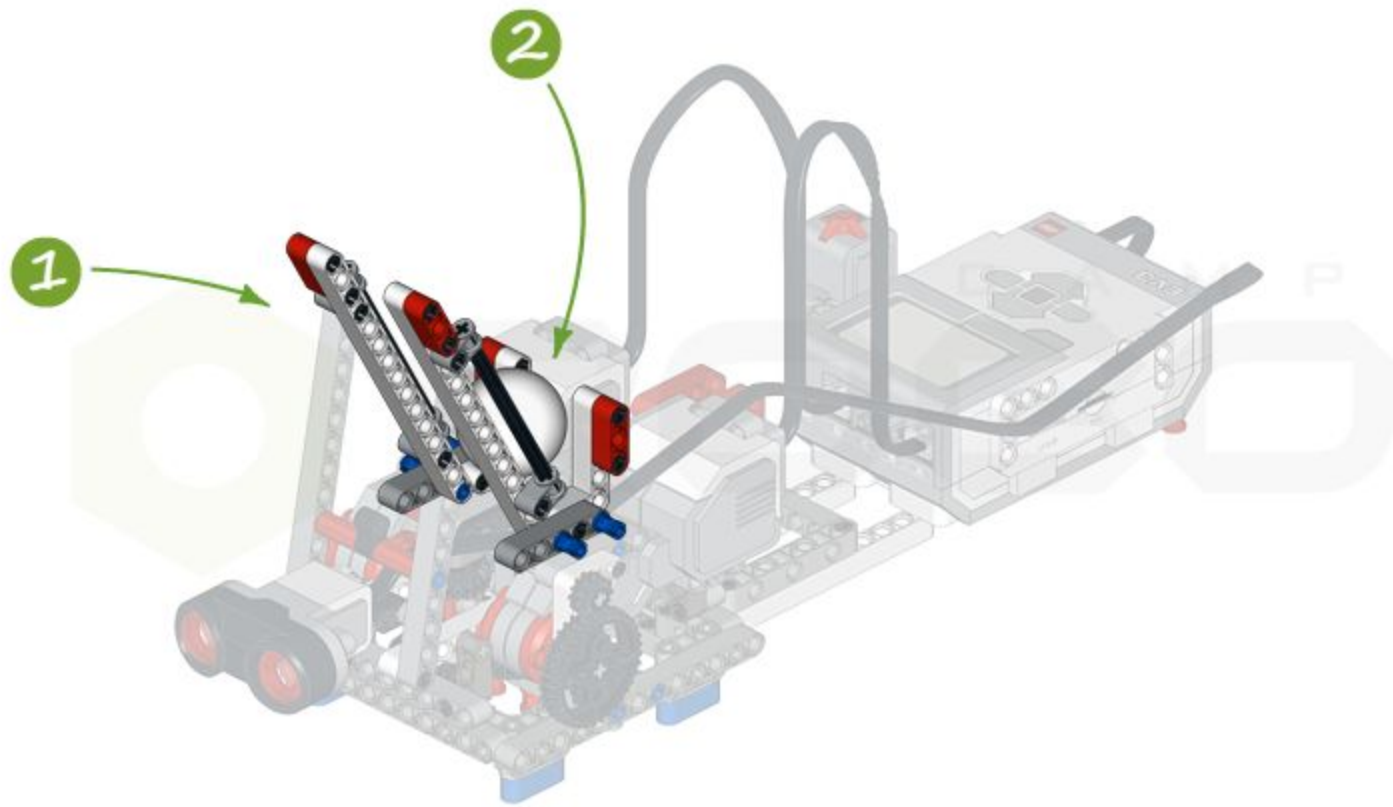




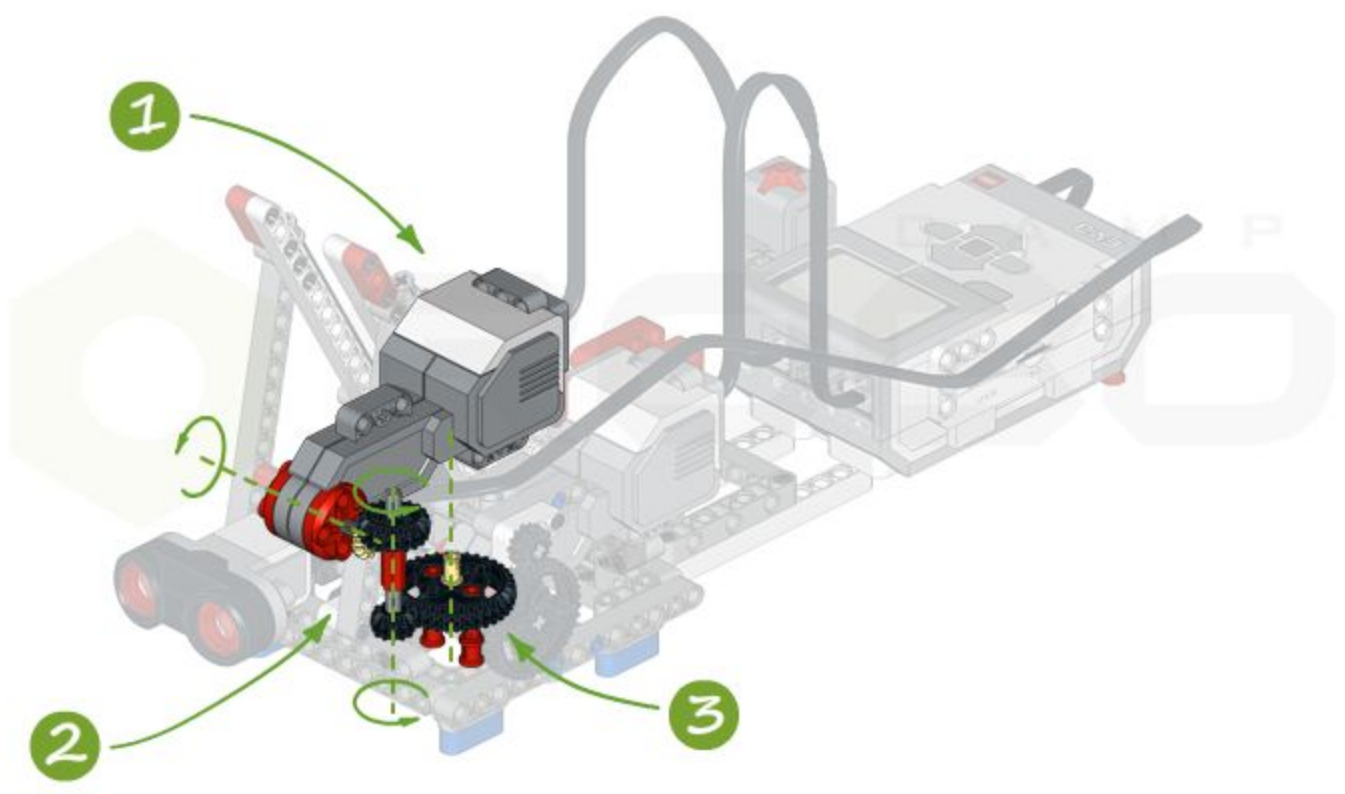


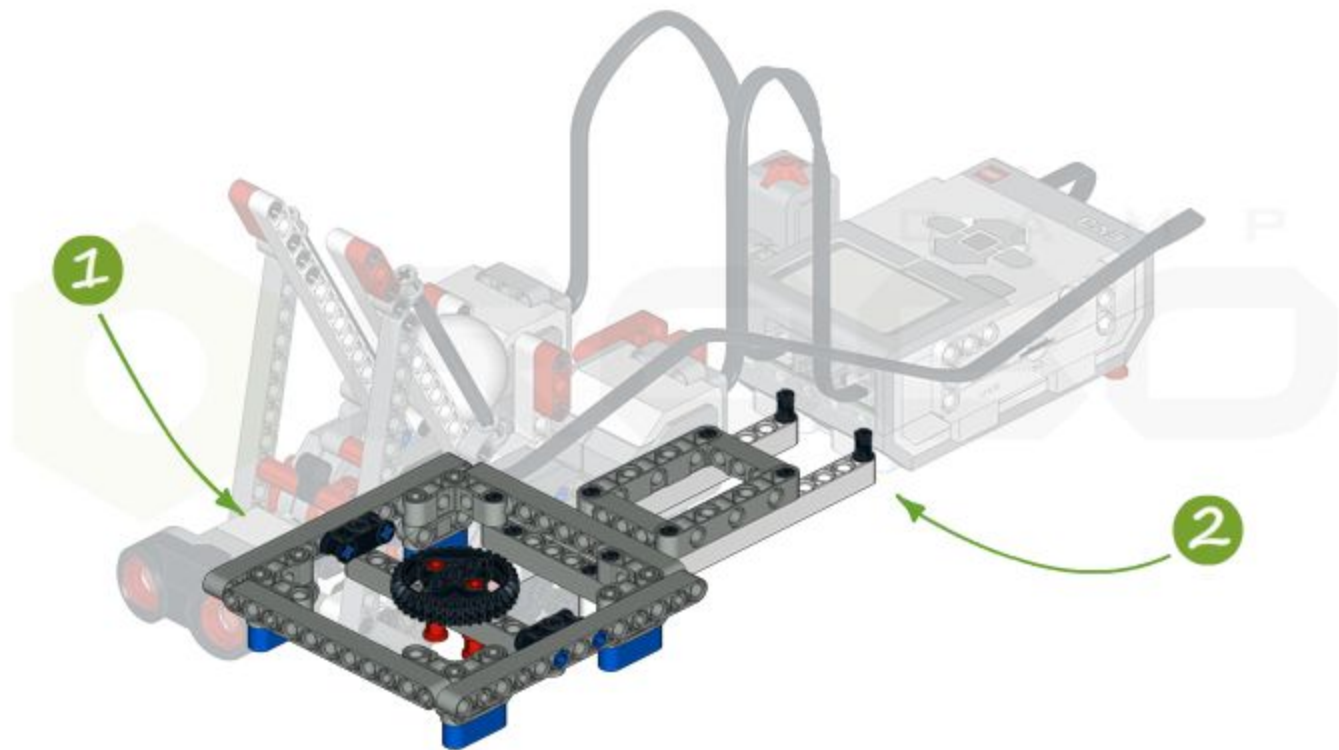


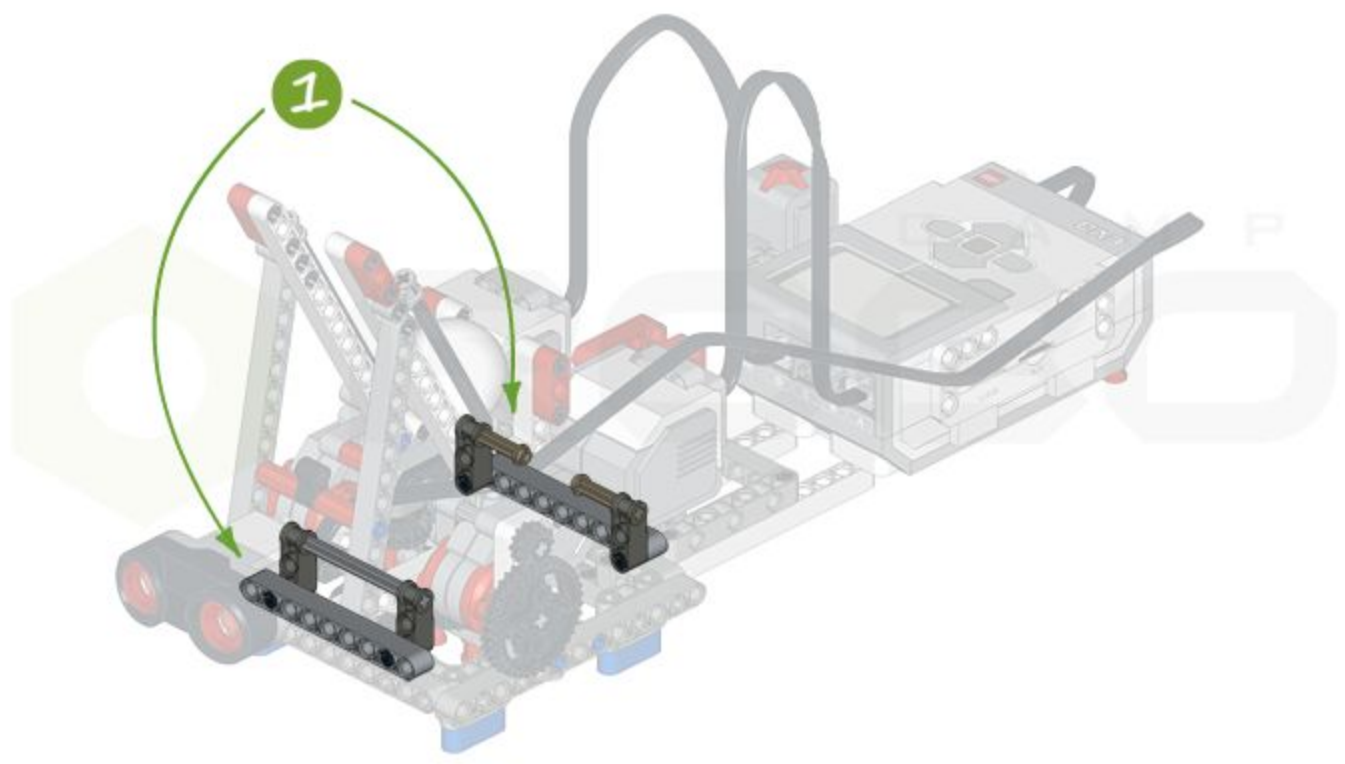




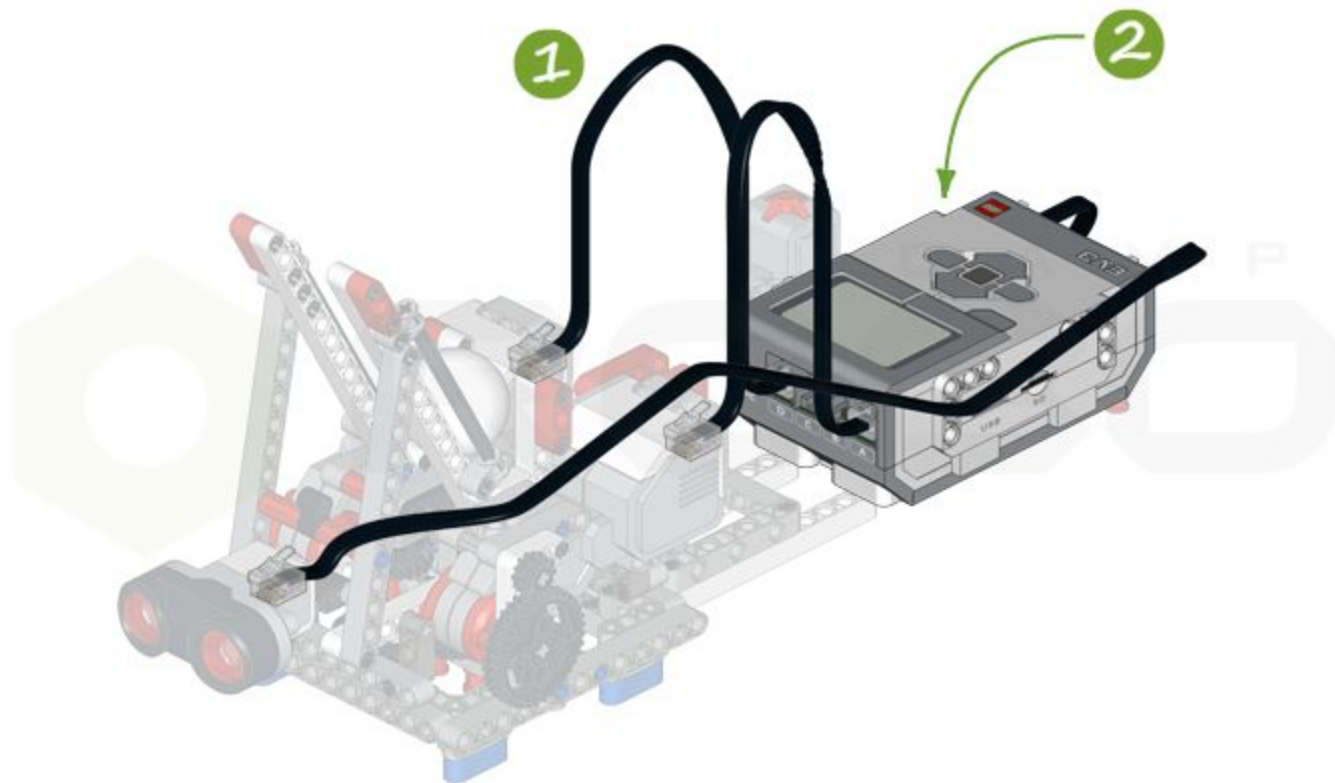




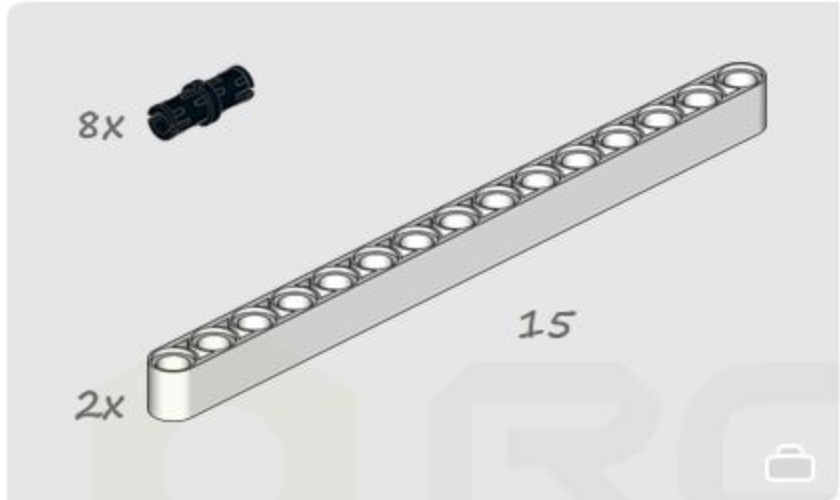




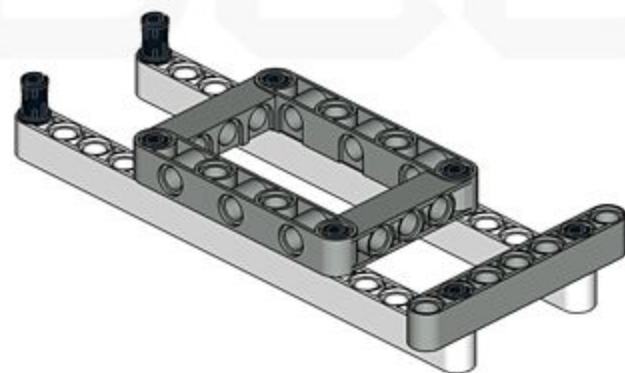
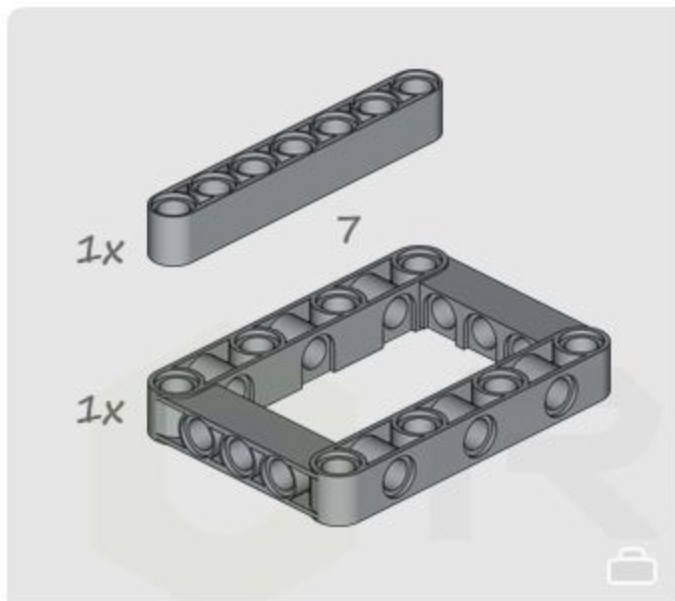




# Сборка модели

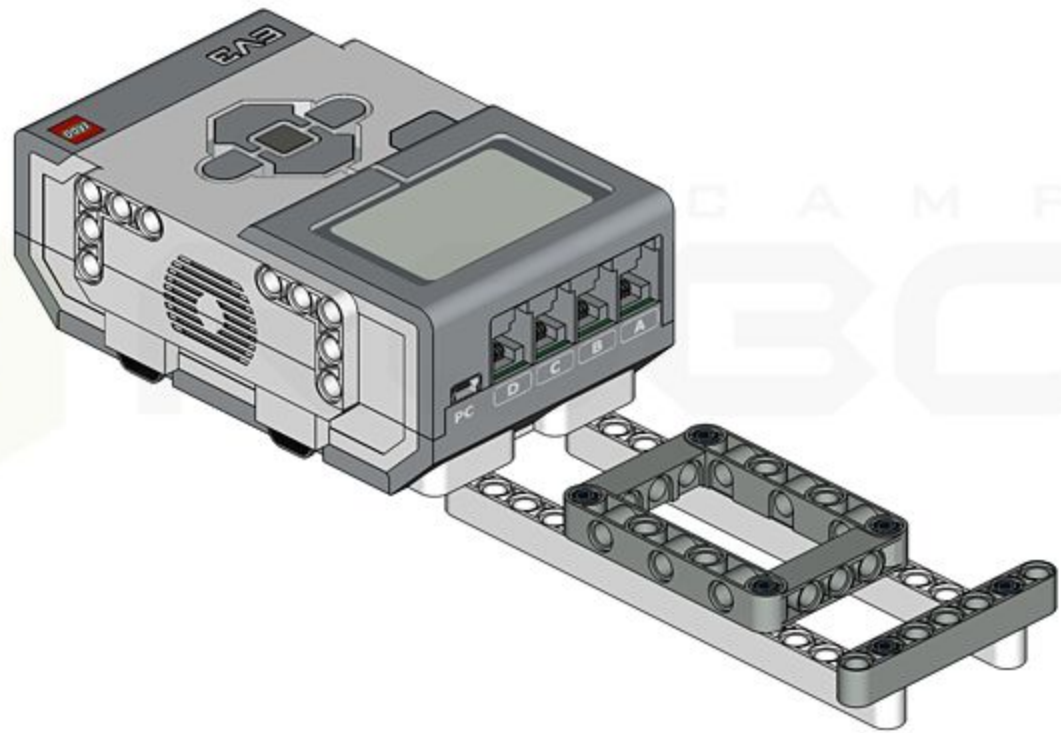


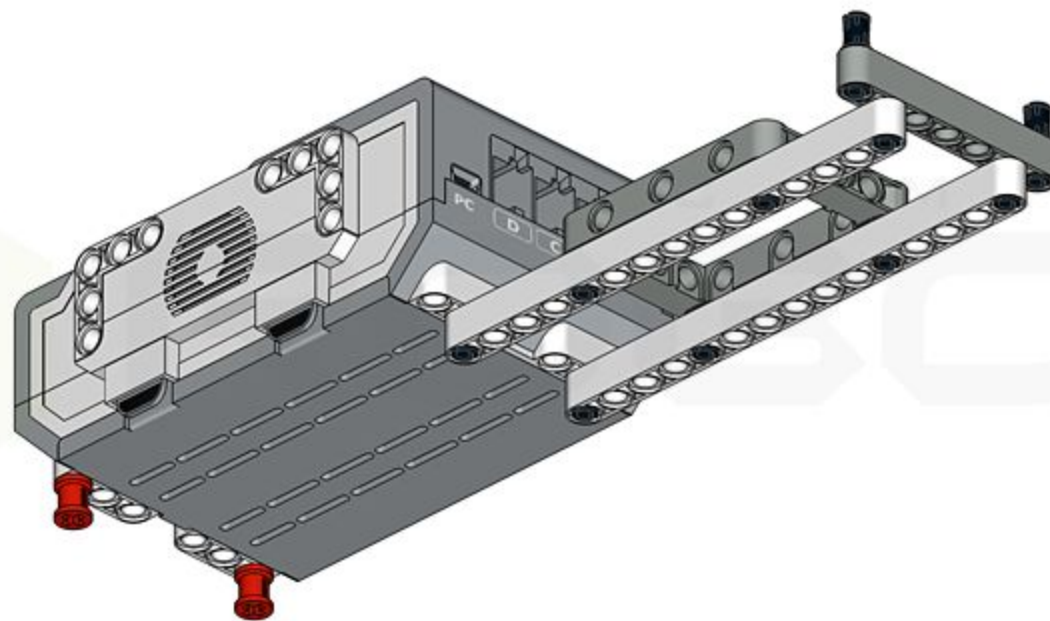




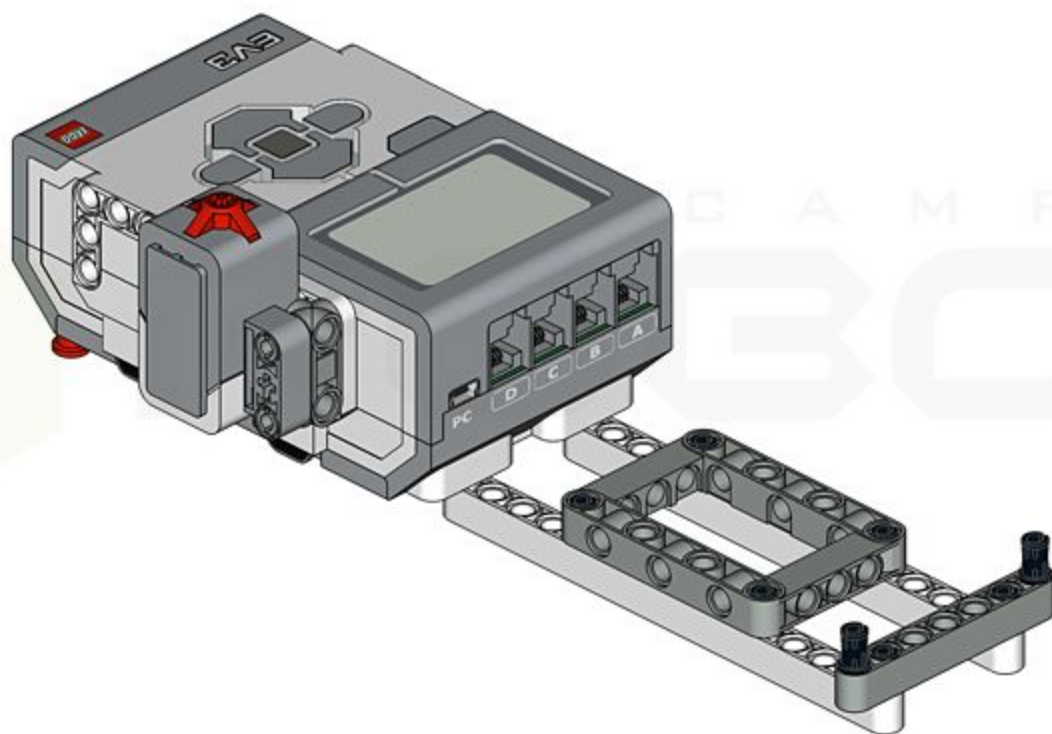
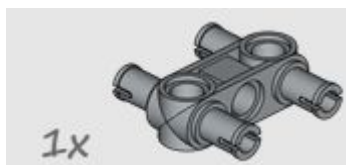
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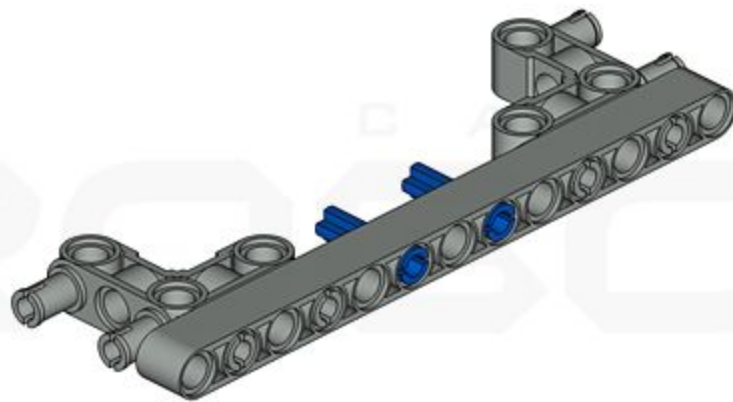
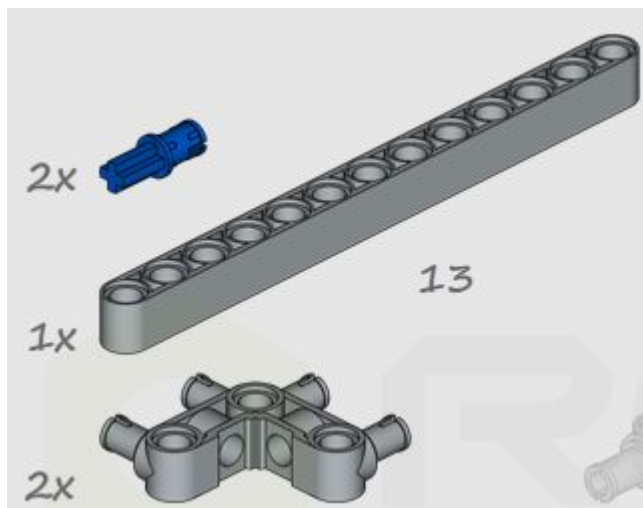
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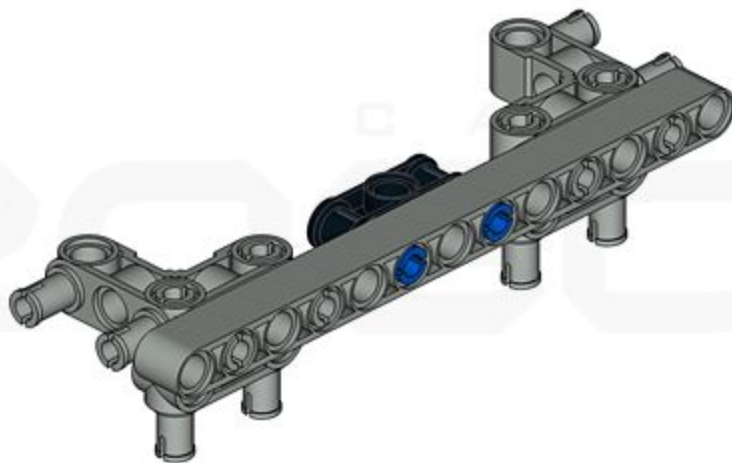


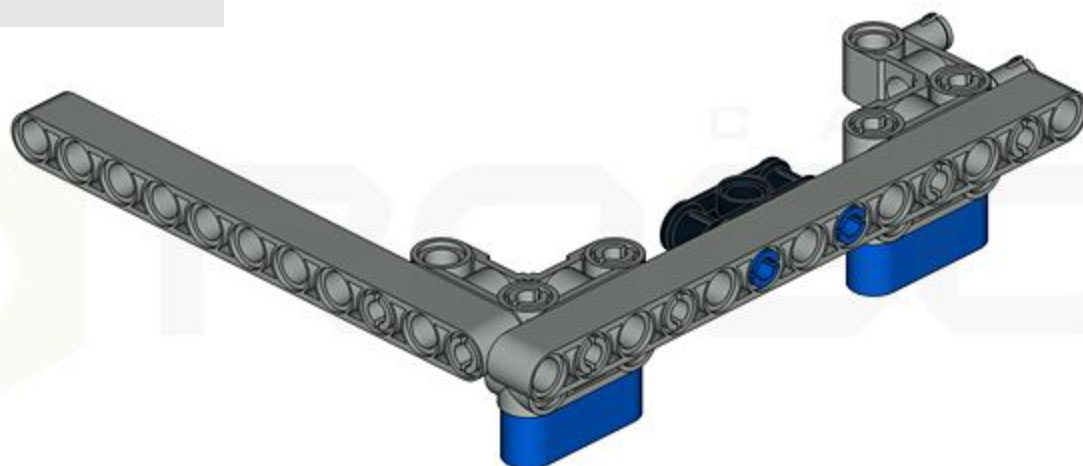
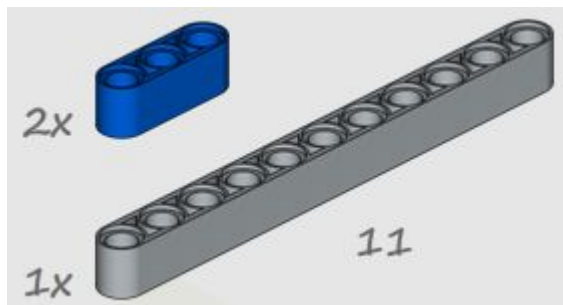




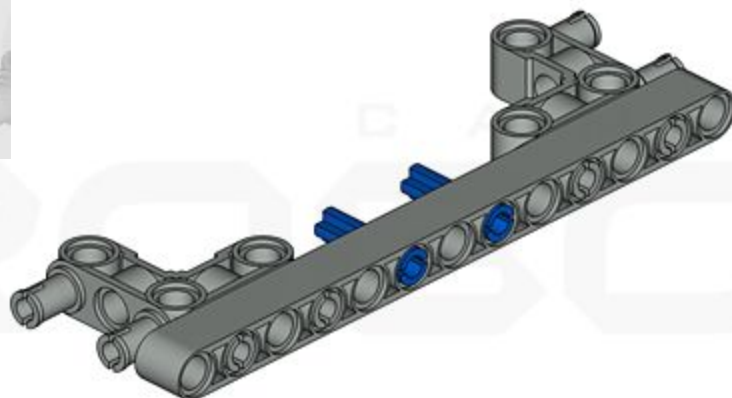
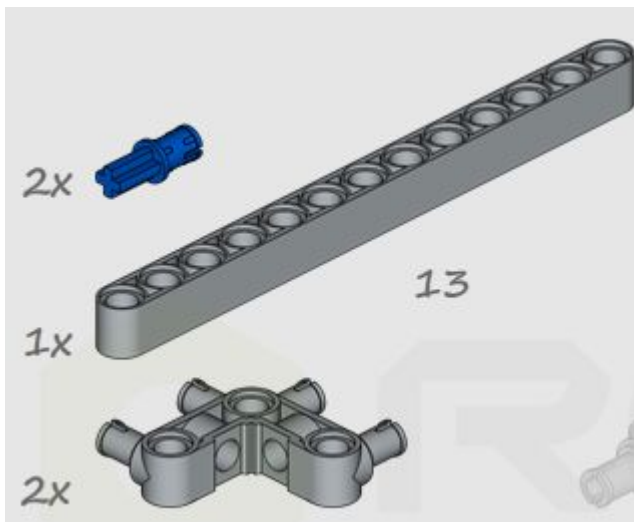


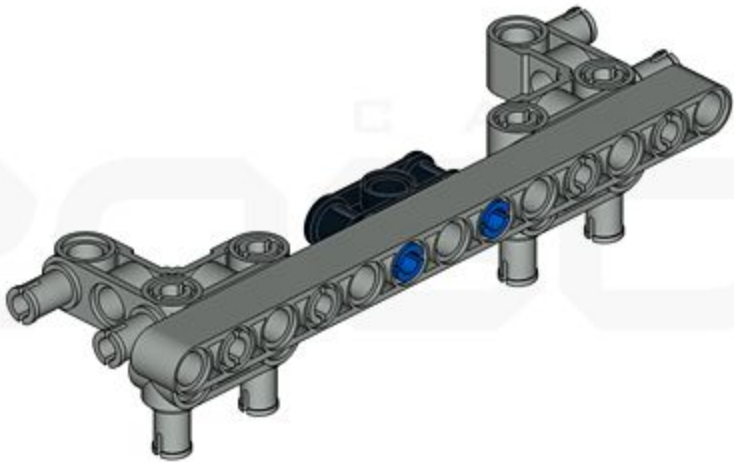


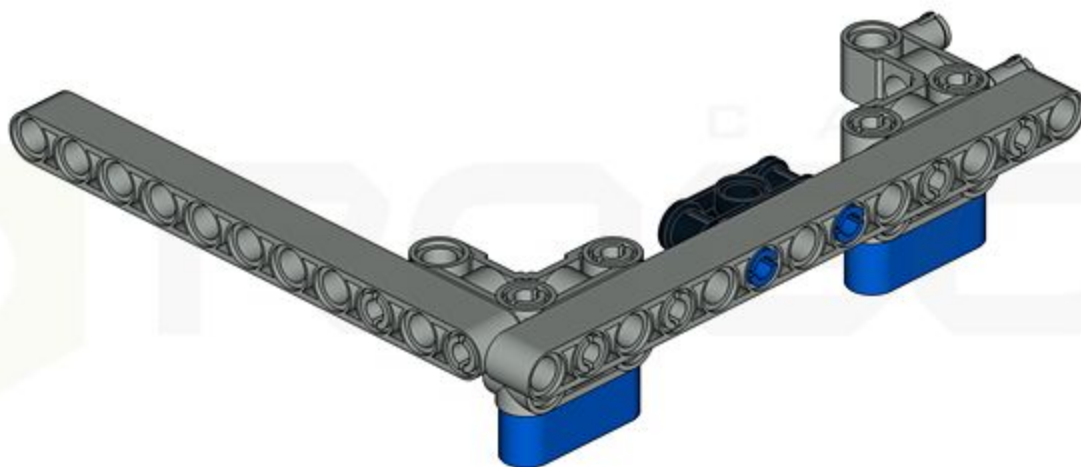
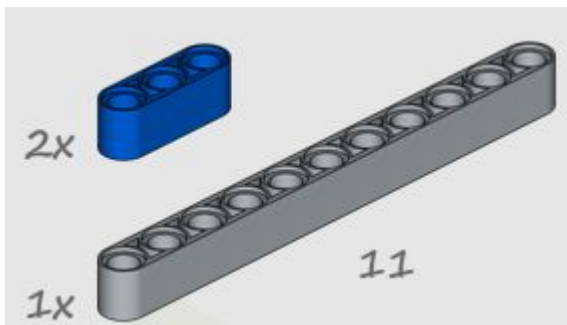


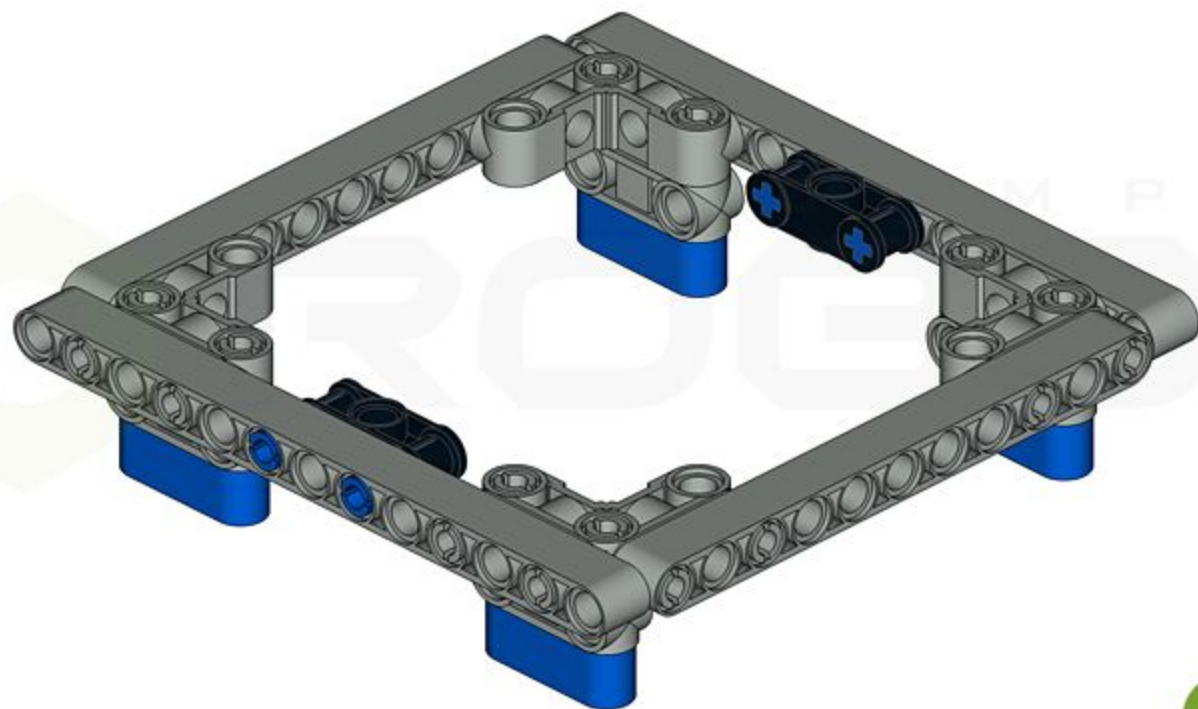




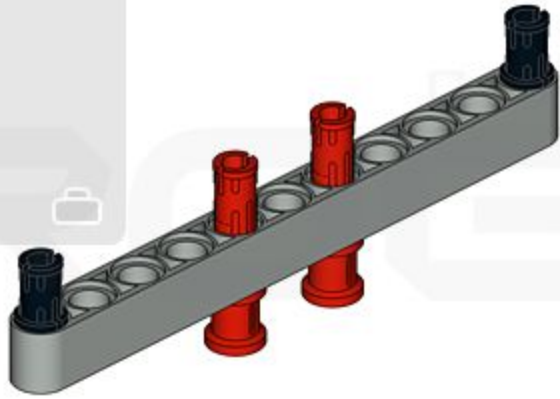
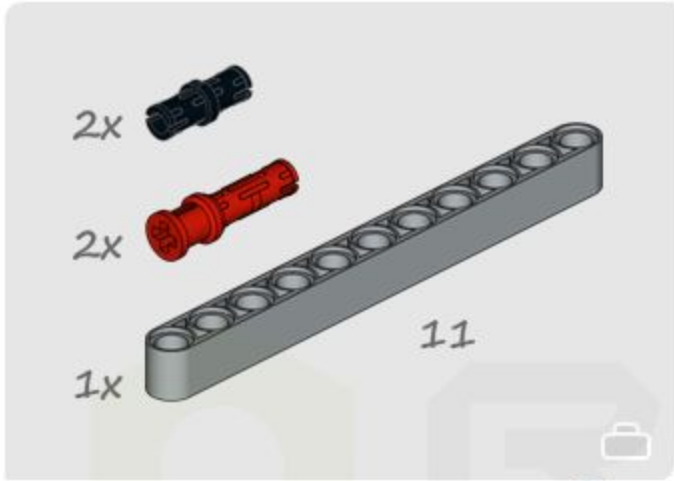


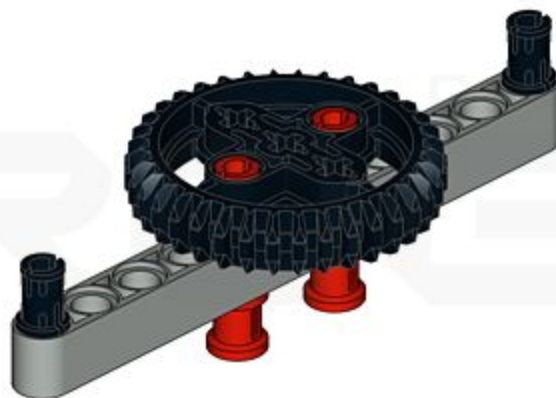
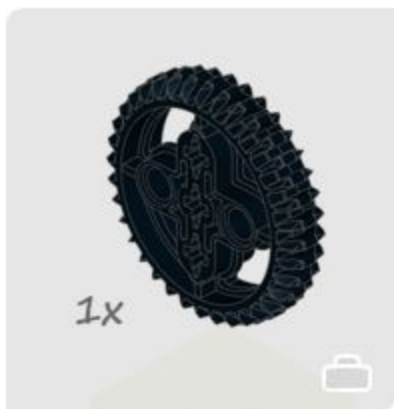


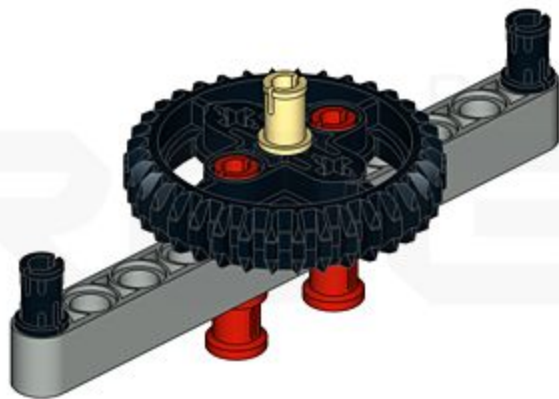


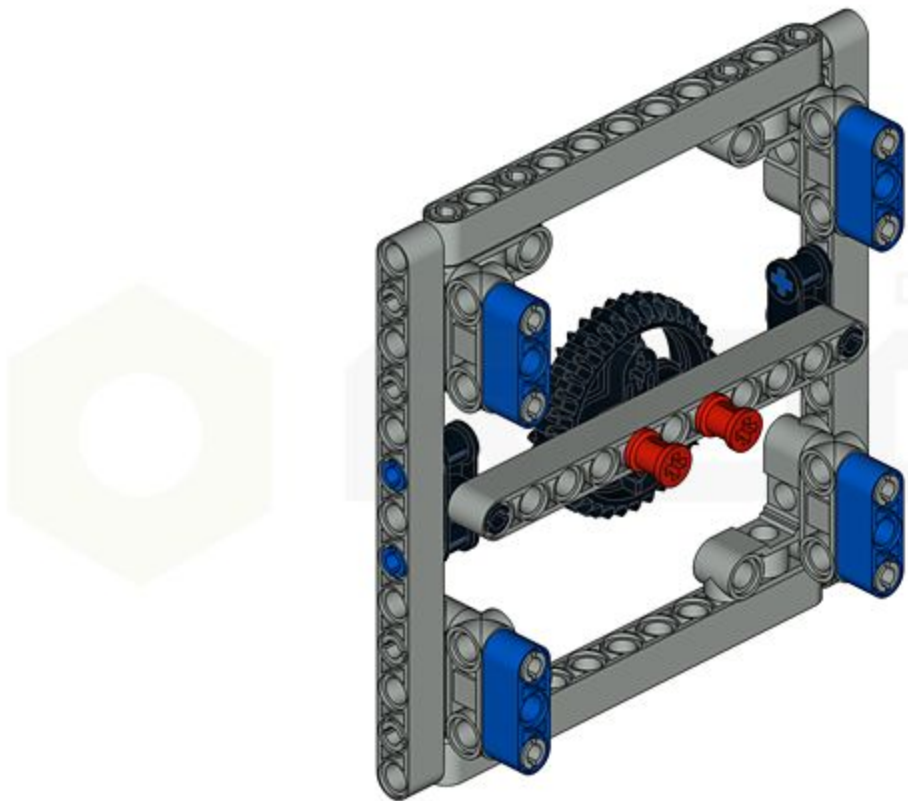






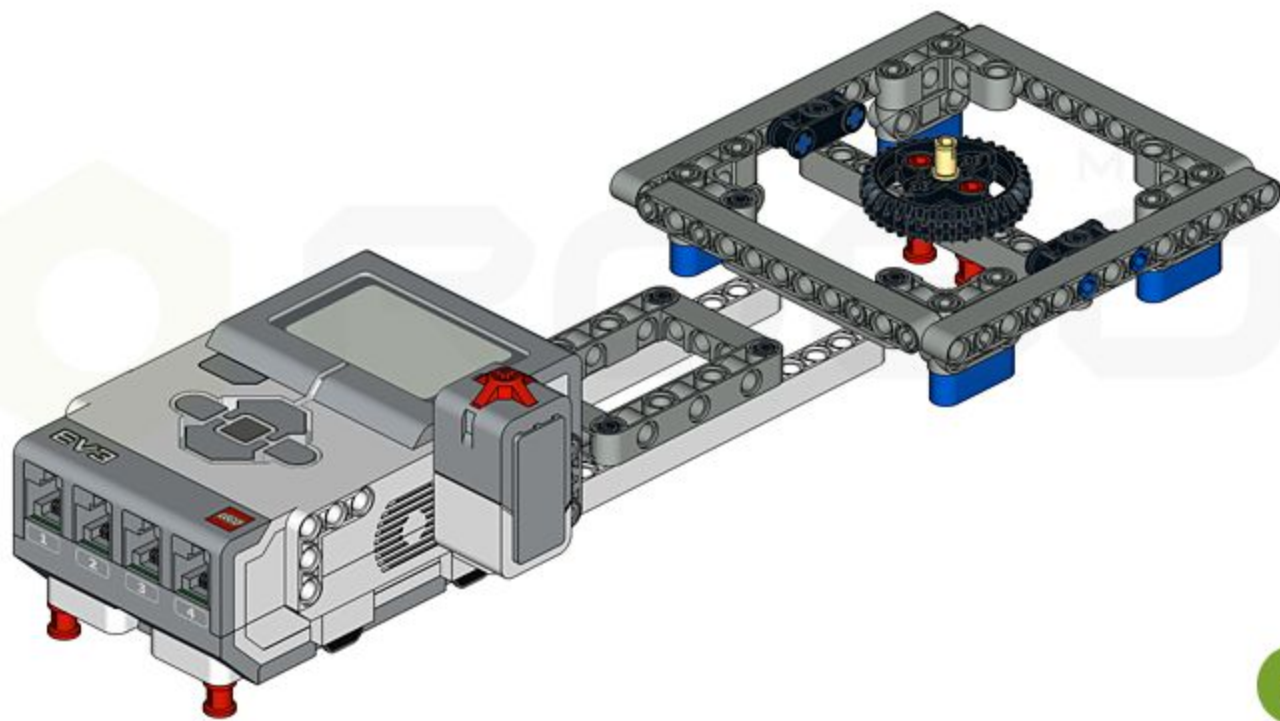


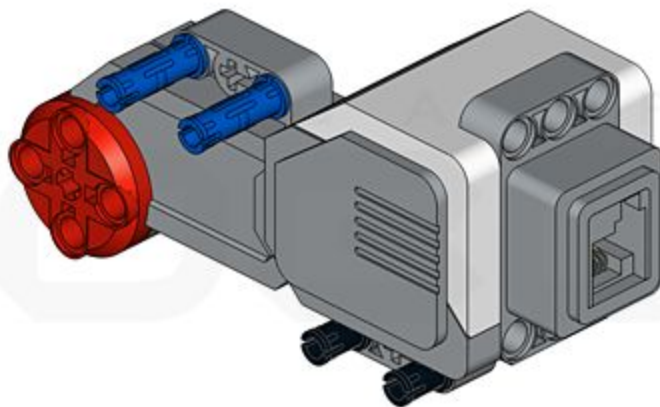


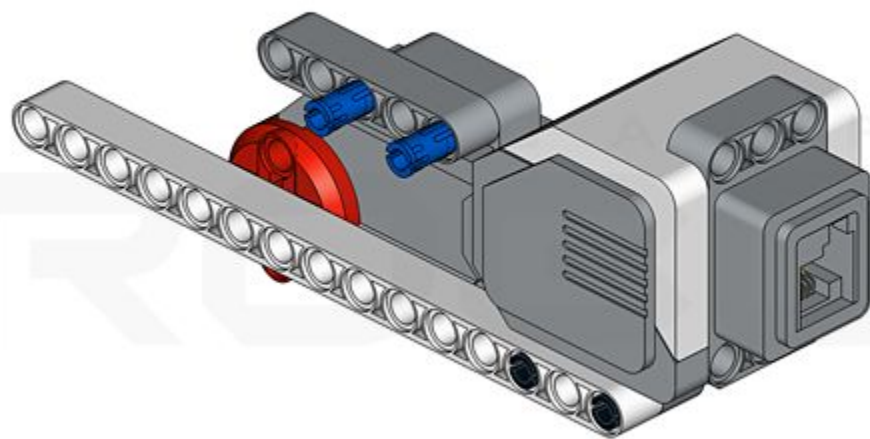
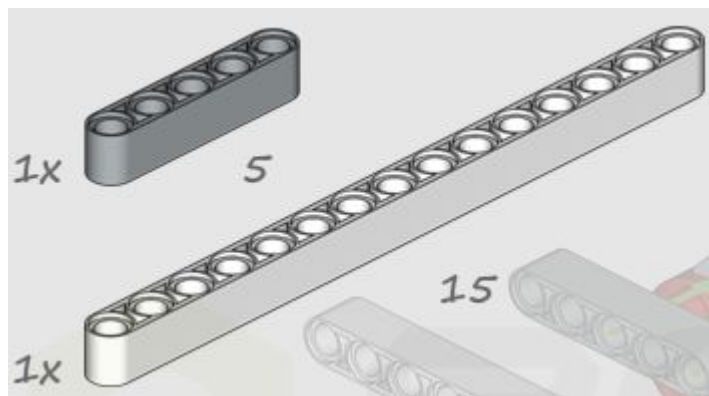


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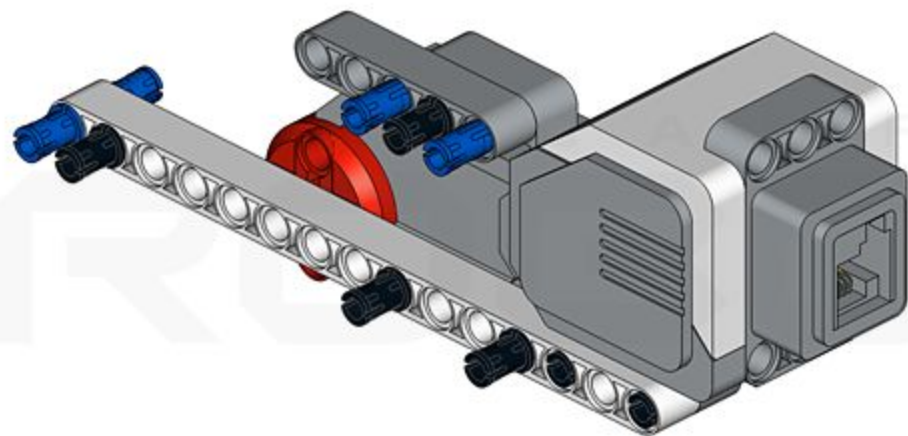




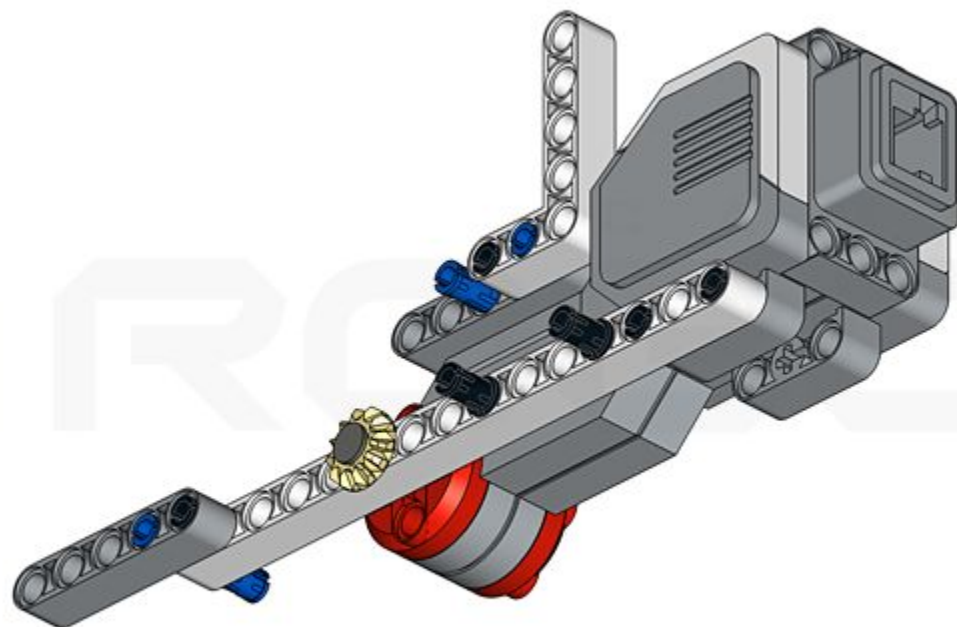
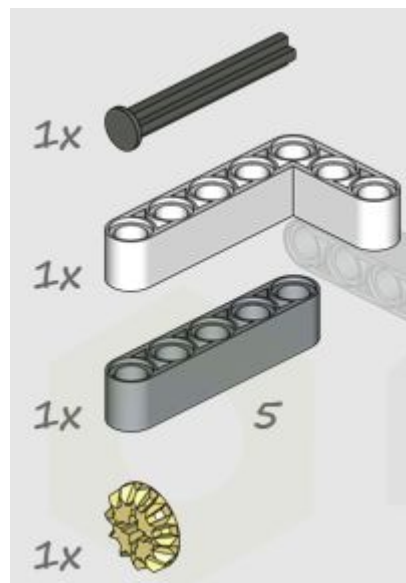
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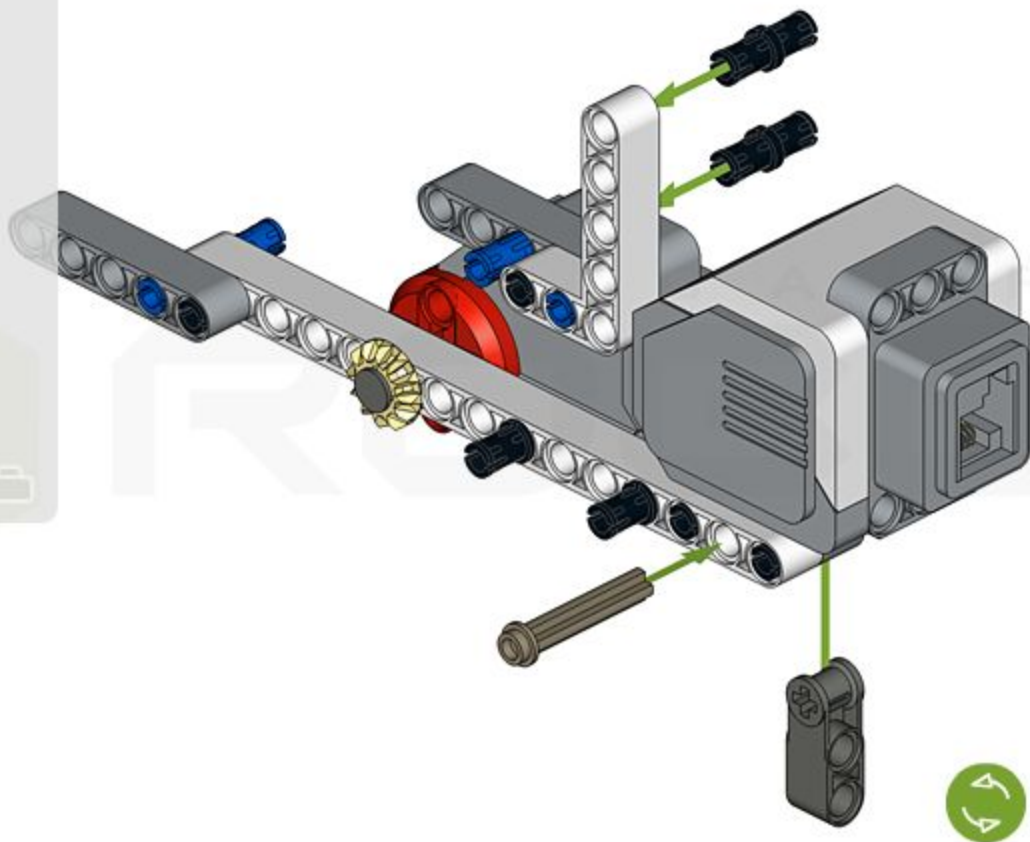


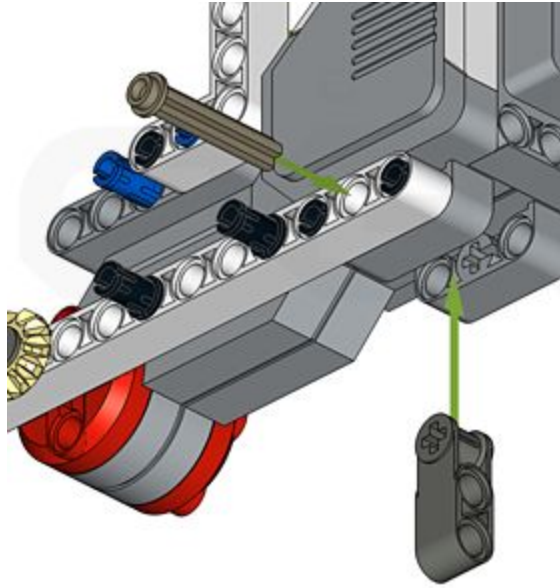
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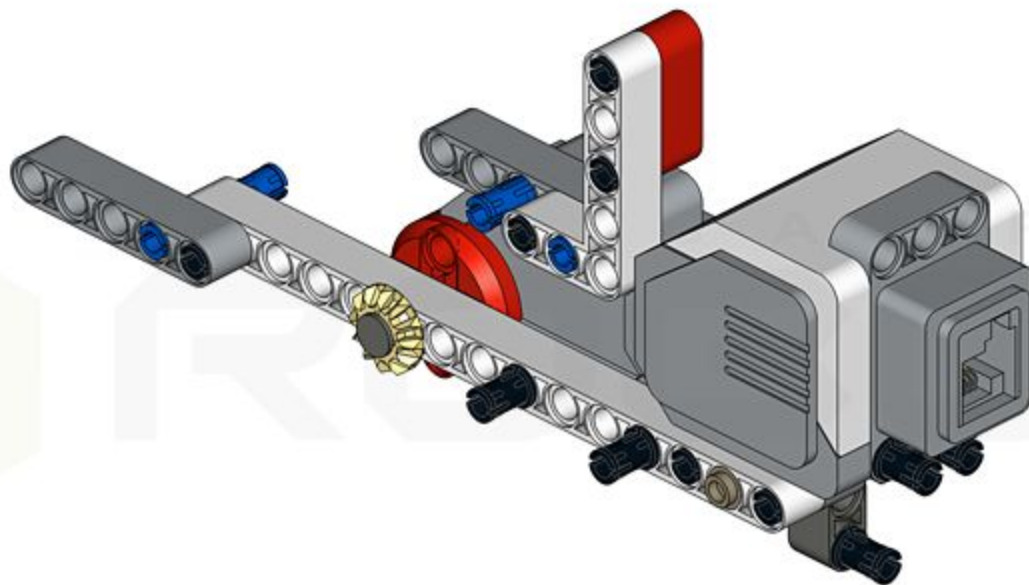


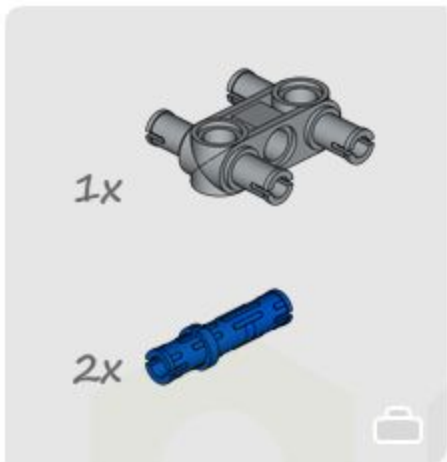




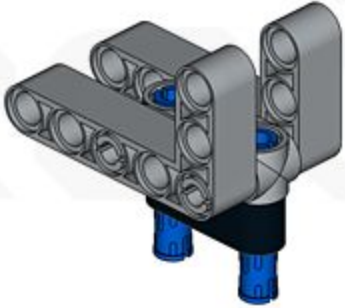
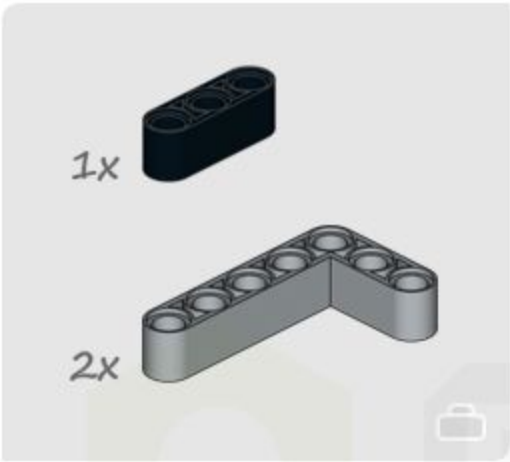






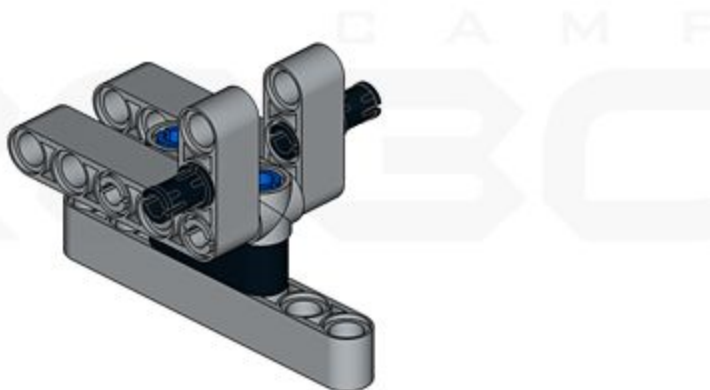
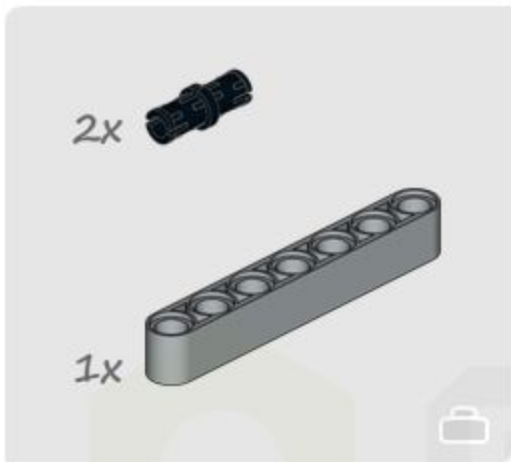


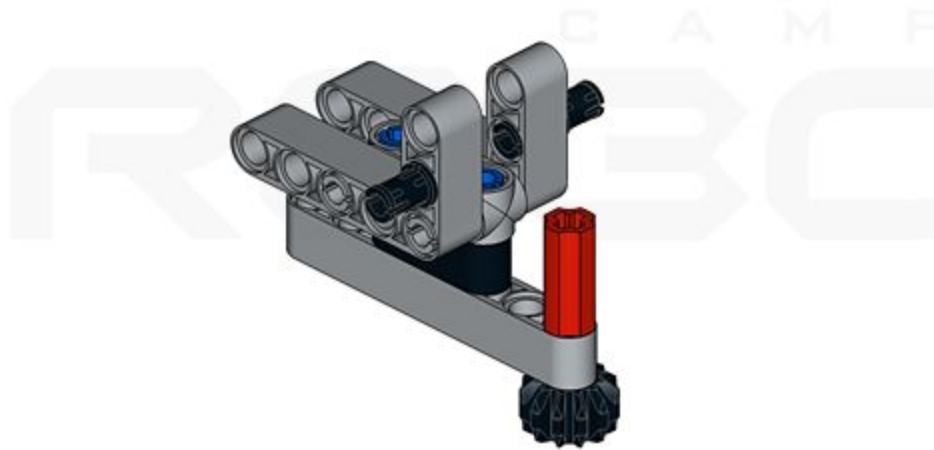
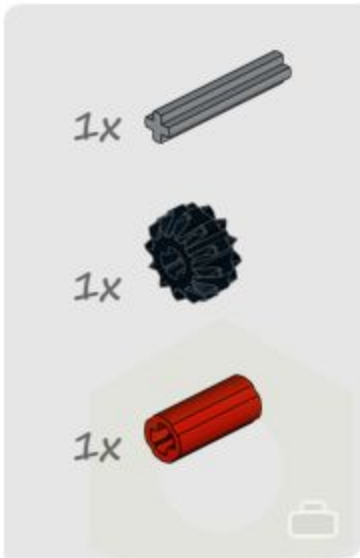
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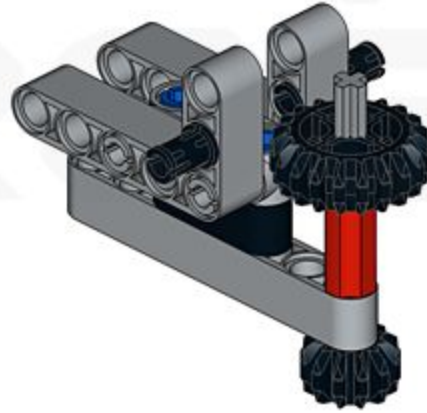


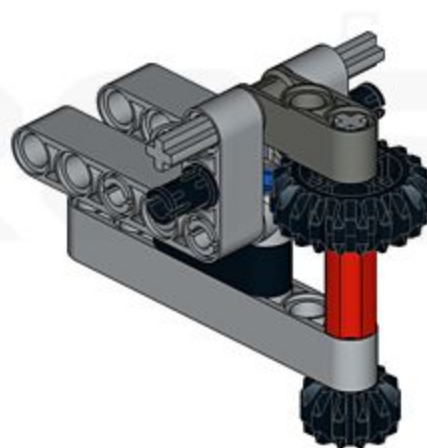
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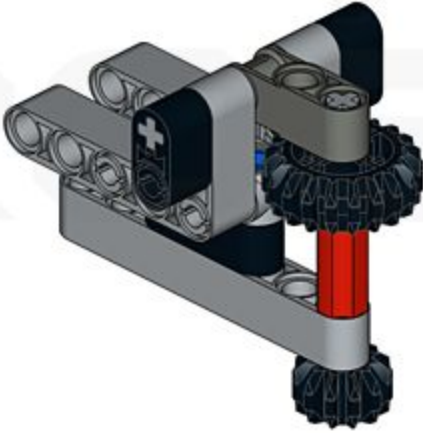


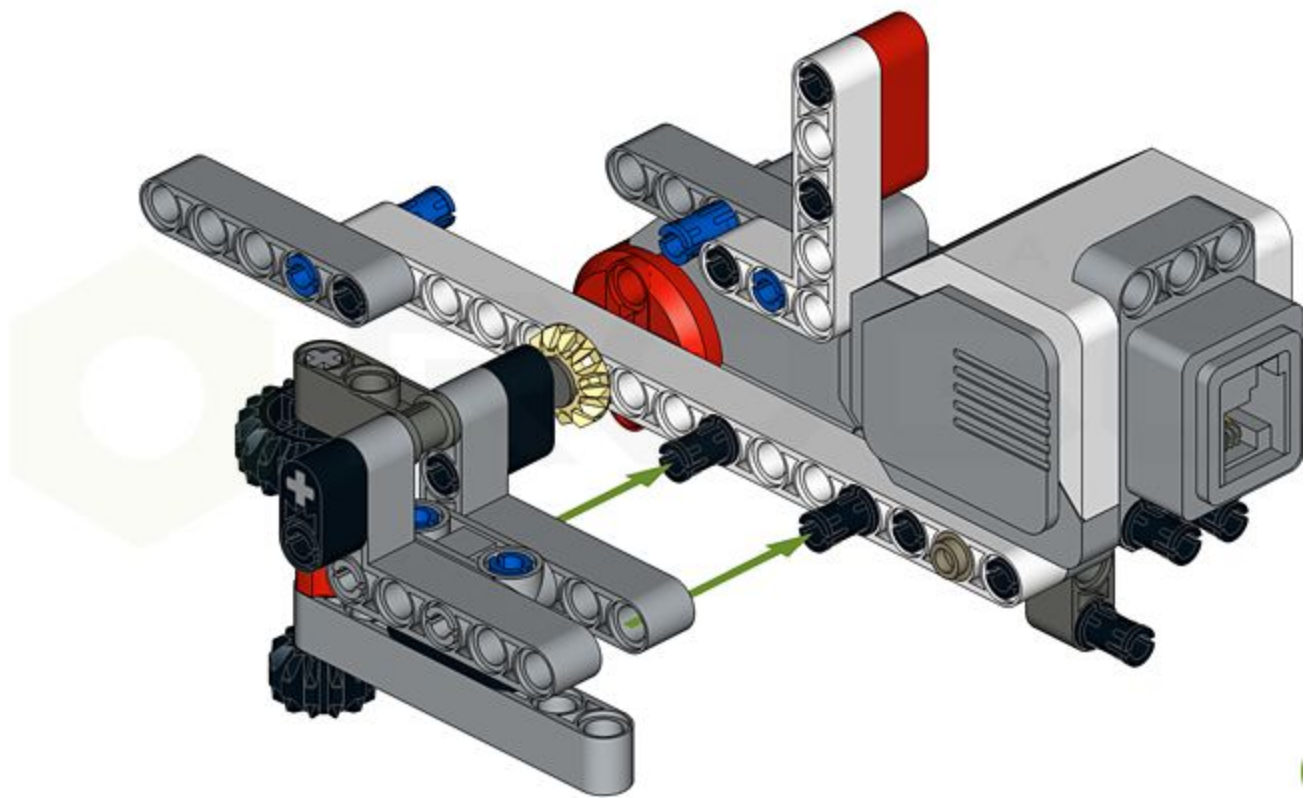




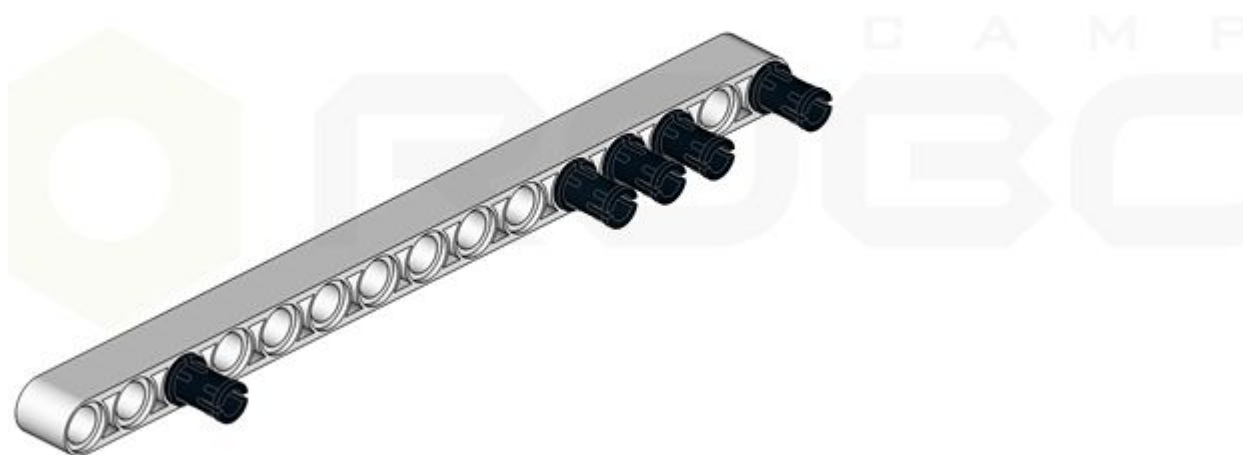
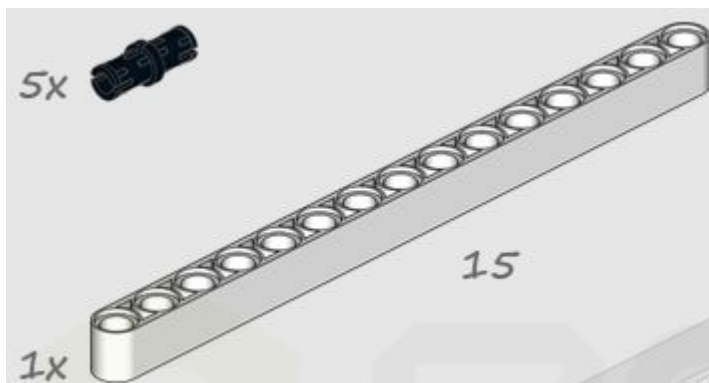


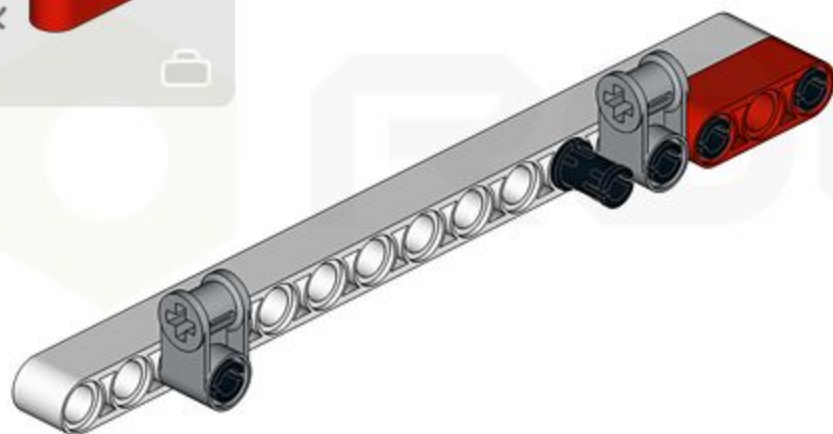












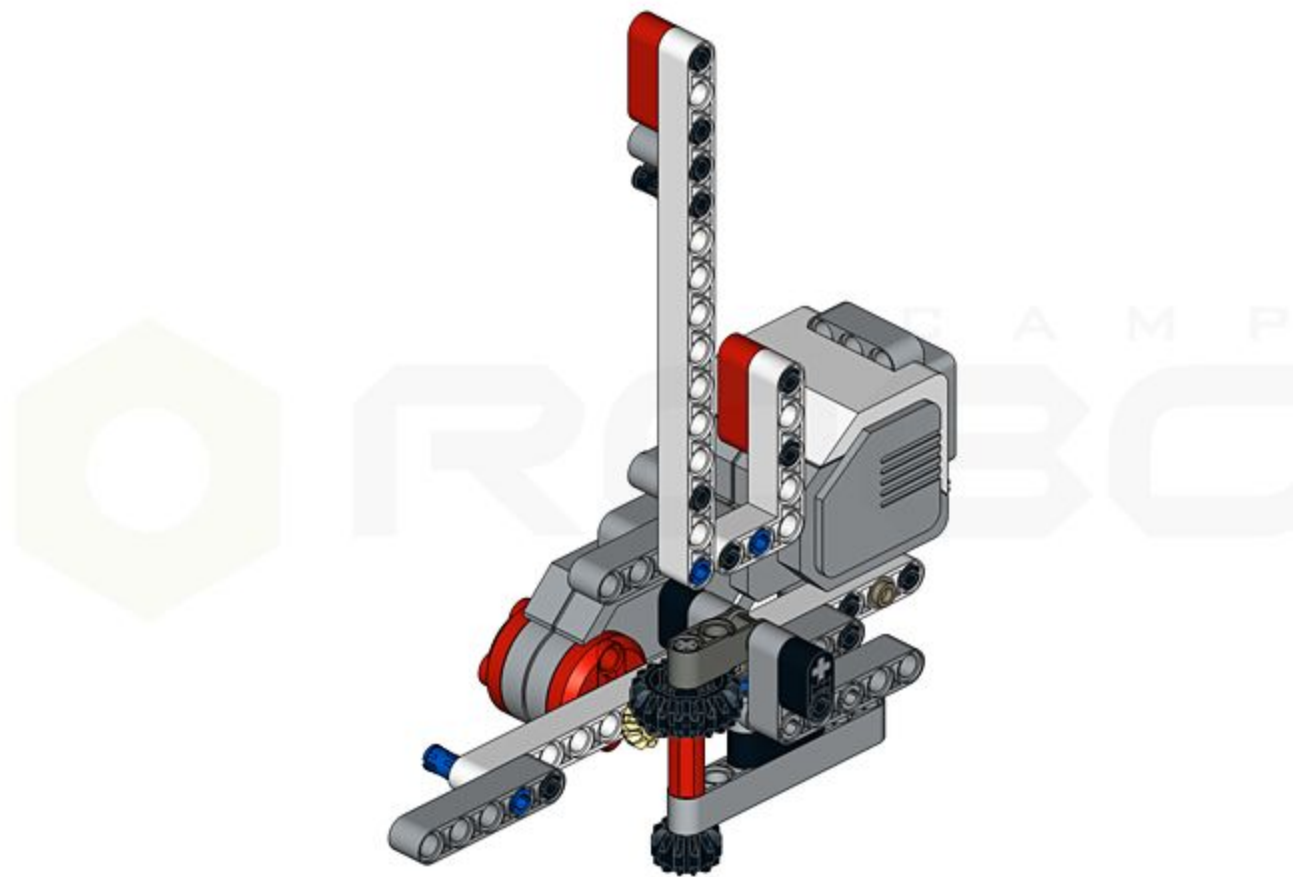
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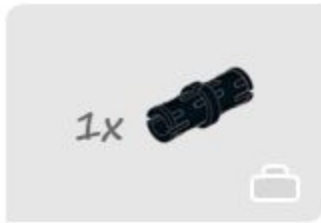


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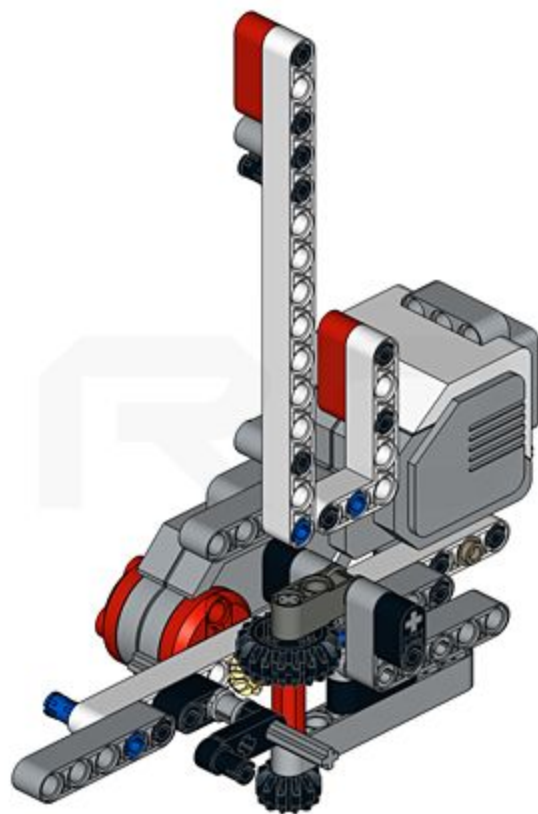
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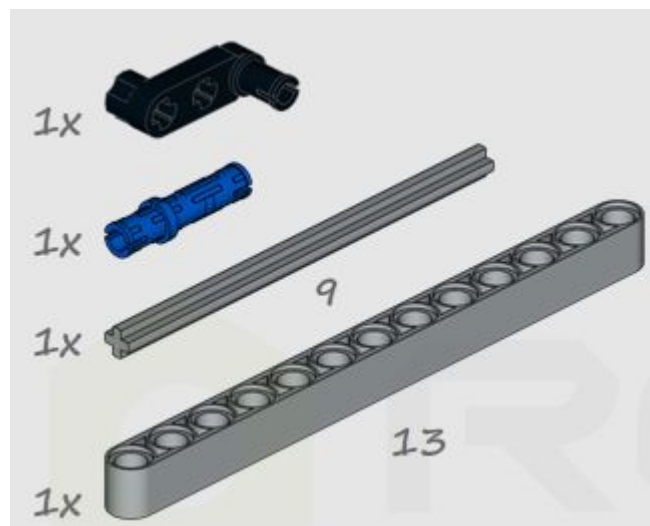


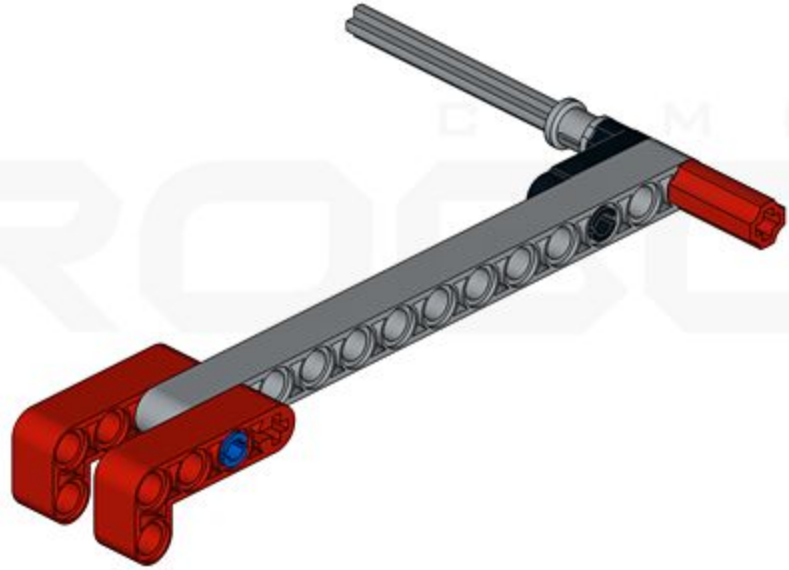
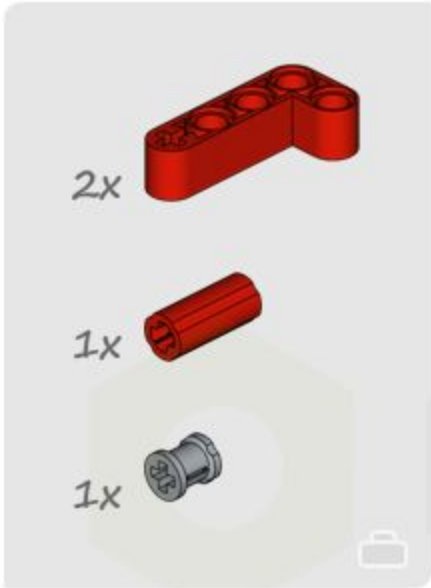


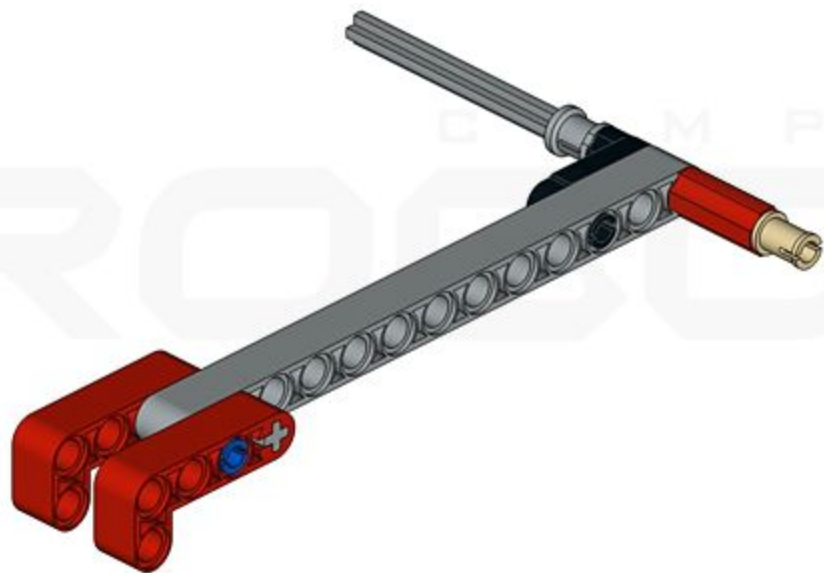


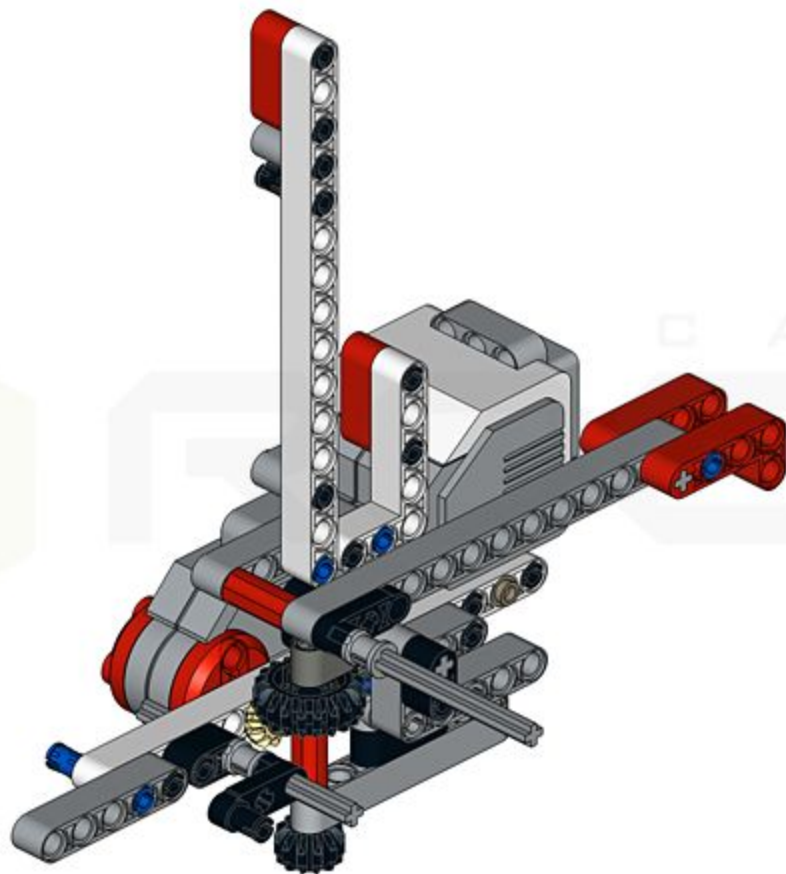
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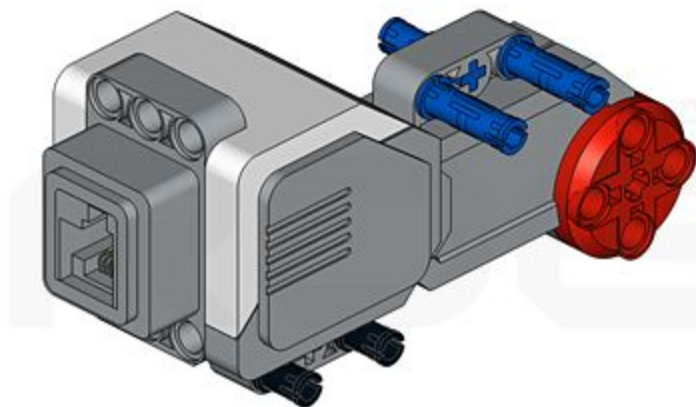




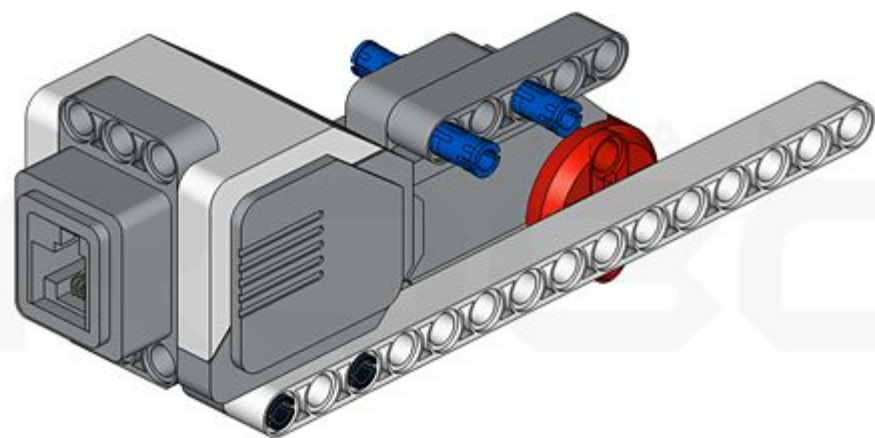
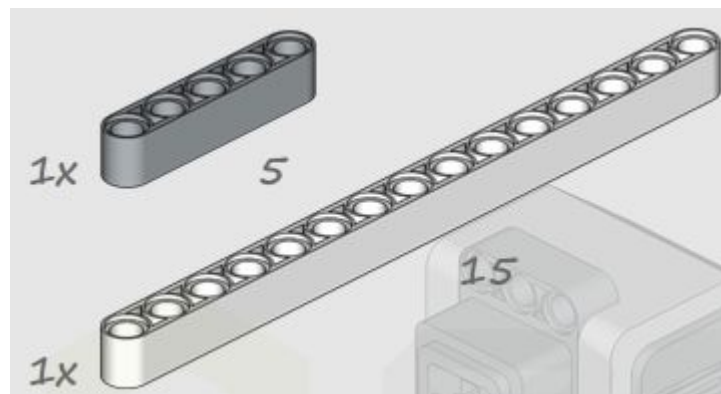


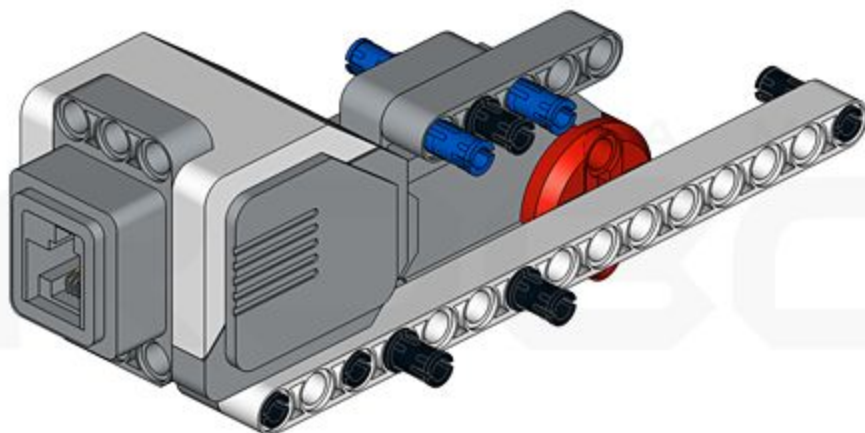


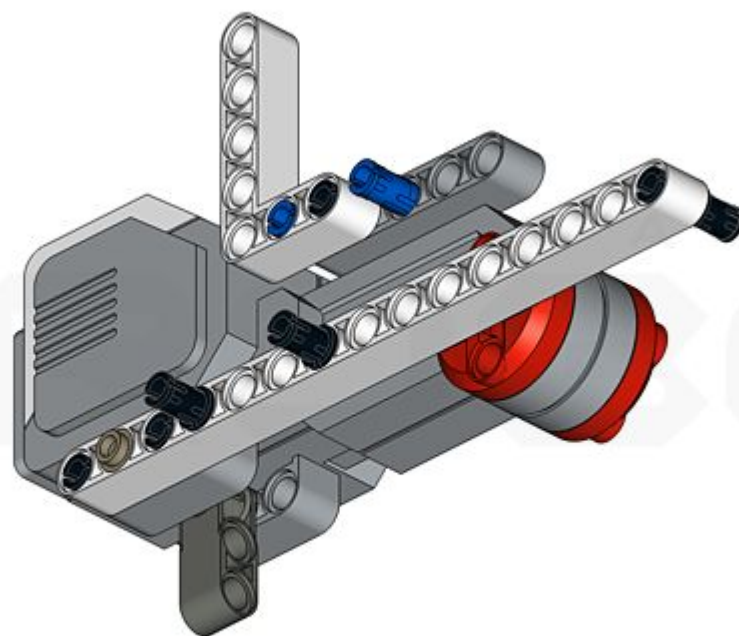
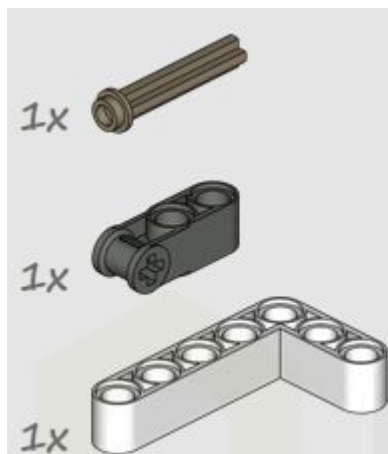
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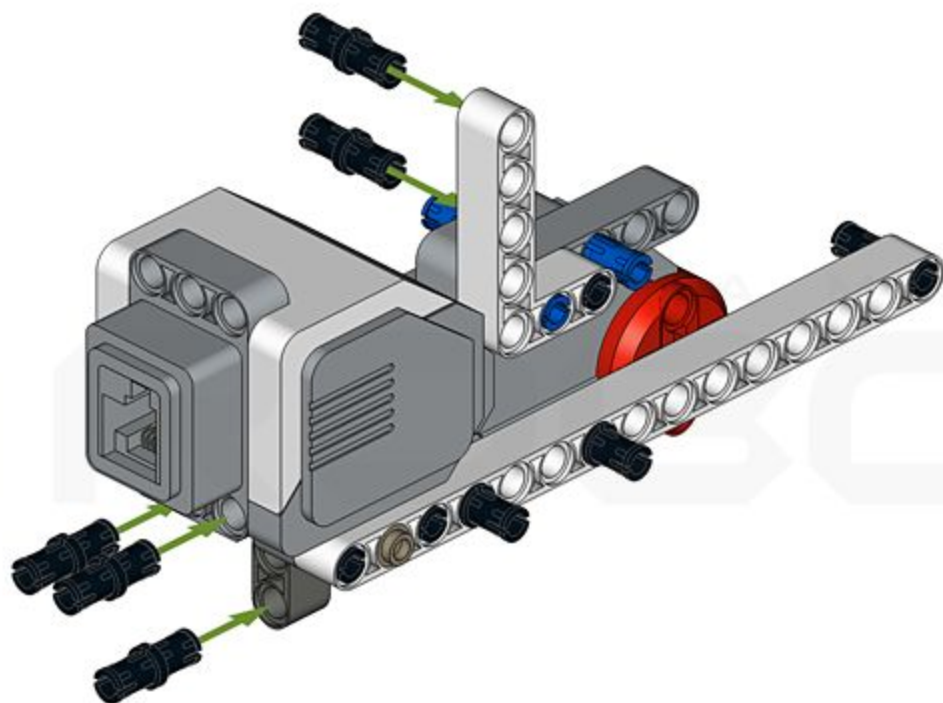


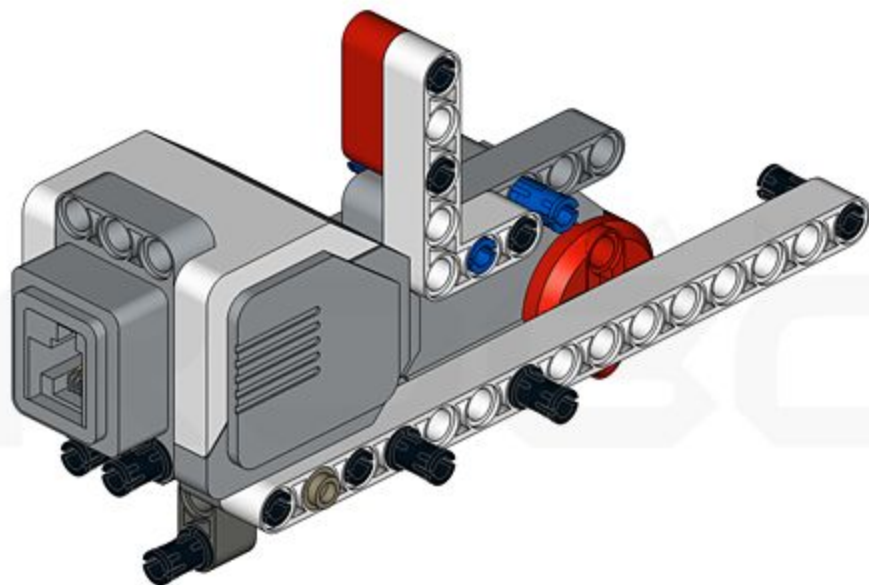
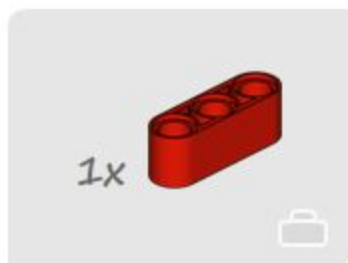


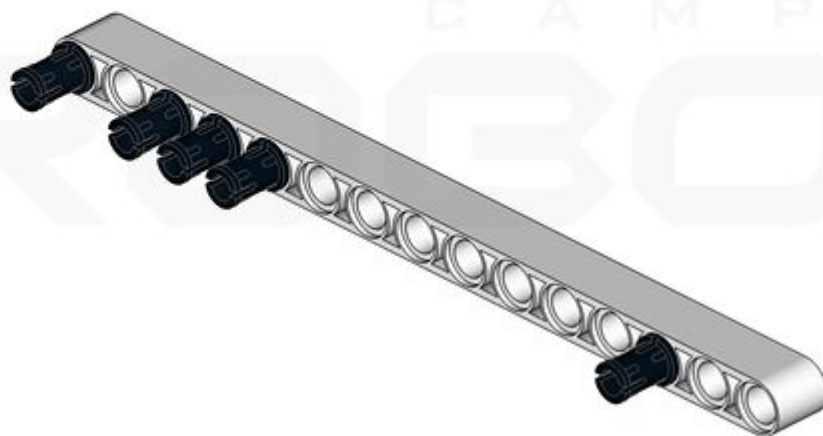
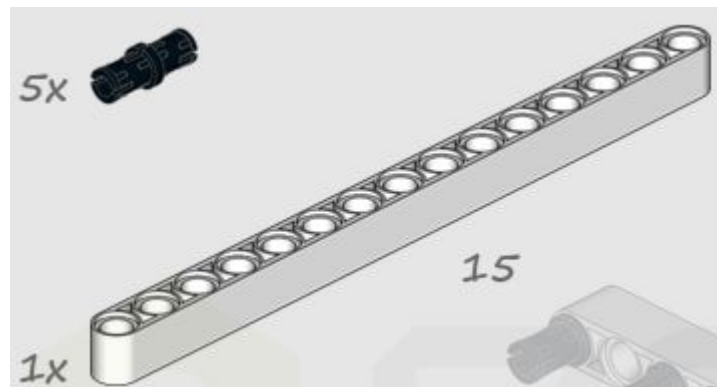


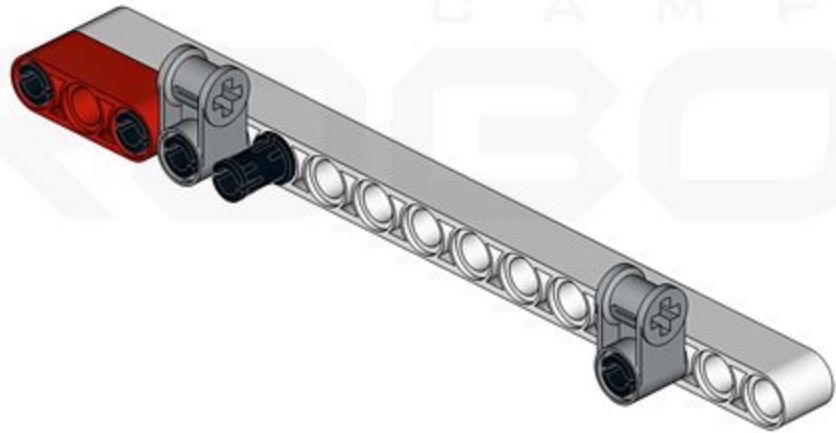




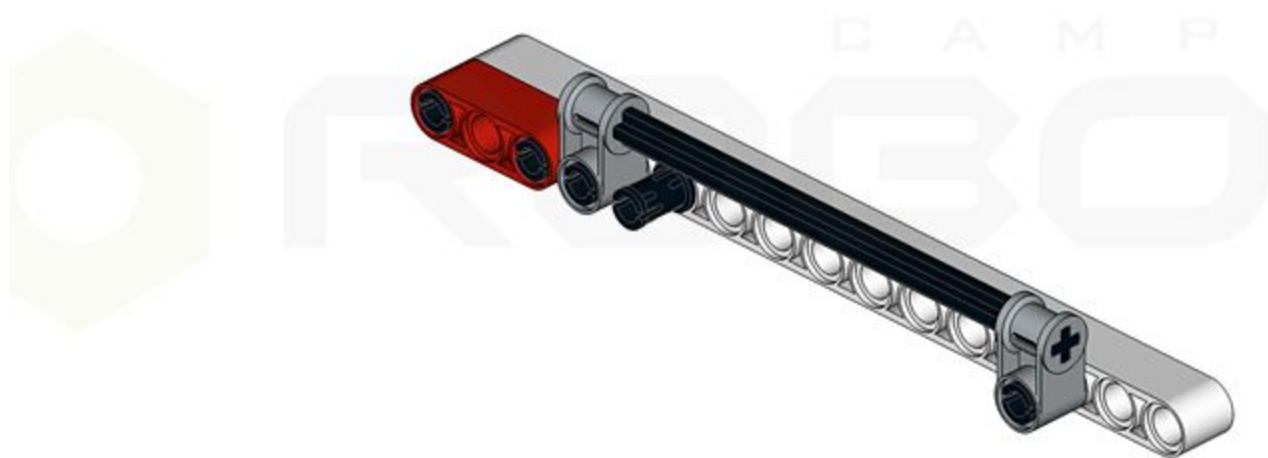


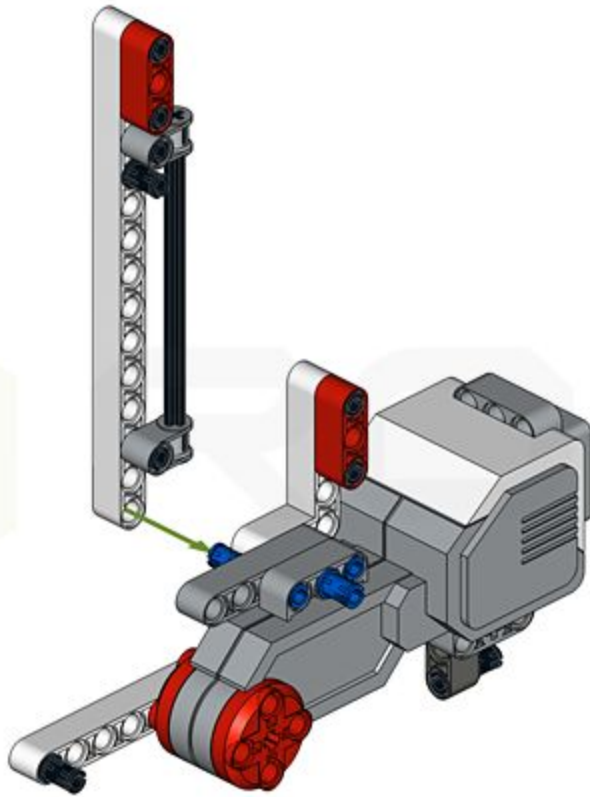




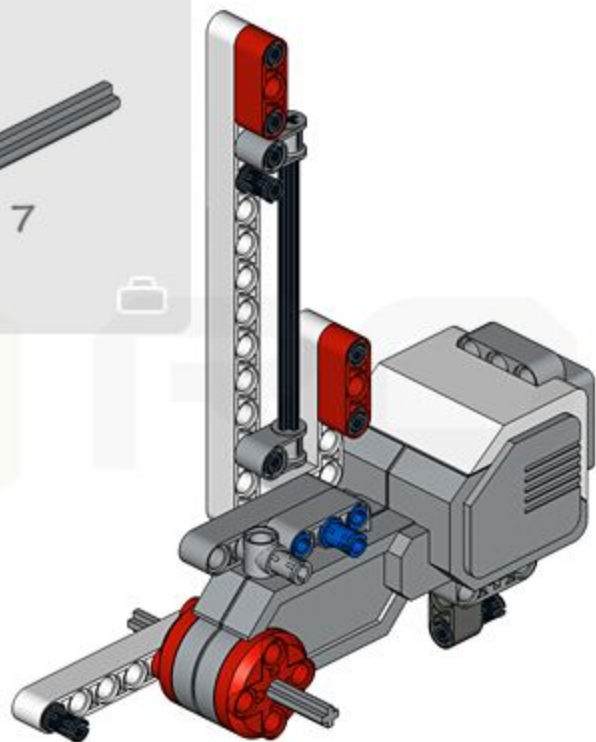
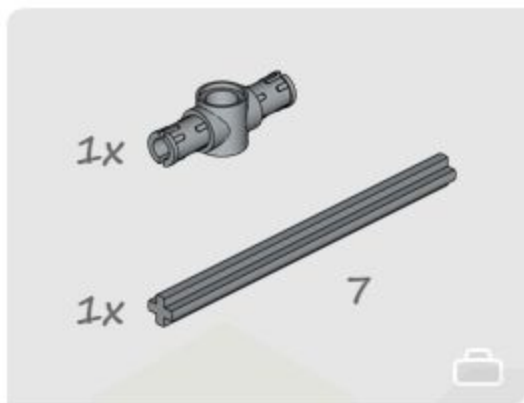




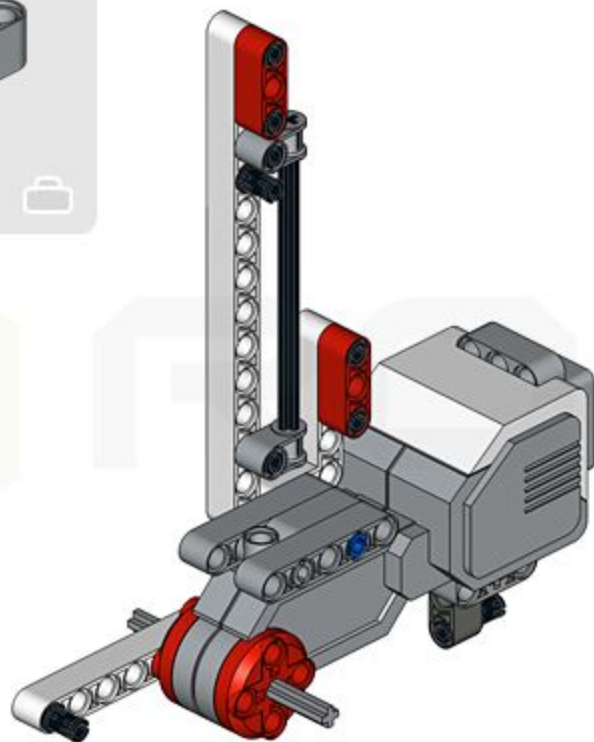
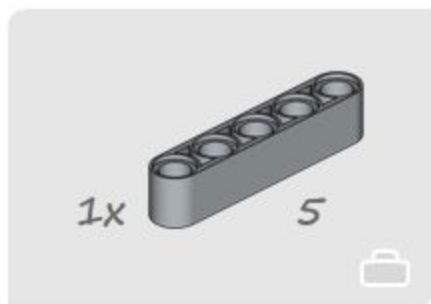




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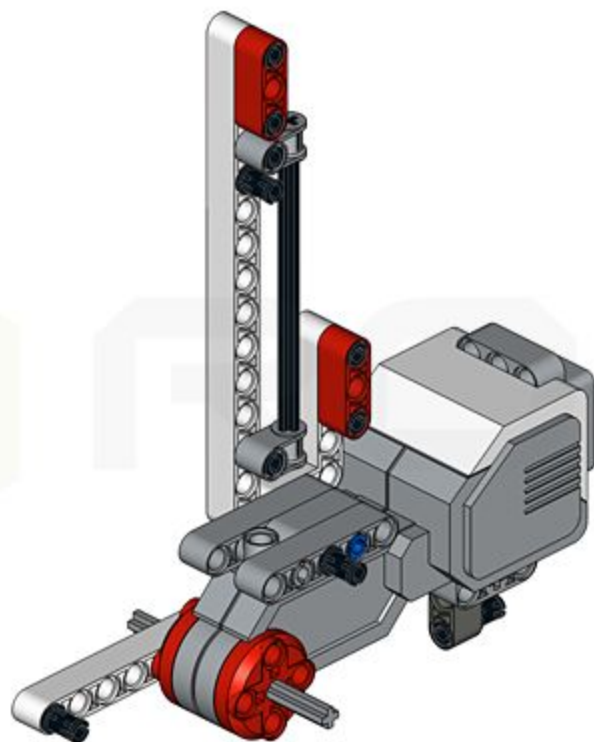
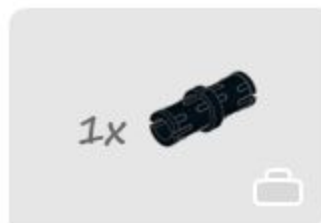


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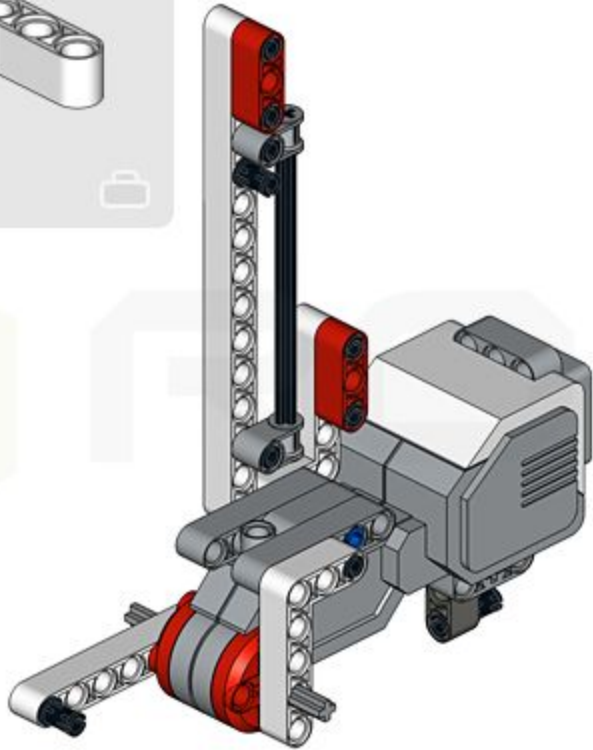
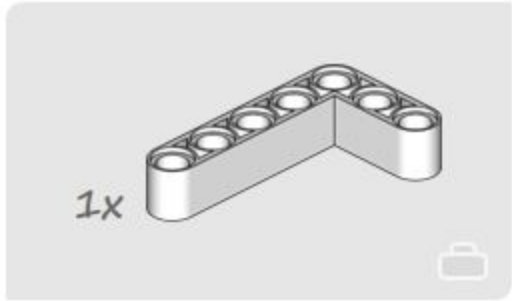


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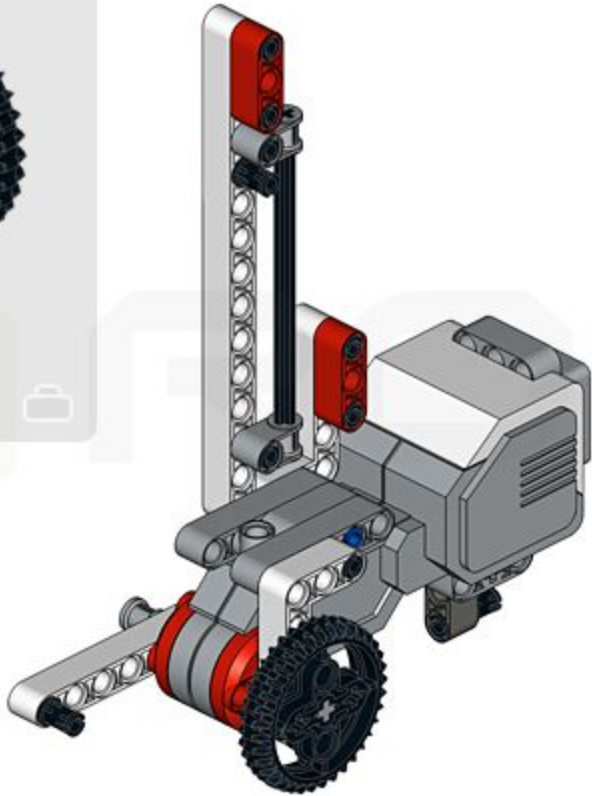
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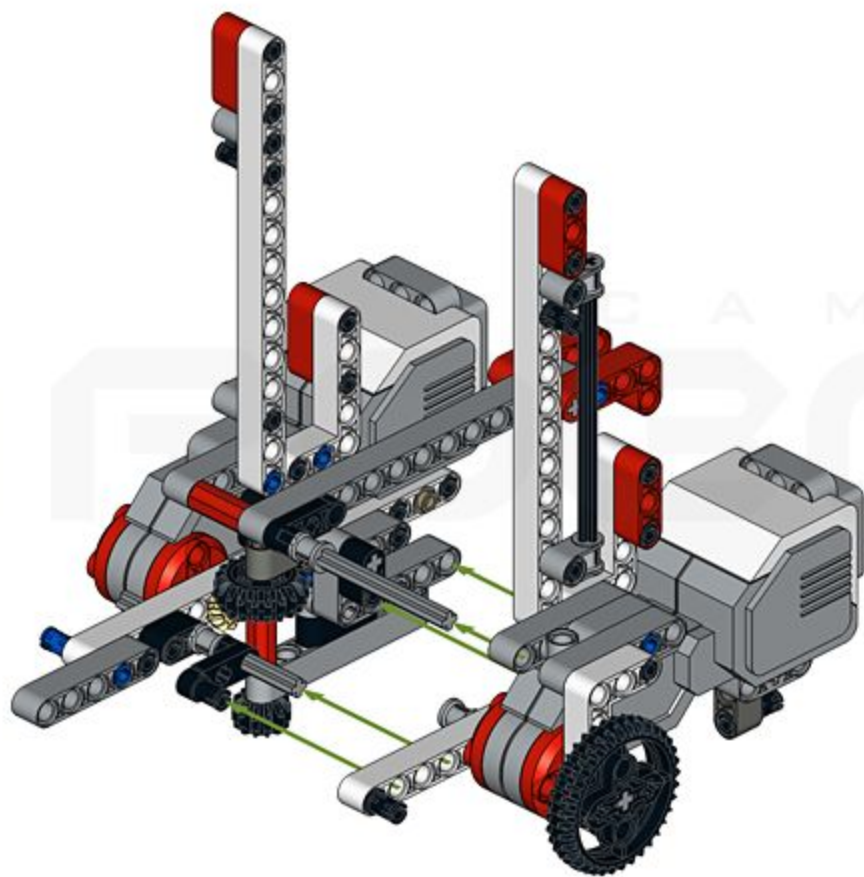
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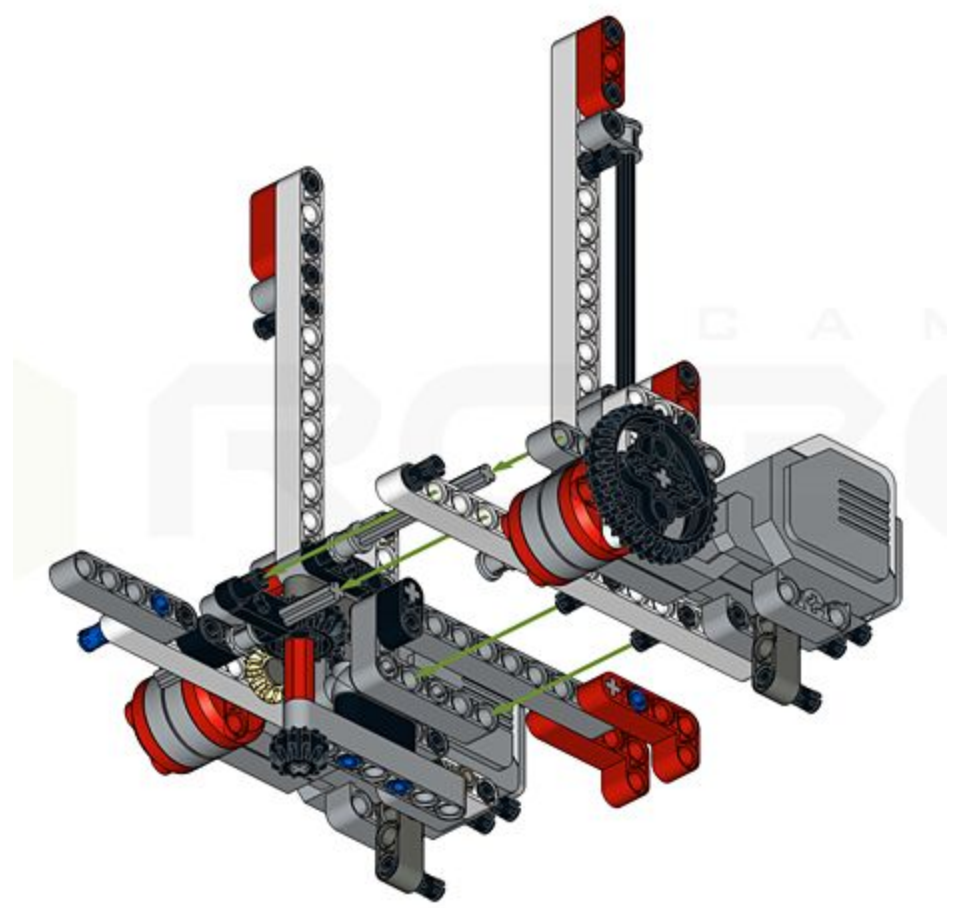


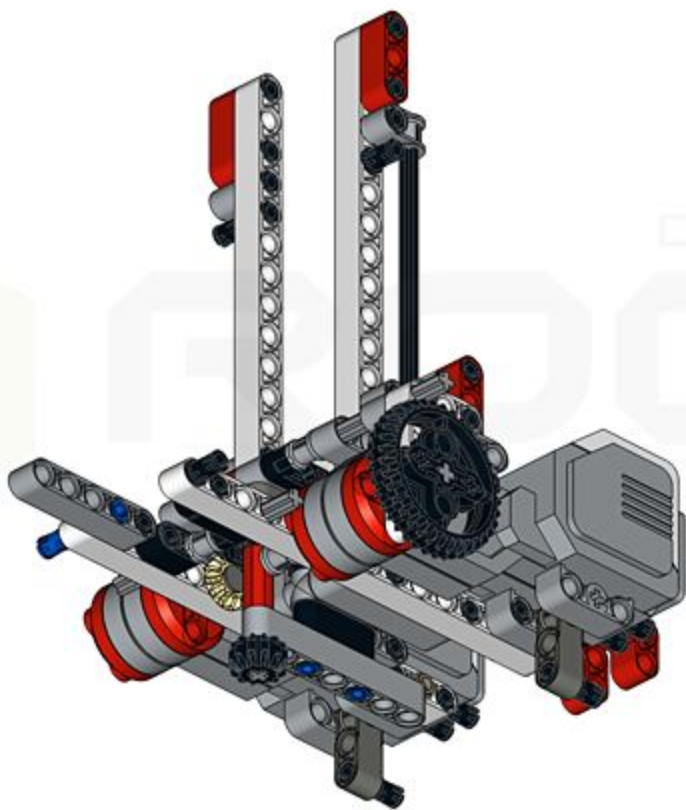
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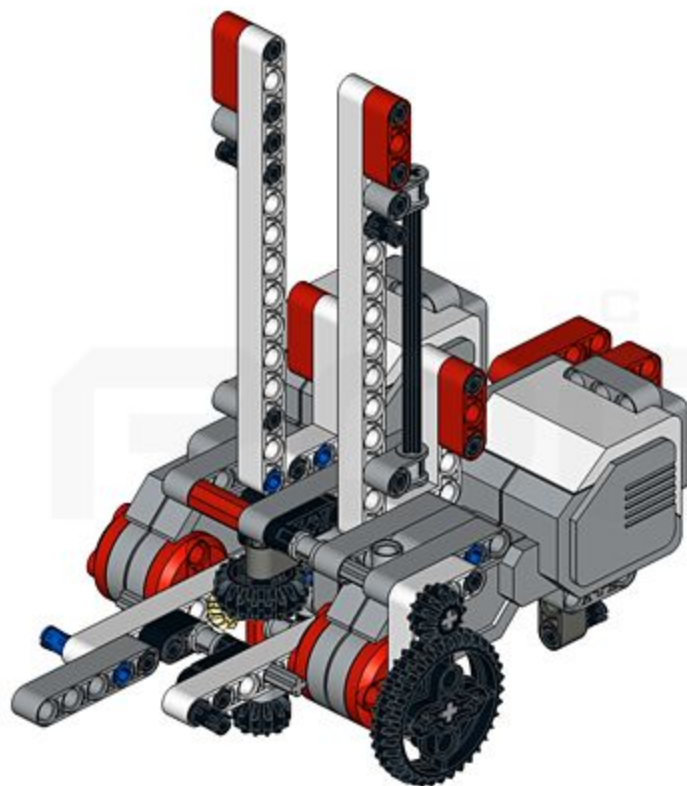
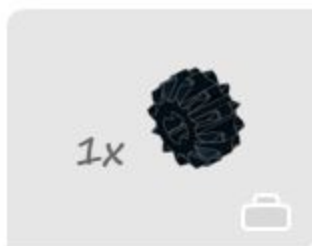
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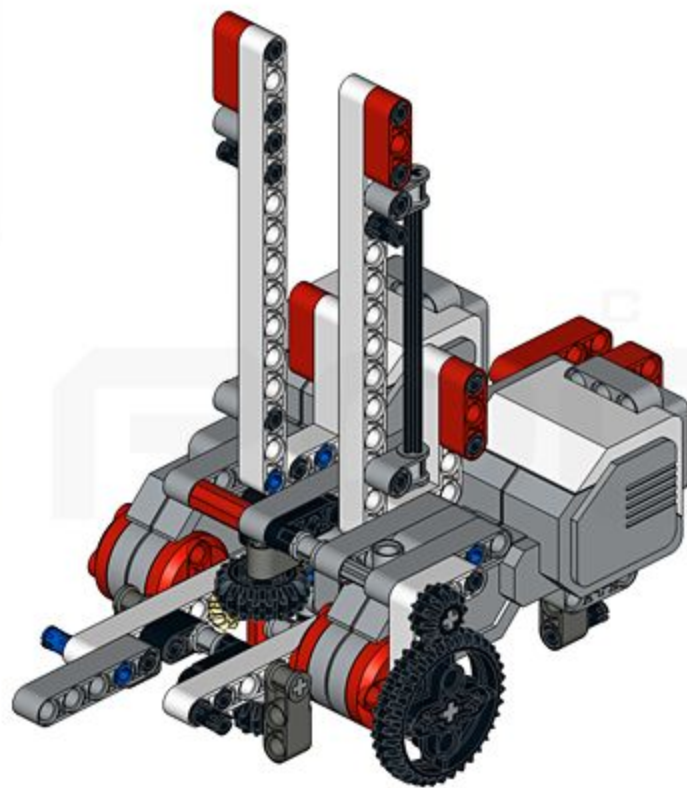




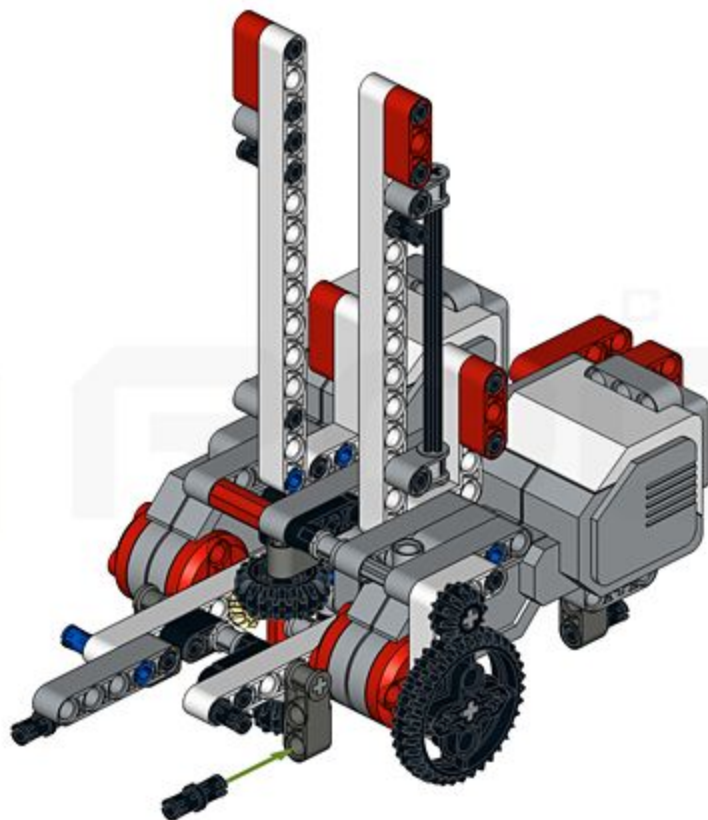


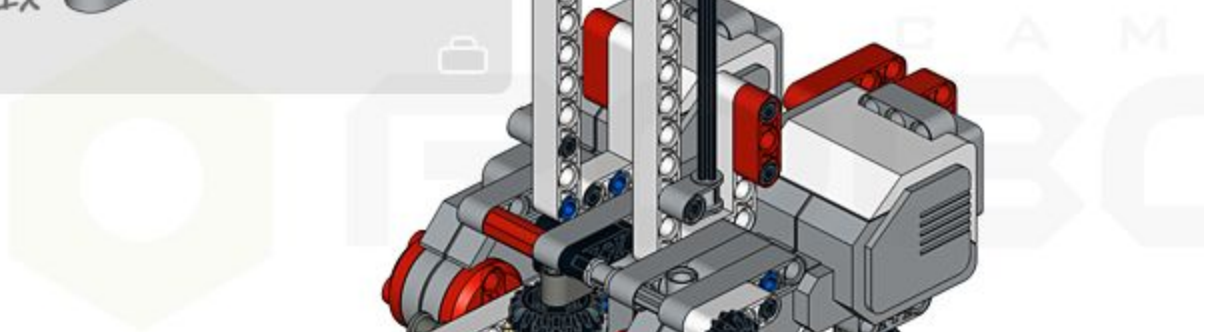
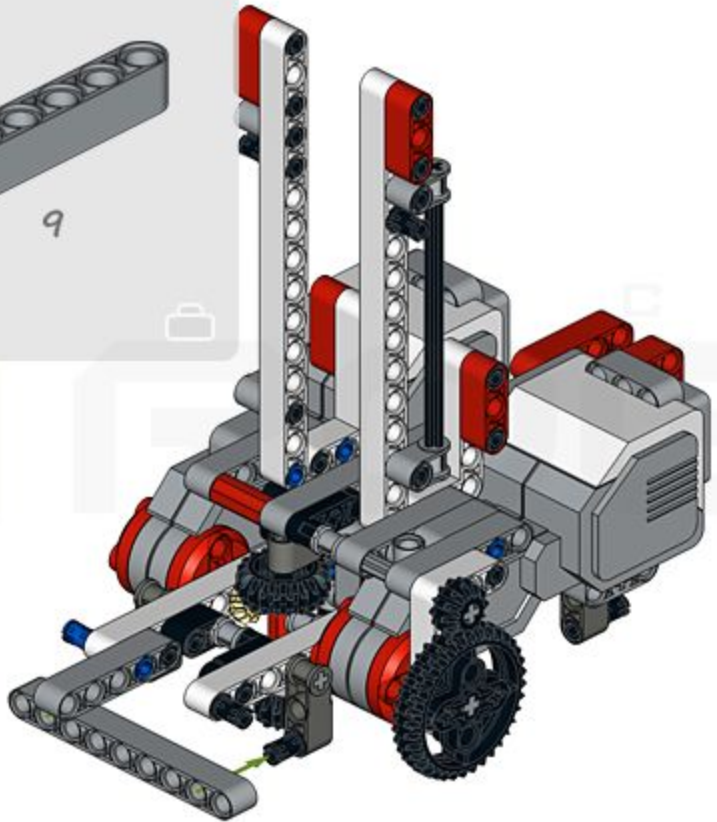
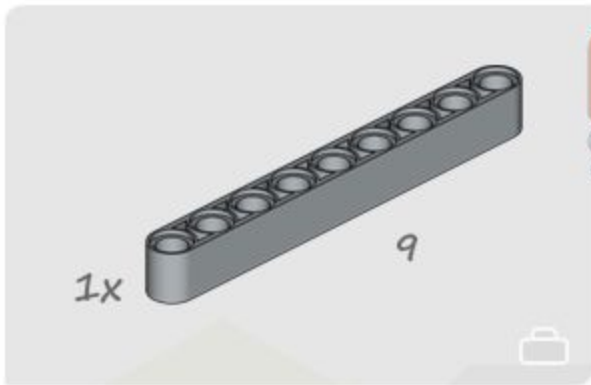




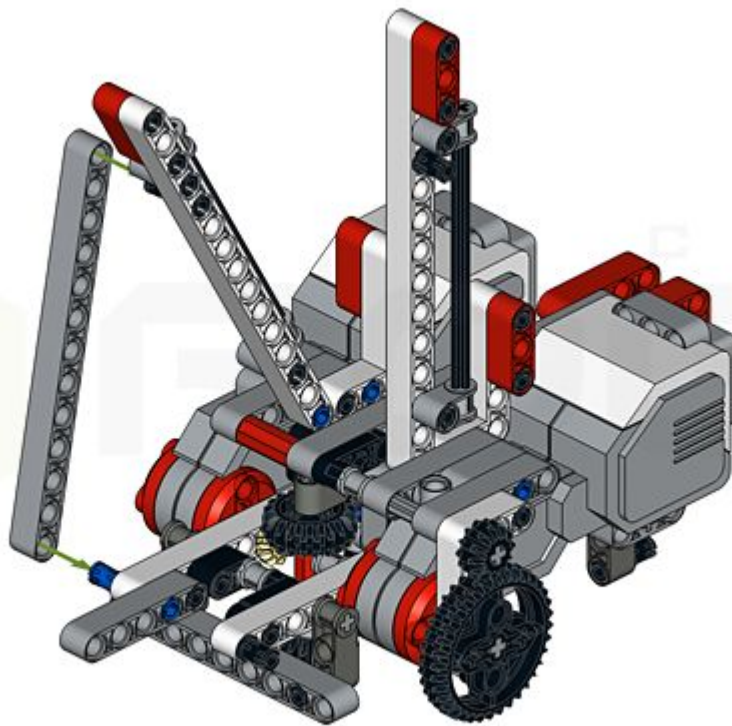
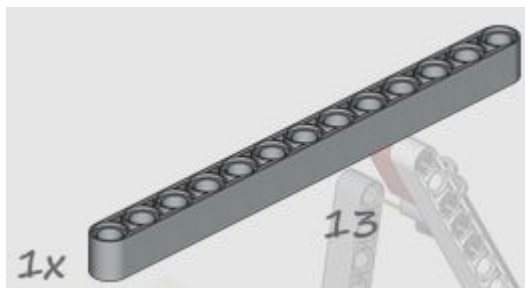


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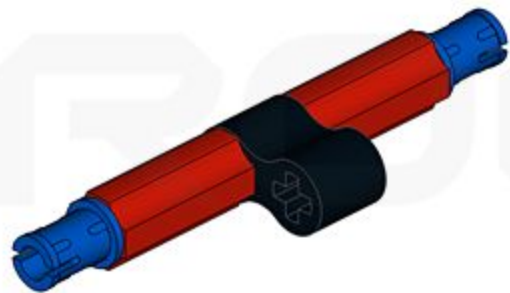


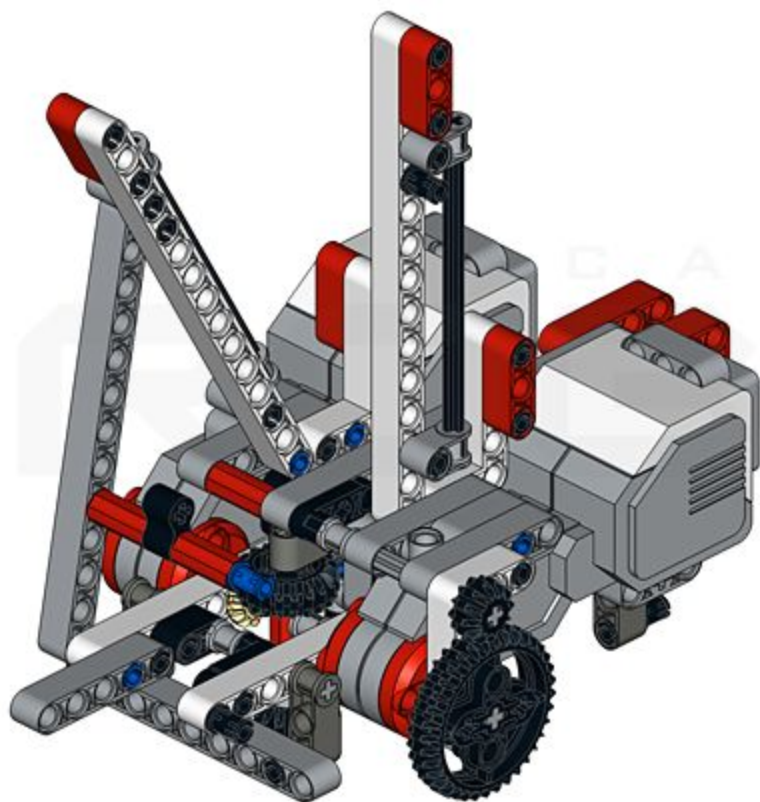


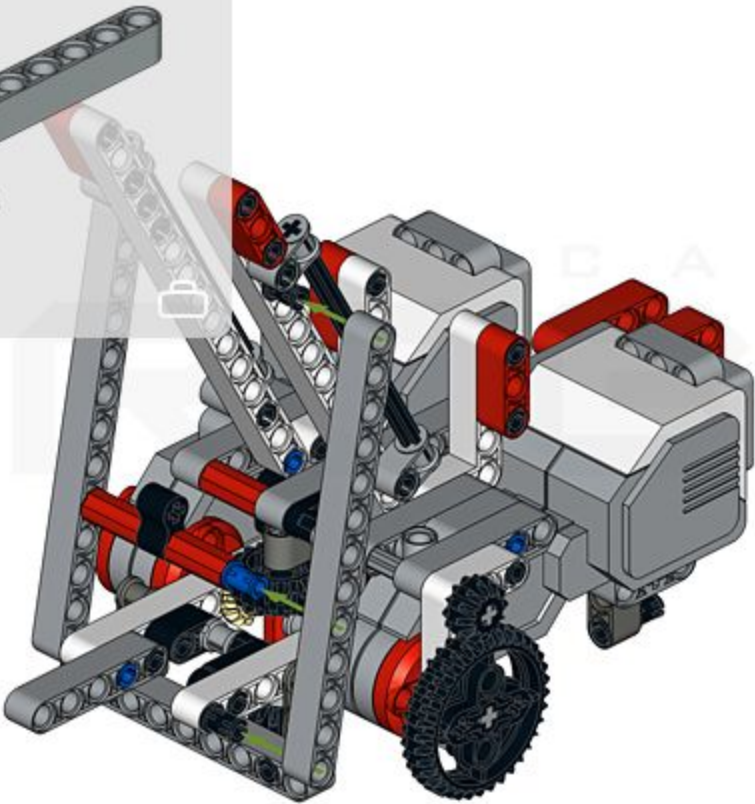
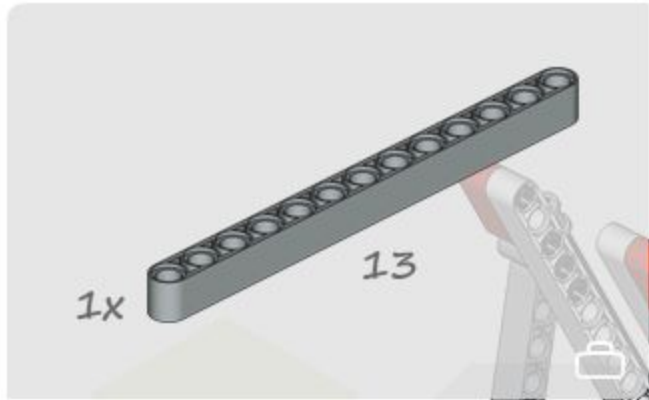




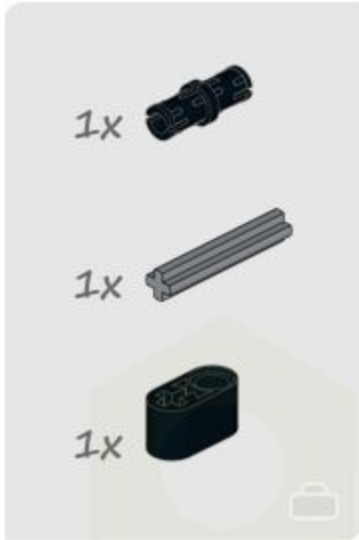


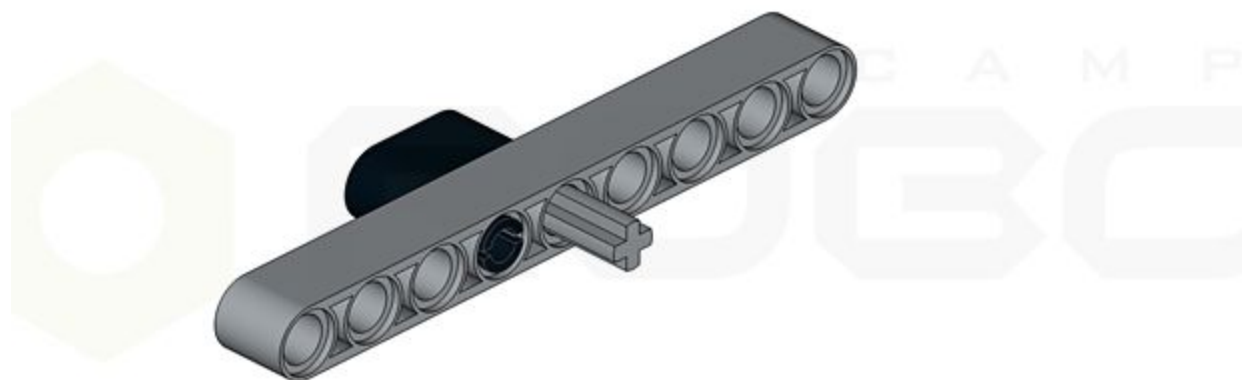
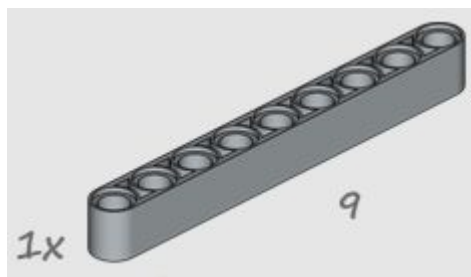




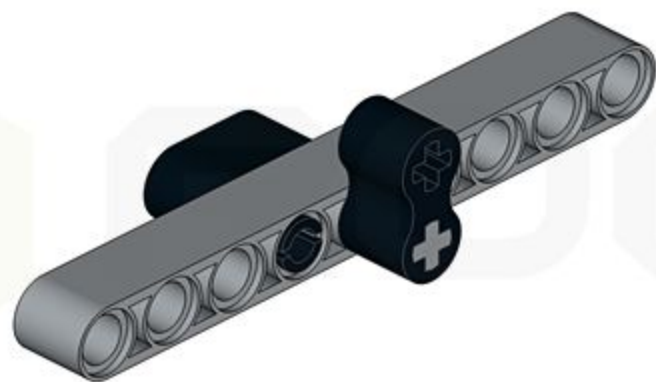
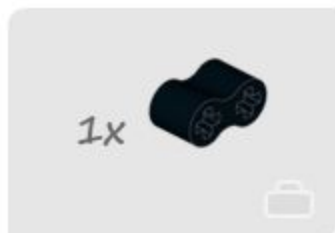


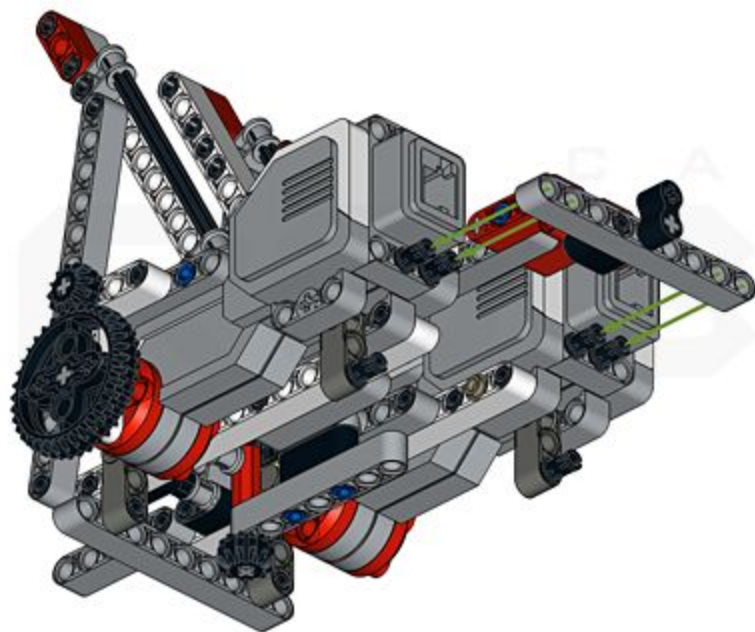
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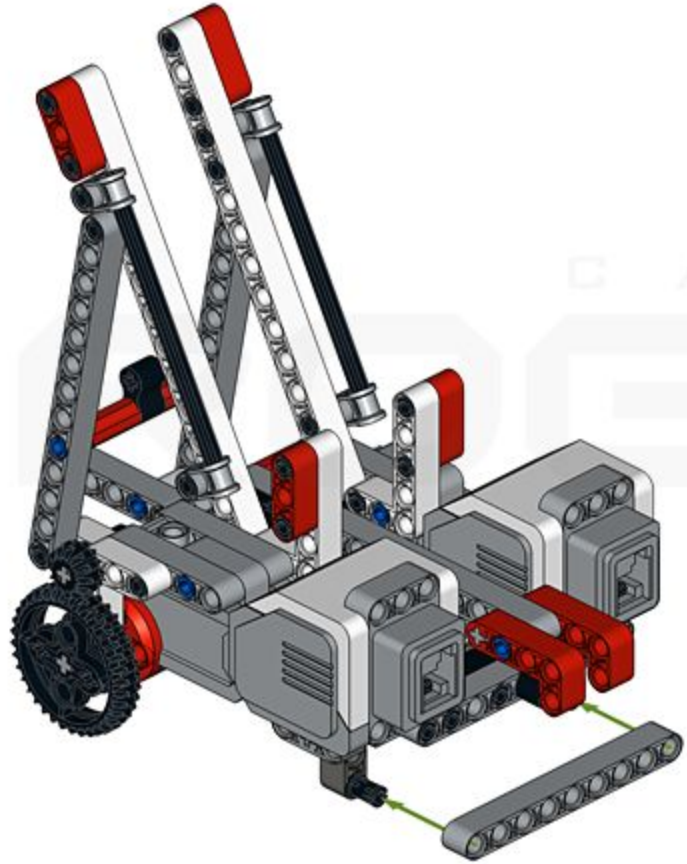
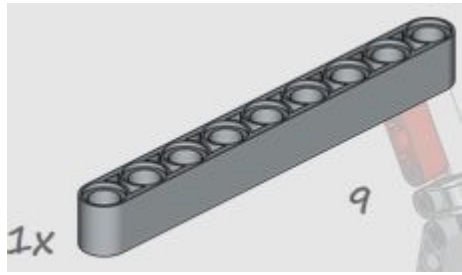


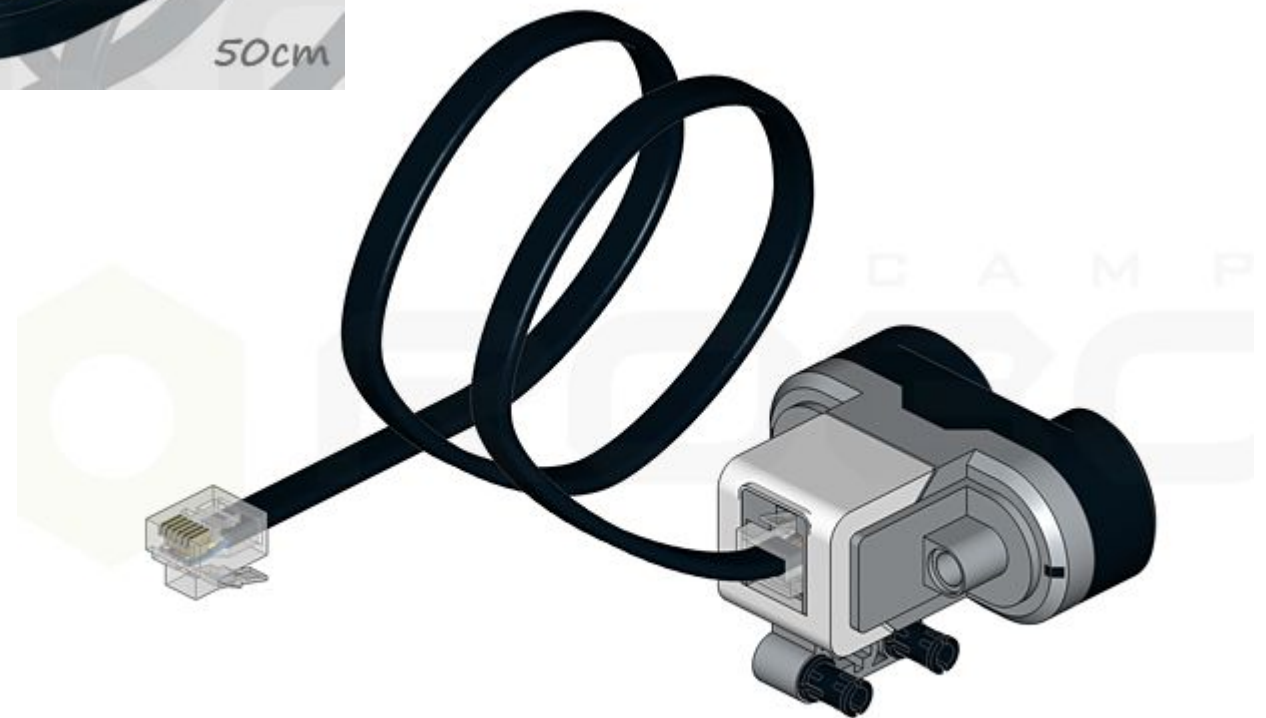


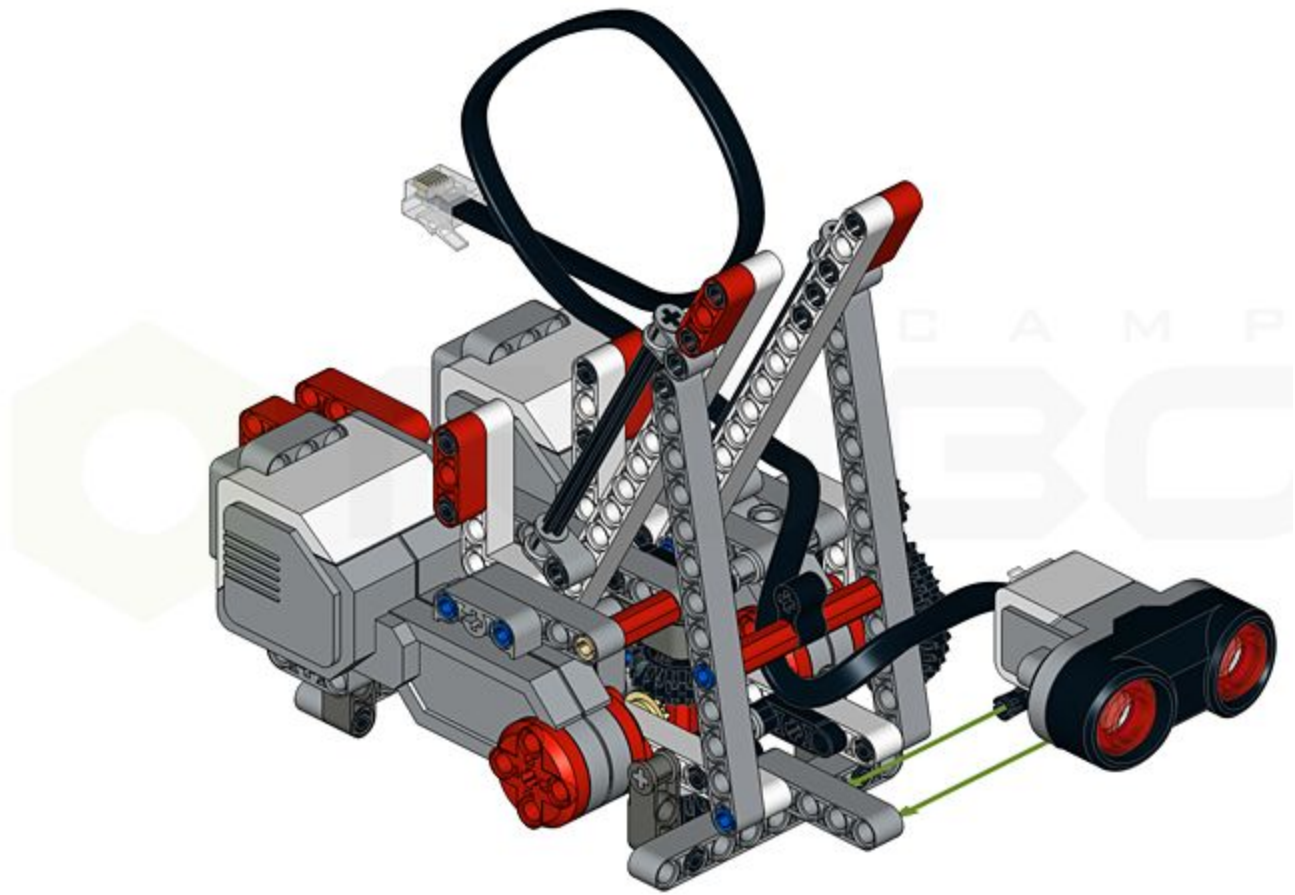


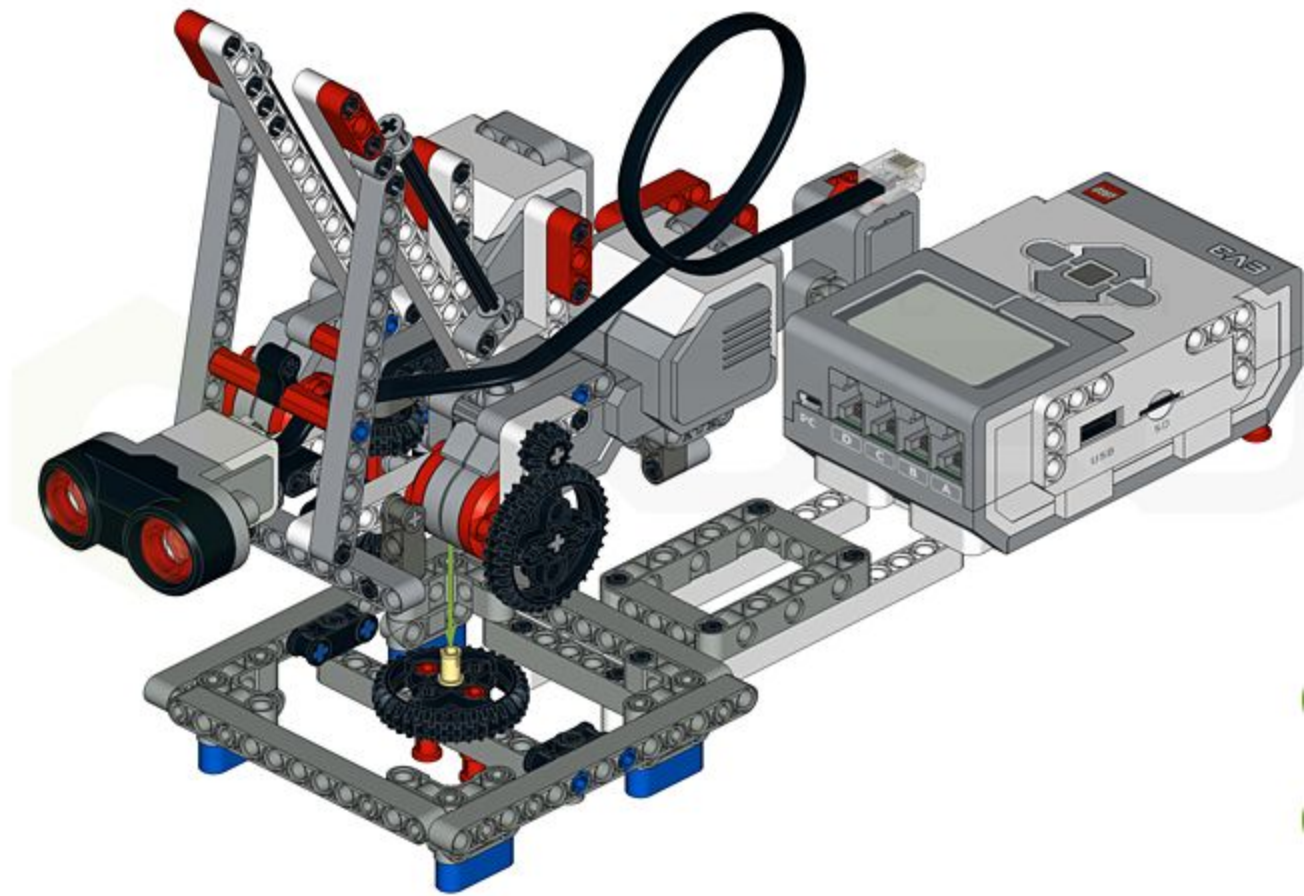


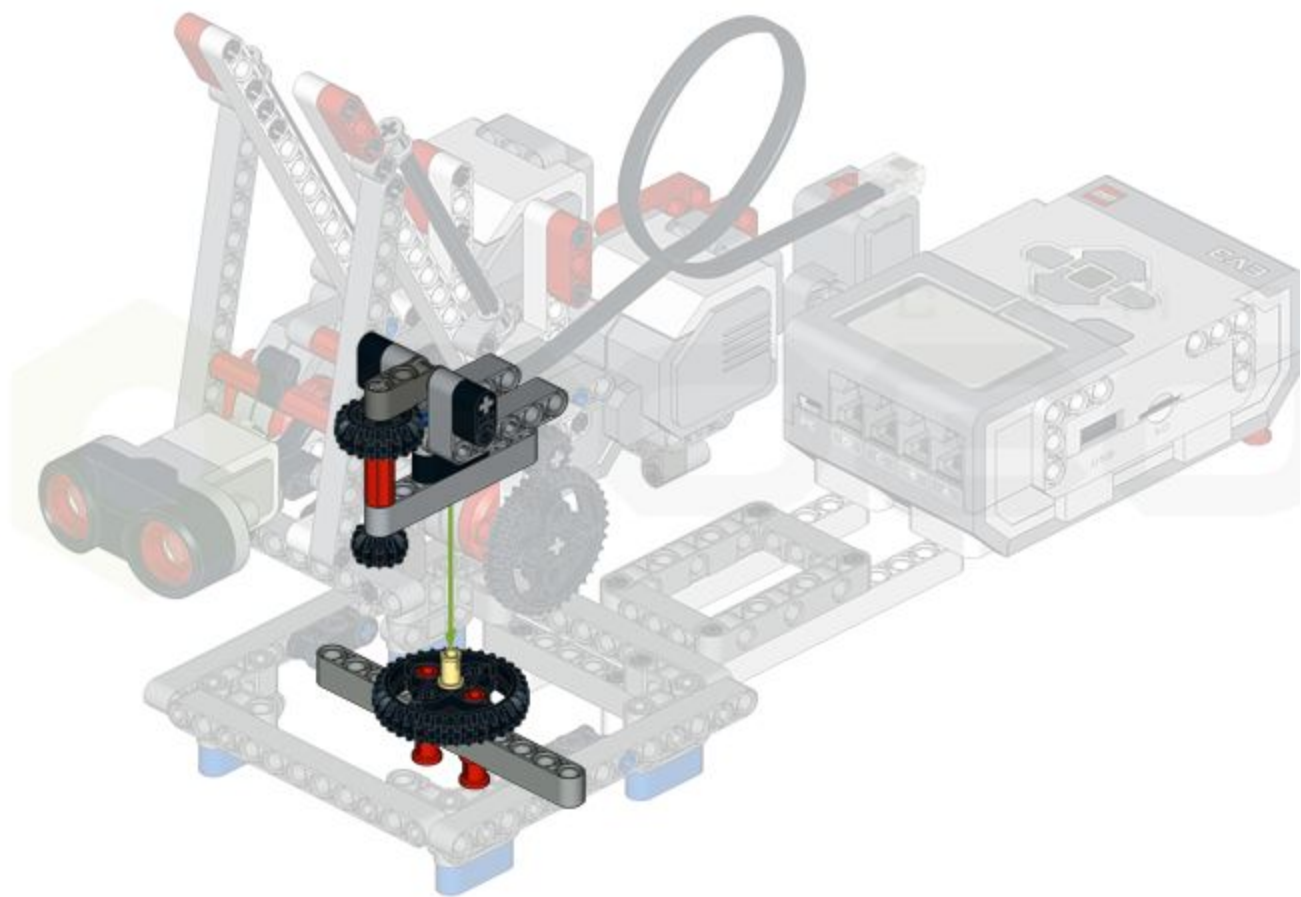




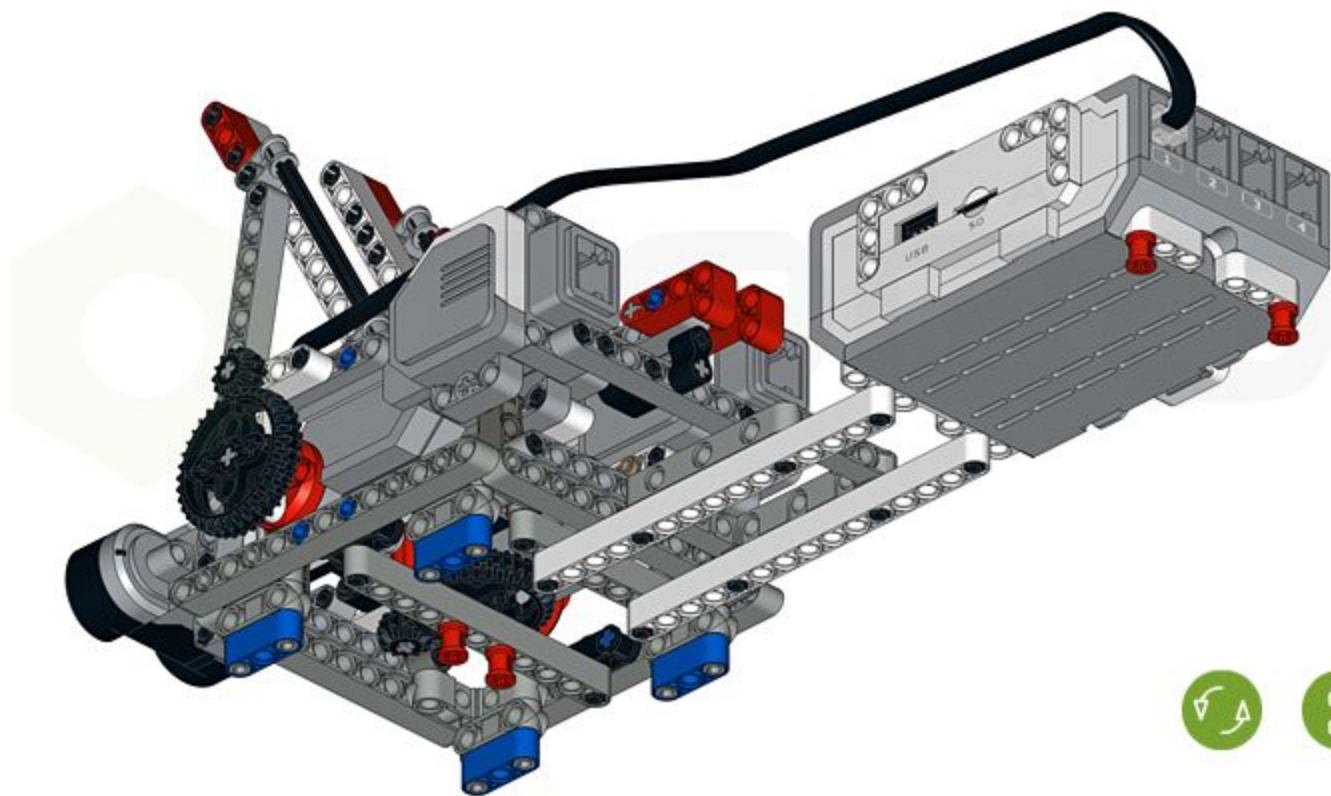




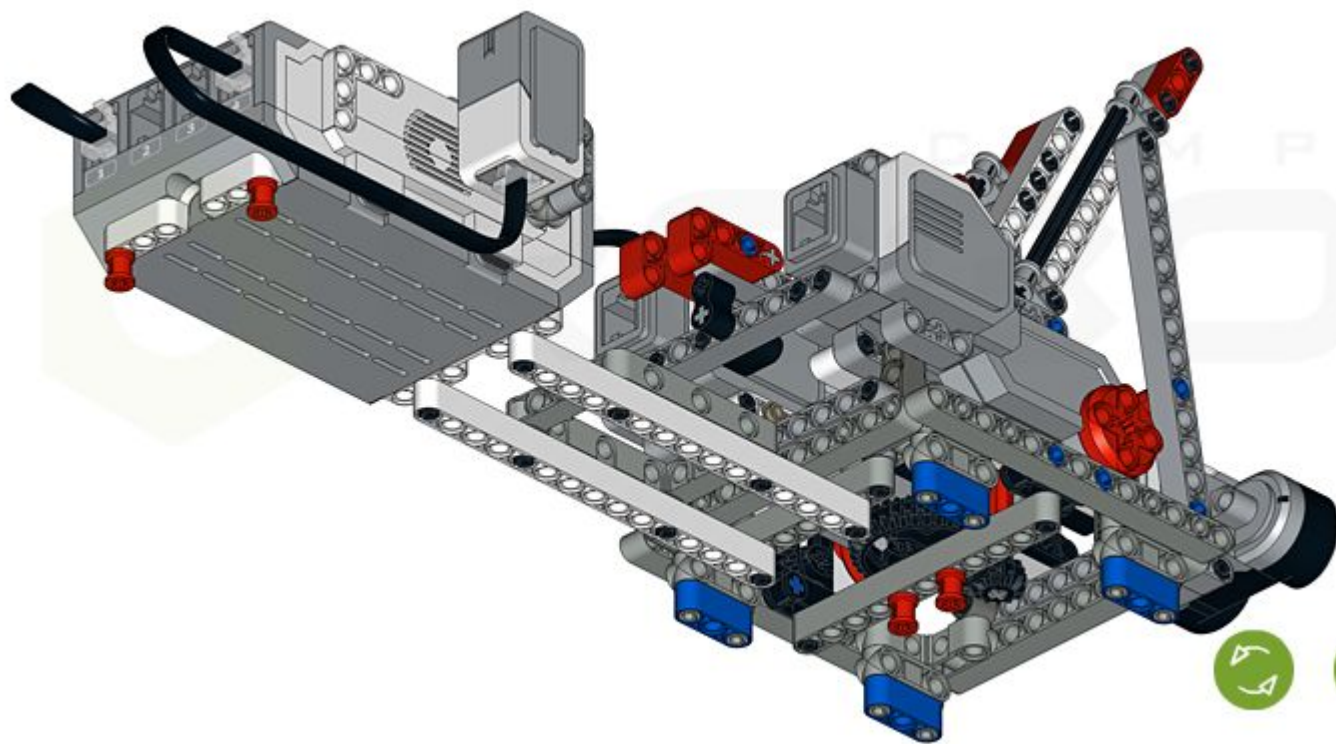


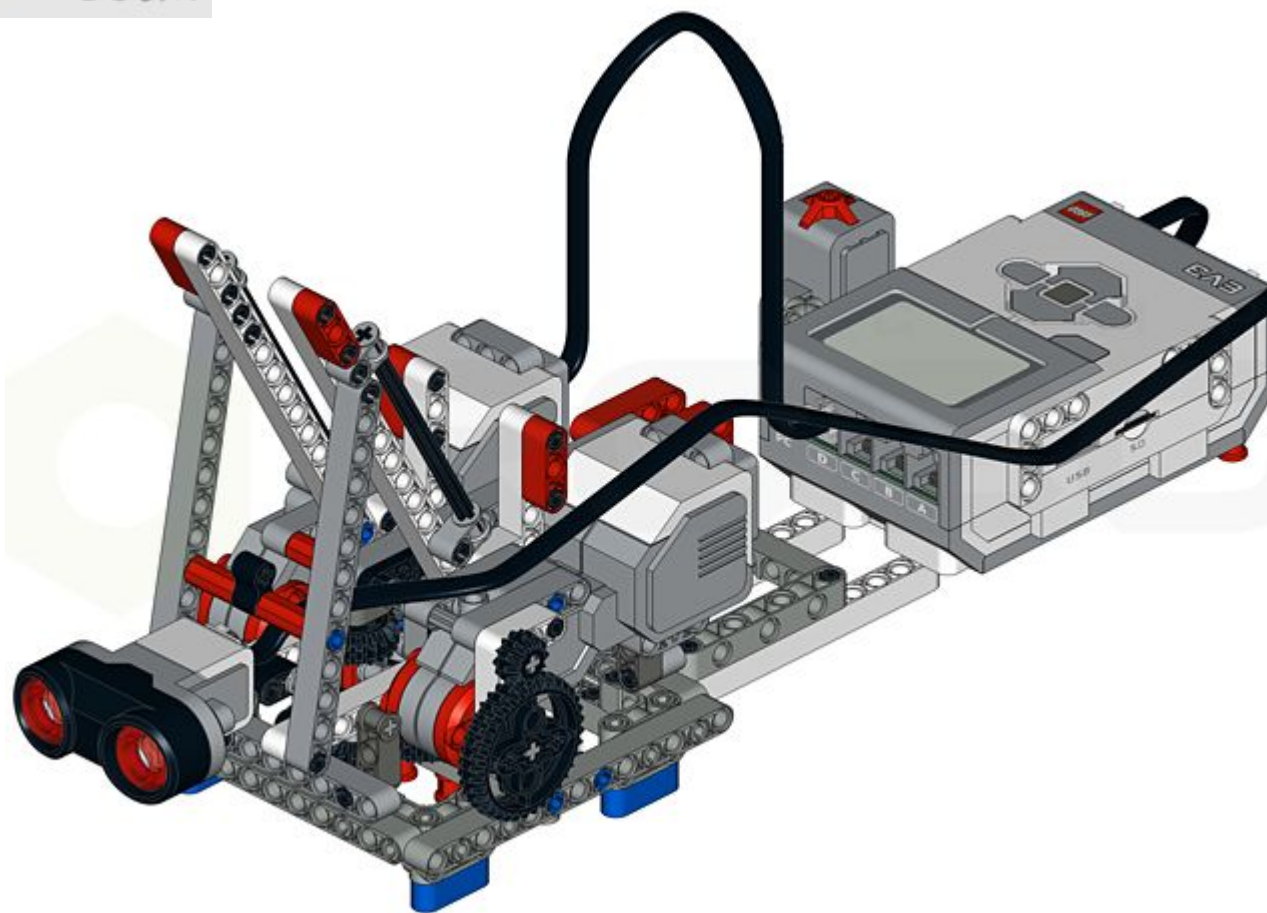


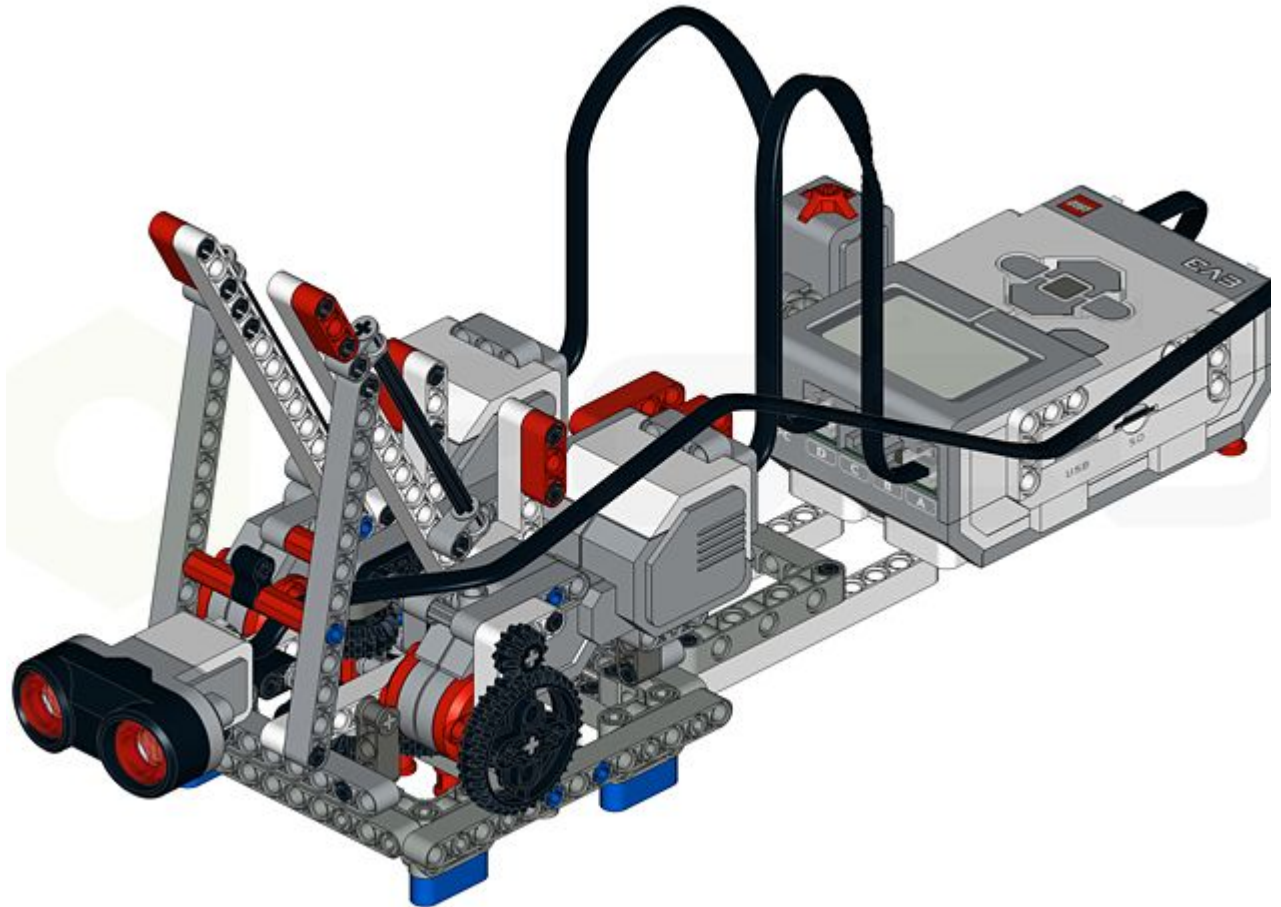


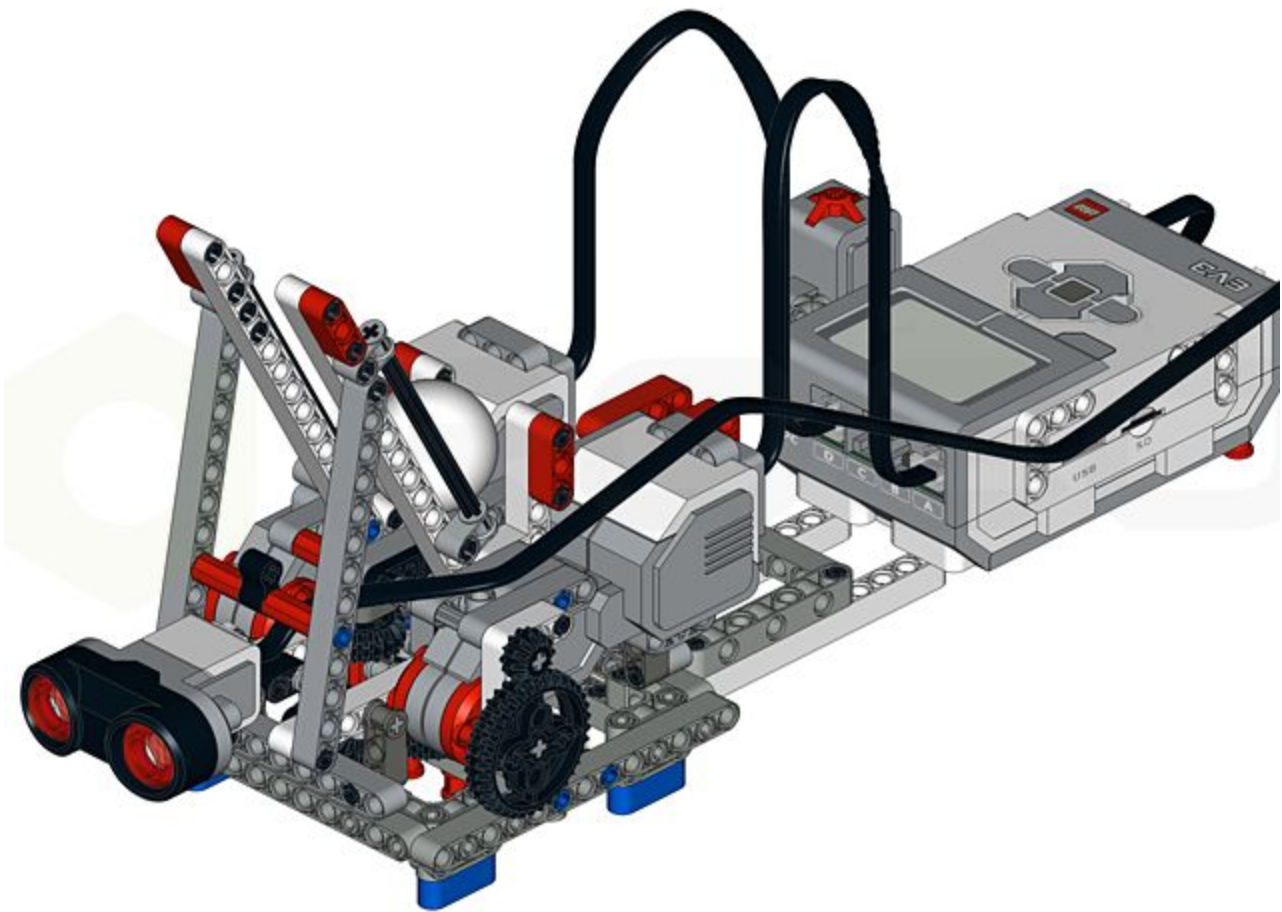












# Задачі

# Программирование

# Задача 1

Задача пусковой установки состоит в том, чтобы бросить мяч для пинг-понга с такой силой, чтобы он попал в коробку. Центральная часть этого робота - вращающаяся башня, контроль положения запрограммируйте с помощью кнопок на кирпиче EV3. Установка оснащена датчиком, который может измерять расстояние (выводить на экран) между башней и коробкой, которое является нашей целью. Датчик касания играет роль триггера, запускающего мяч.

## Задача 2

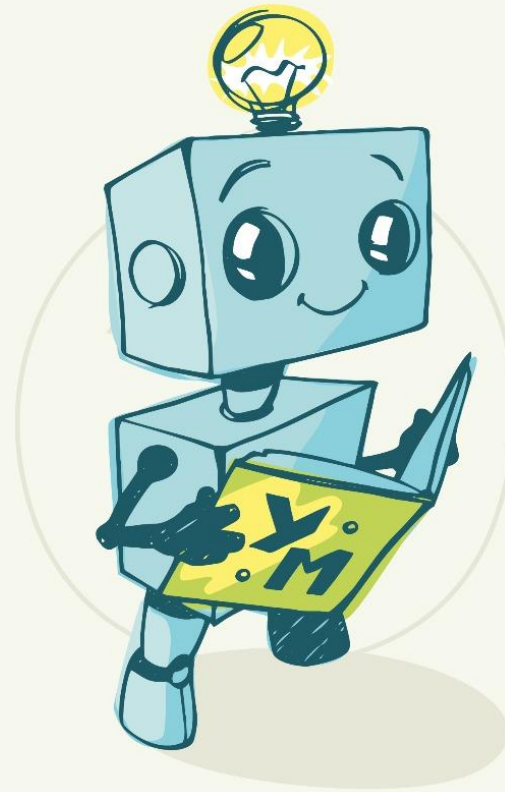
Дополните программу, что бы можно было изменять силу удара с помощью кнопок на контроллере.



## Задача 3

Дополните программу, что бы робот считывал расстояние до цели и сам подбирал силу с которой нужно запускать снаряд.

# Свободное время



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ОБРАЗОВАТЕЛЬНАЯ  
РОБОТОТЕХНИКА