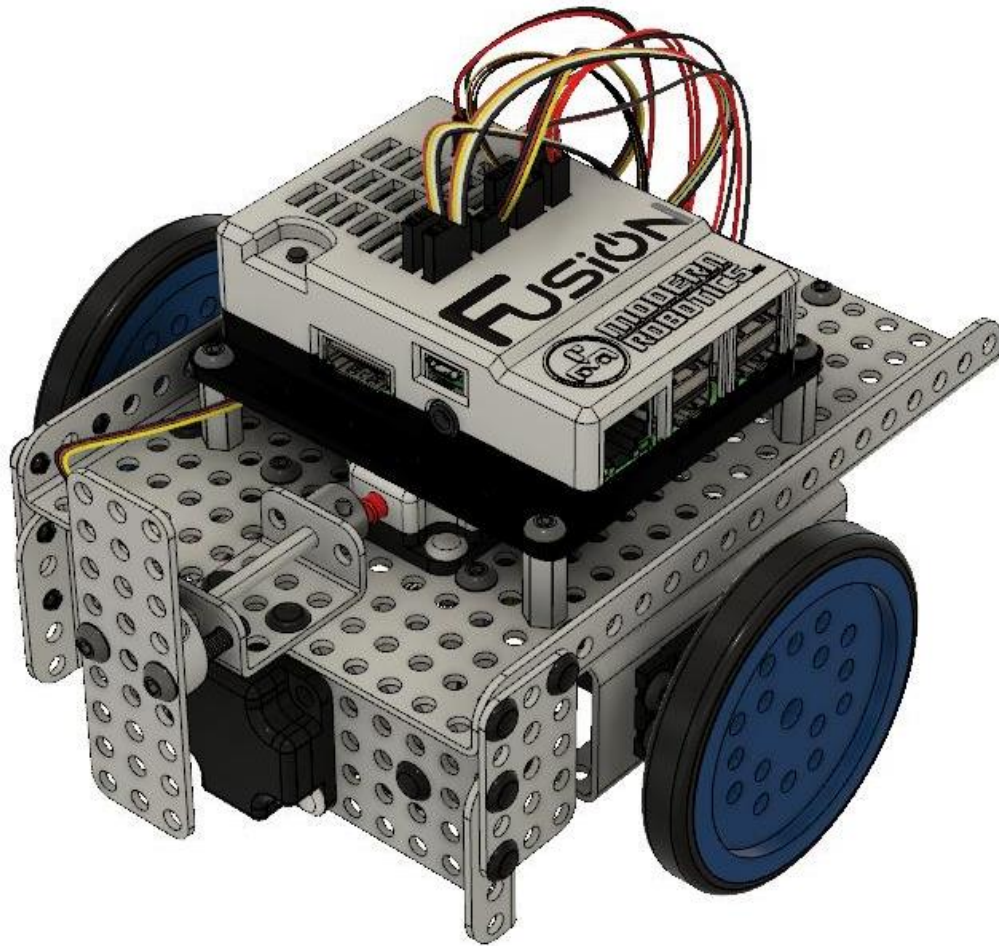
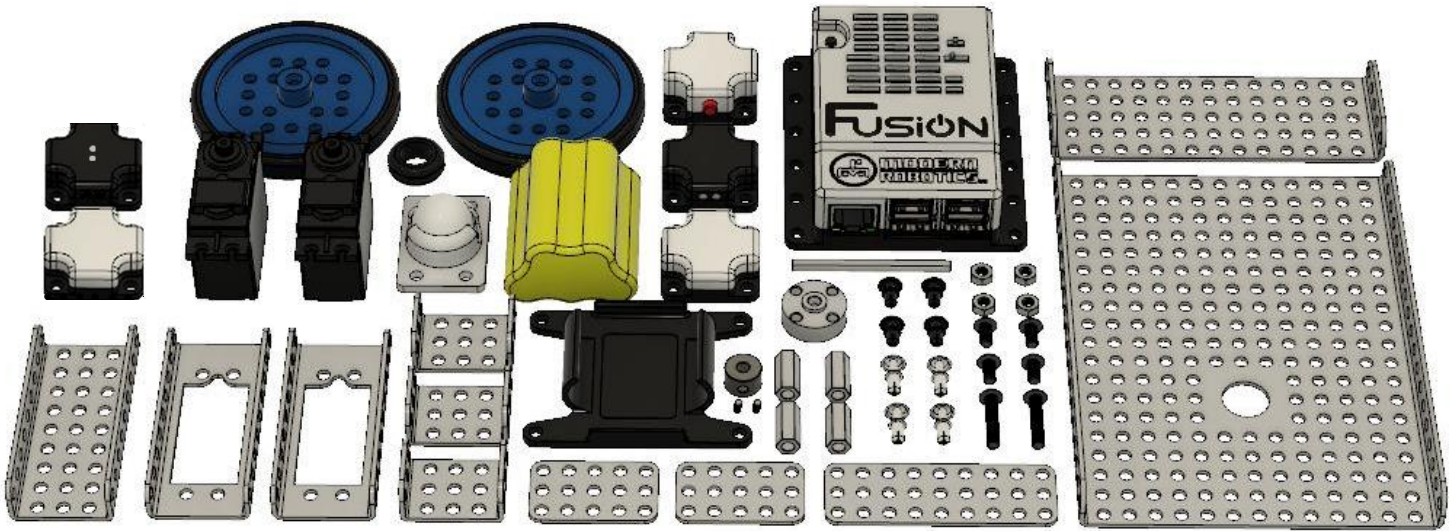


# Mimio MyBot Planetary Exploration Kit Building Instructions





## **Planetary Exploration Kit Build Instructions**

Use these step-by-step instructions to assemble the **MyBot Planetary Exploration Kit** robot from the components shown above (and detailed on the following pages).

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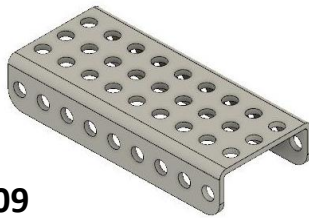
Note: Specifications listed are subject to change without notice.

# Illustrated List of Components Needed

**x2**  
**04-0305**  
**3x5 Gusset Plate**



**x1**  
**06-0009**  
**9 Hole C Shaped Beam**



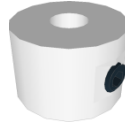
**x20**  
**11-4502**  
**M4 Hex Nut**



**x1**  
**04-0309**  
**3x9 Gusset Plate**



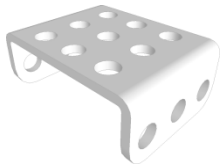
**x1**  
**08-0019**  
**Axle Collar**



**x16**  
**11-6001**  
**Quick Connect Short**



**x3**  
**05-0303**  
**3x3 Flanged Plate**



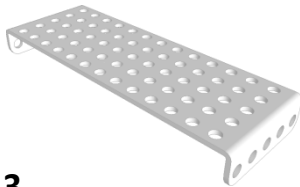
**x2**  
**(included with Collar and Hub)**  
**Axle Collar/Hub Set Screw**



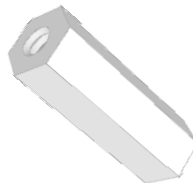
**x10**  
**11-6002**  
**Quick Connect Medium**



**x1**  
**05-0513**  
**5x13 Flanged Plate**



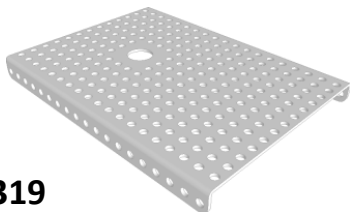
**x4**  
**09-0004**  
**32mm Standoffs**



**x1**  
**45-0300**  
**Battery Pack Mount**



**x1**  
**06-1319**  
**13x19 Flanged Plate**



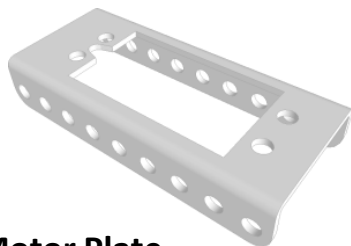
**x1**  
**10-0052**  
**52mm D-Shaft**



**x1**  
**45-1007**  
**Push-In Grommet**



**x2**  
**07-0008**  
**Servo/Motor Plate**



**x28**  
**11-4108**  
**M4 x 8mm Screw**



**x2**  
**45-1010**  
**DC Motor**



**x1**  
**08-0007**  
**Axle Hub**



**x2**  
**11-4116**  
**M4 x 16mm Screw**



**x1**  
**45-1300**  
**6V Battery Pack**



# Illustrated List of Components Needed



x1  
45-2006  
Optical Distance Sensor



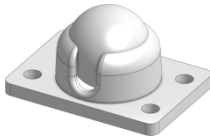
X1  
45-2018  
Color Sensor



x1  
45-2007  
Touch Sensor



X1  
45-2020  
Magnet Sensor



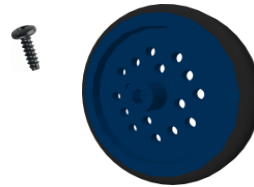
x1  
45-2100  
19mm Ball Caster



x1  
45-2005  
Integrating Gyro



x1  
52-2022  
Fusion Controller



x2  
45-1400  
Wheel and Screw



X1  
15-0016  
Box for Spare Fasteners

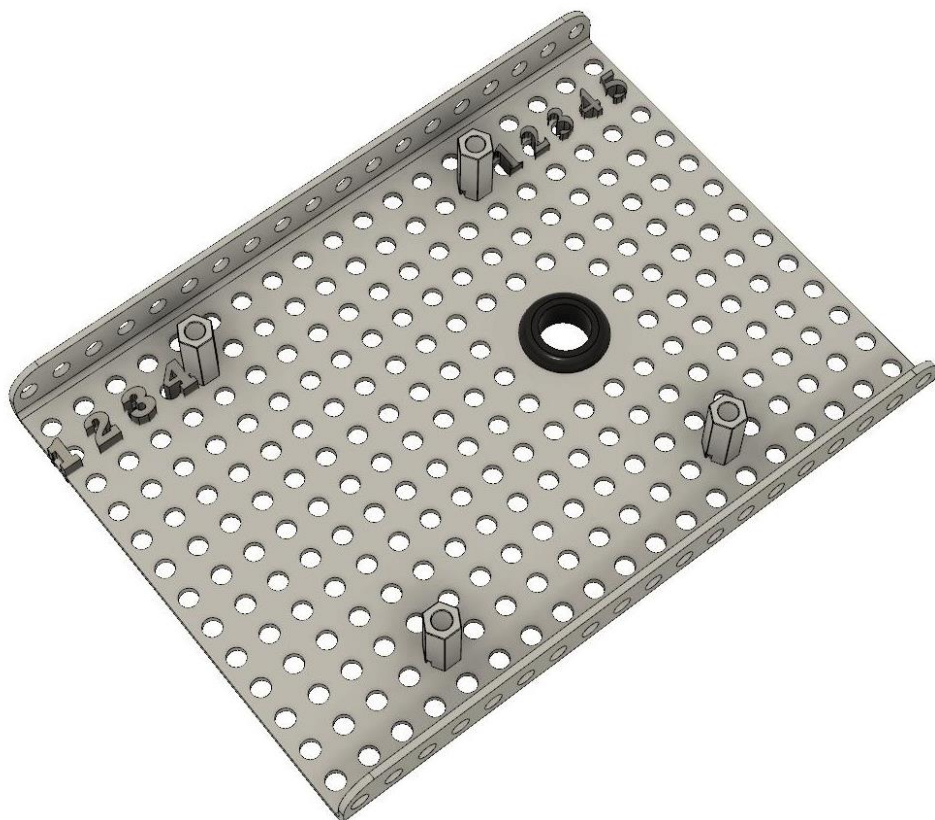
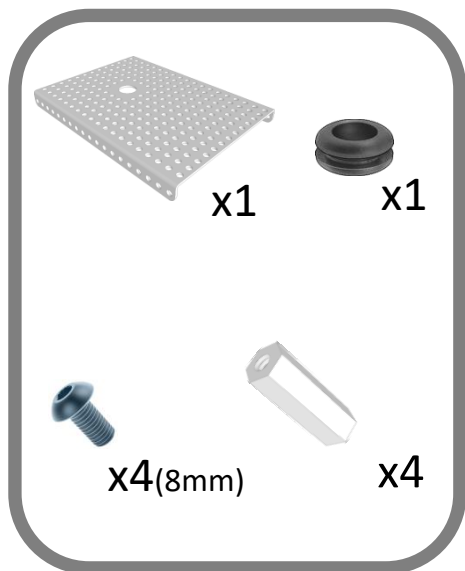
***TIP: Use this box to store any extra fasteners and small parts. You can use them with future activities and configurations for your MyBot Robot!***



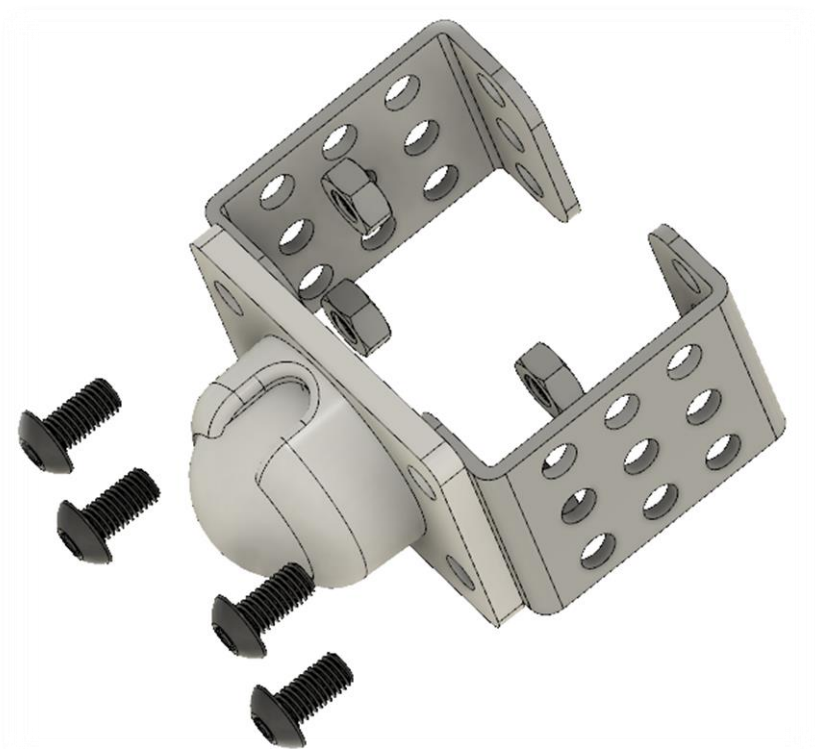
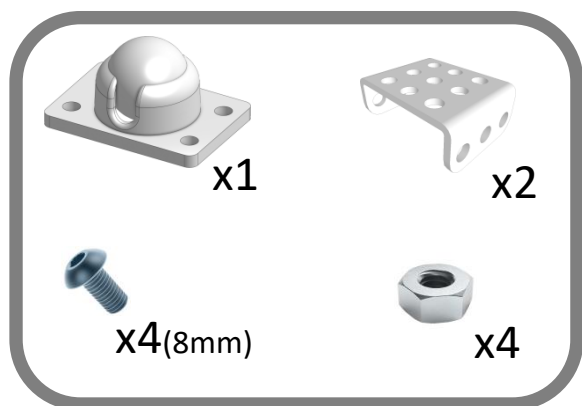
X1  
50-0076  
Tool Kit



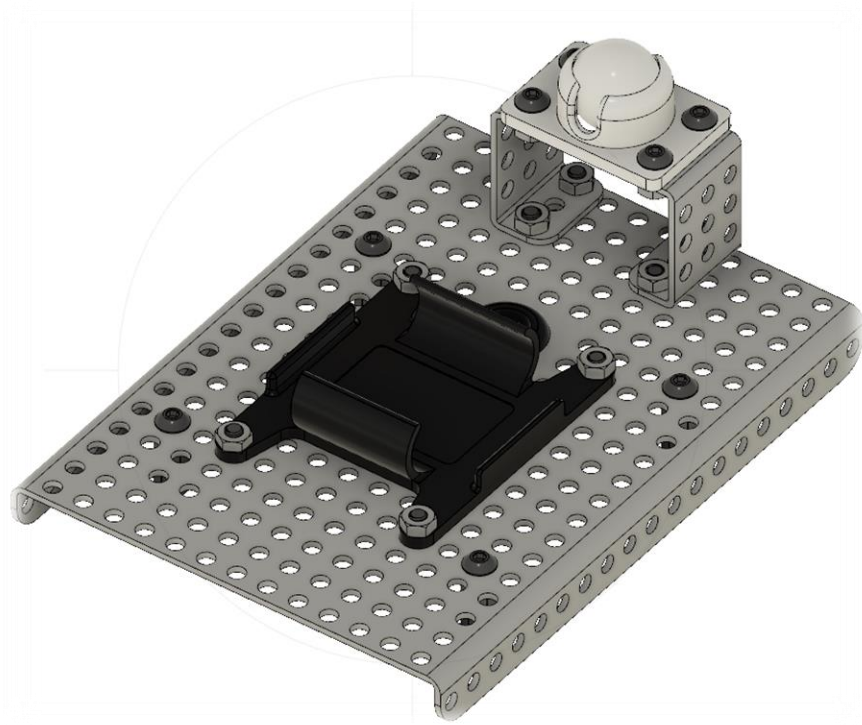
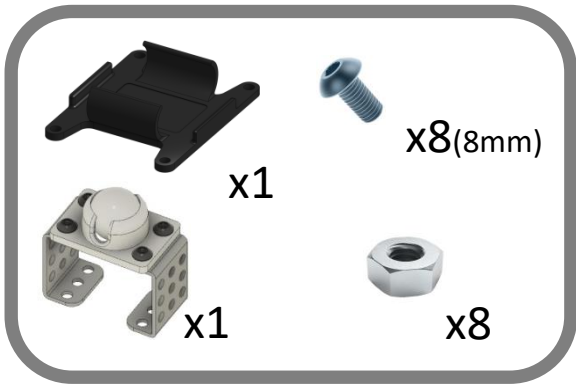
1



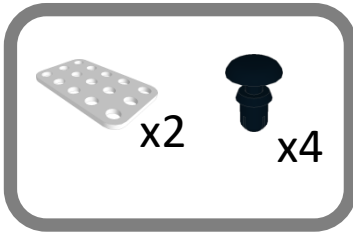
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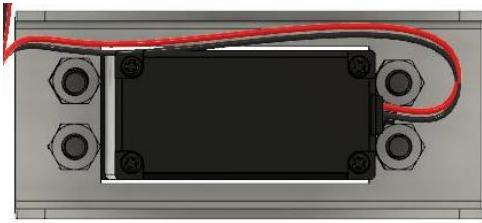
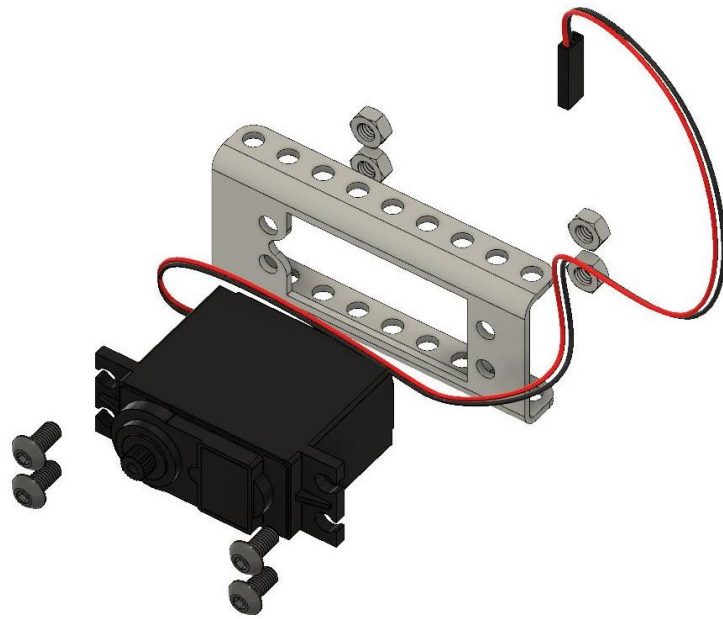
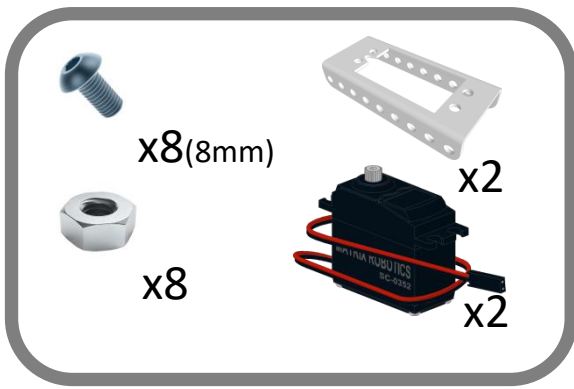
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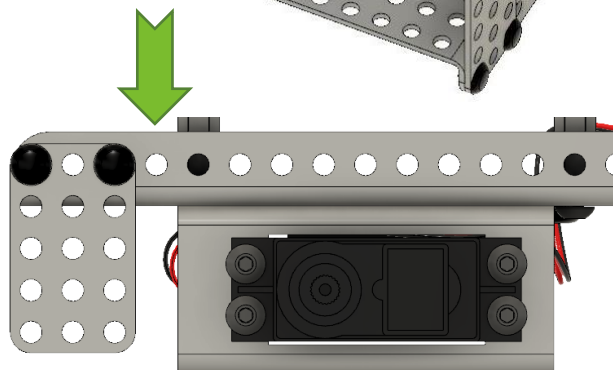
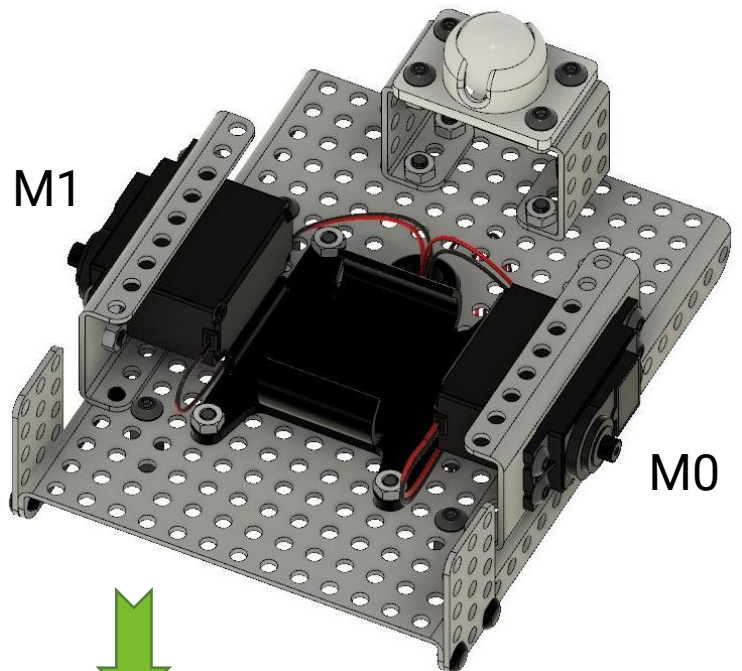
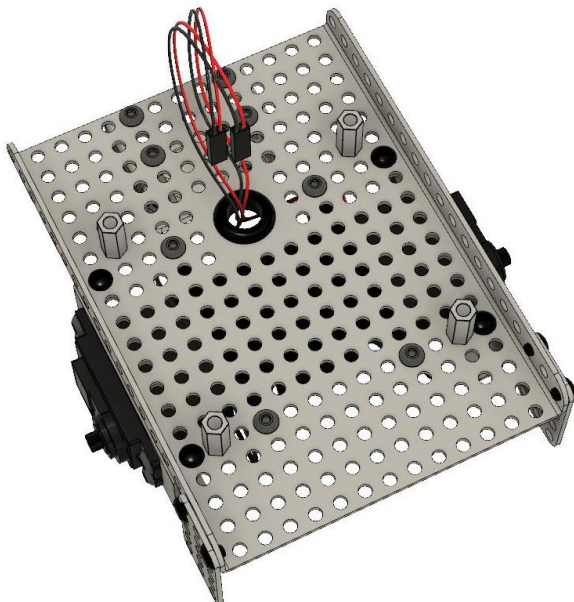
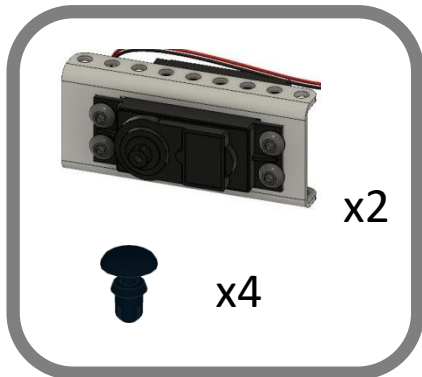
4



5

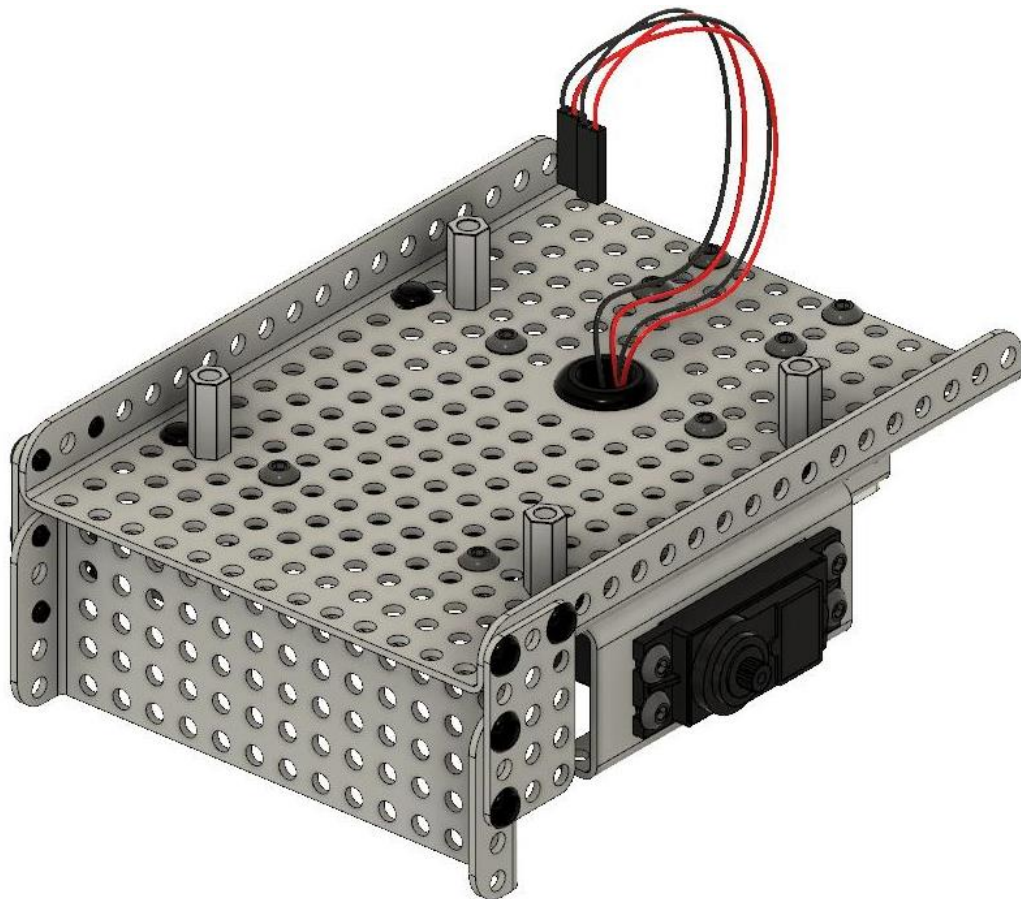
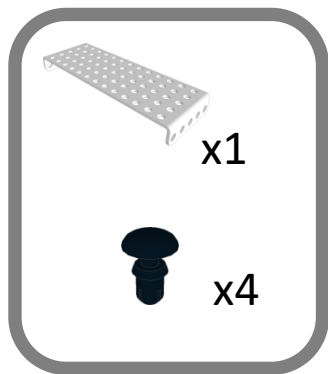


6

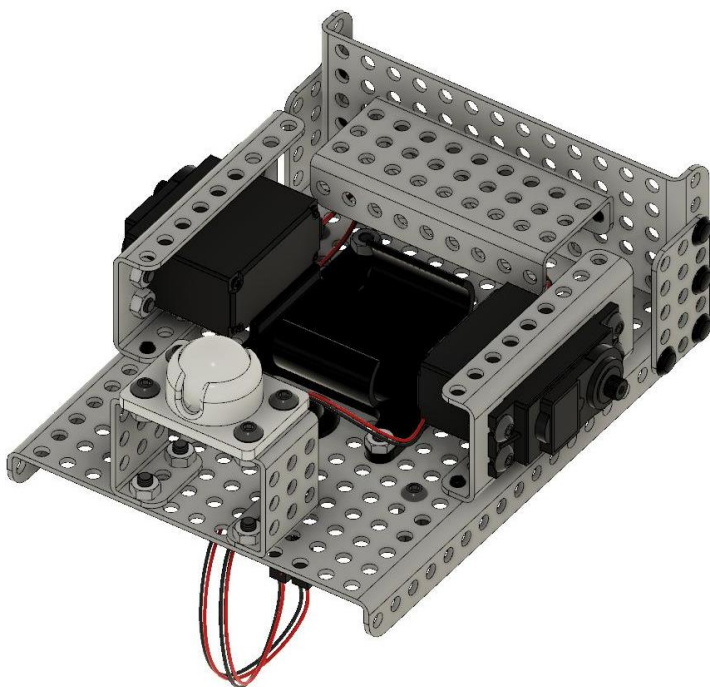
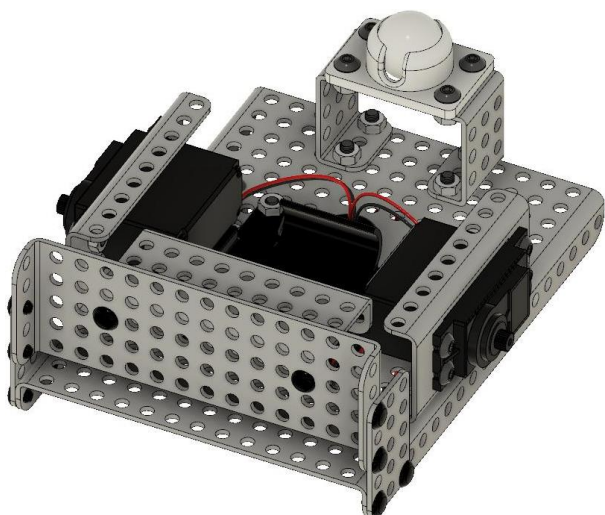
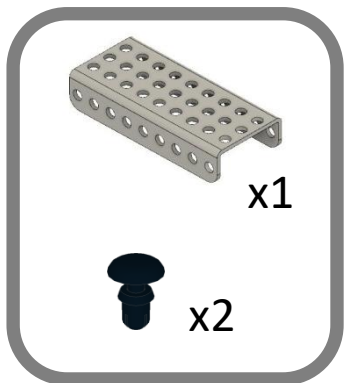




7

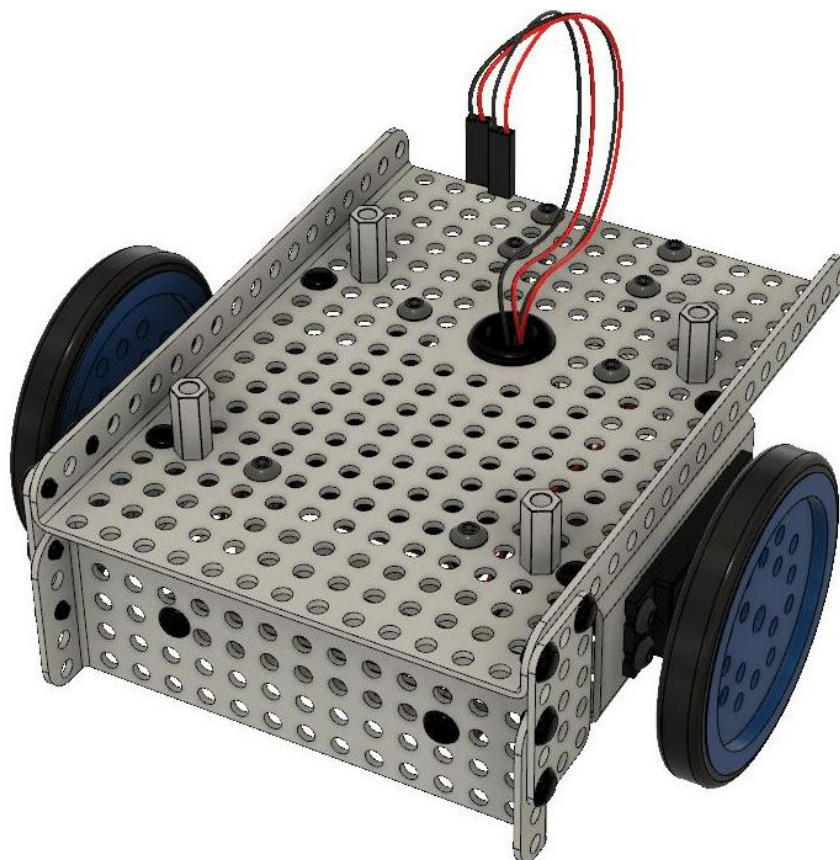
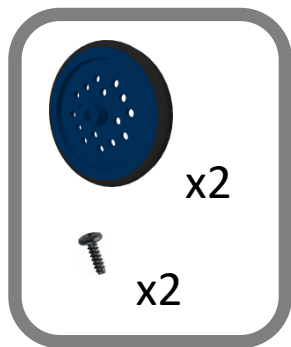


8

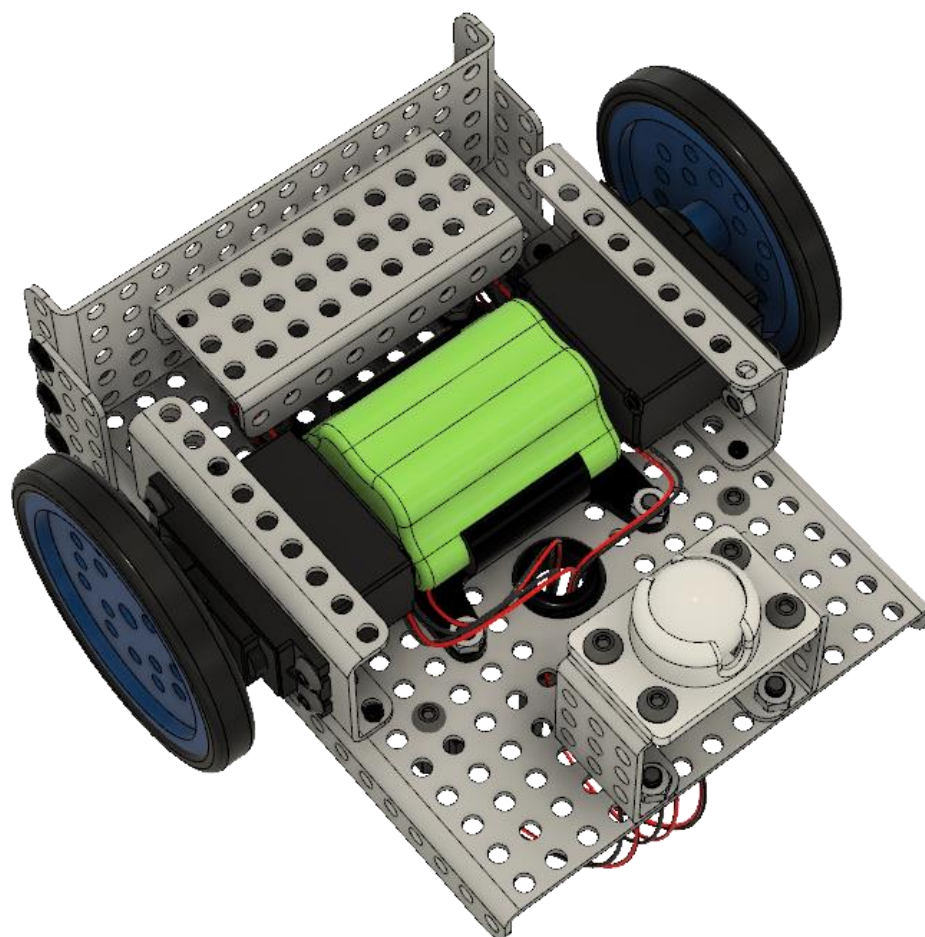
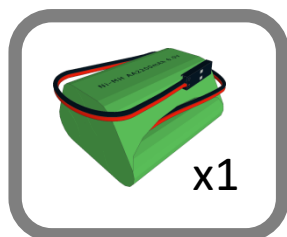




9

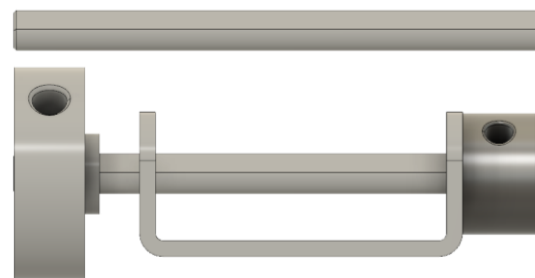
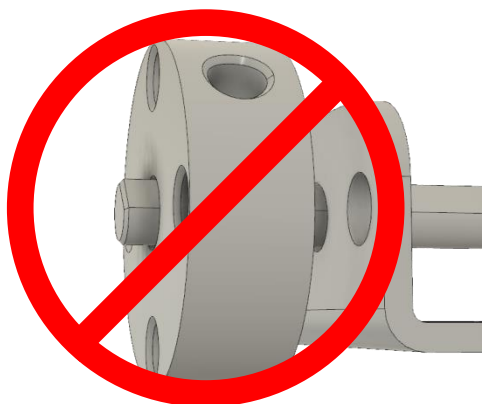
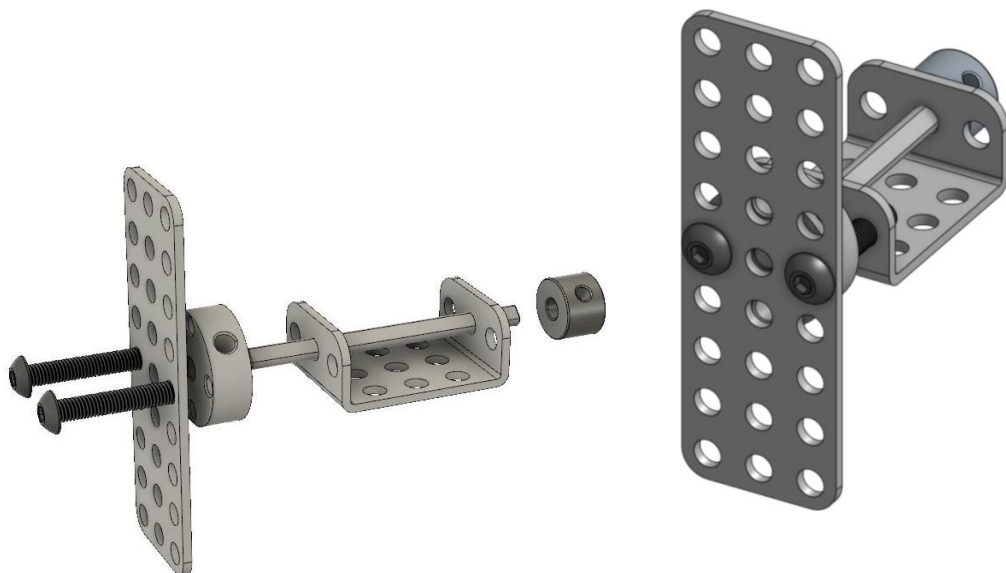



10




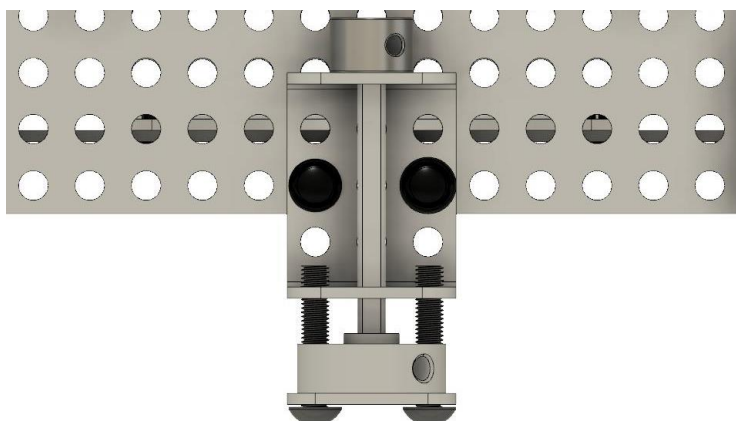
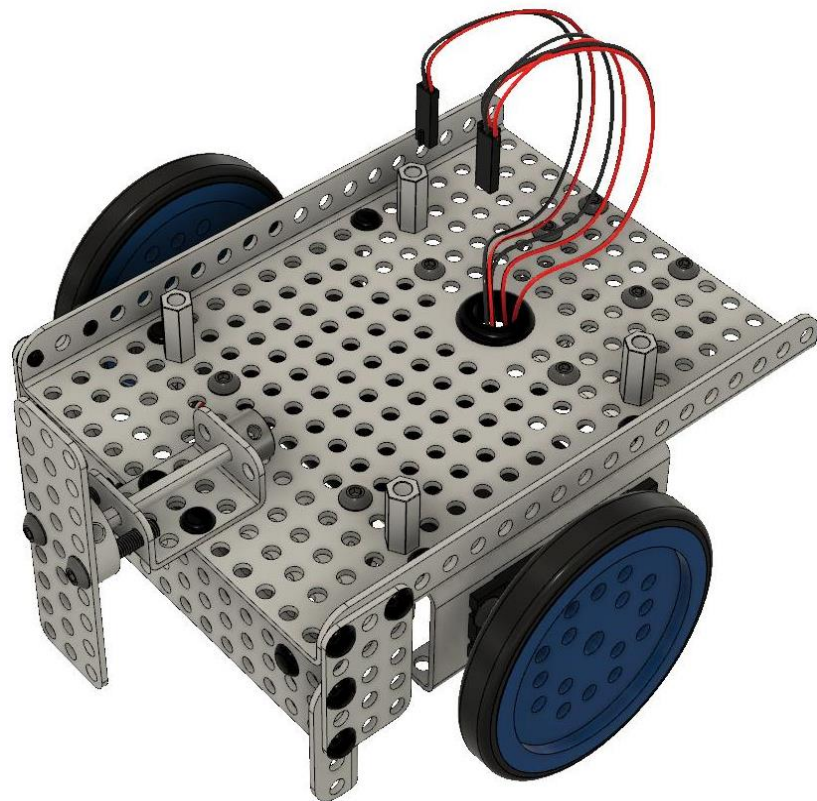
Exploded view diagram showing the components and their quantities:

- Top plate: x1
- Bottom plate: x1
- Top cap: x1
- Bottom cap: x1
- Long screw: x1
- Short screw: x2
- Long screw: x2 (16mm)



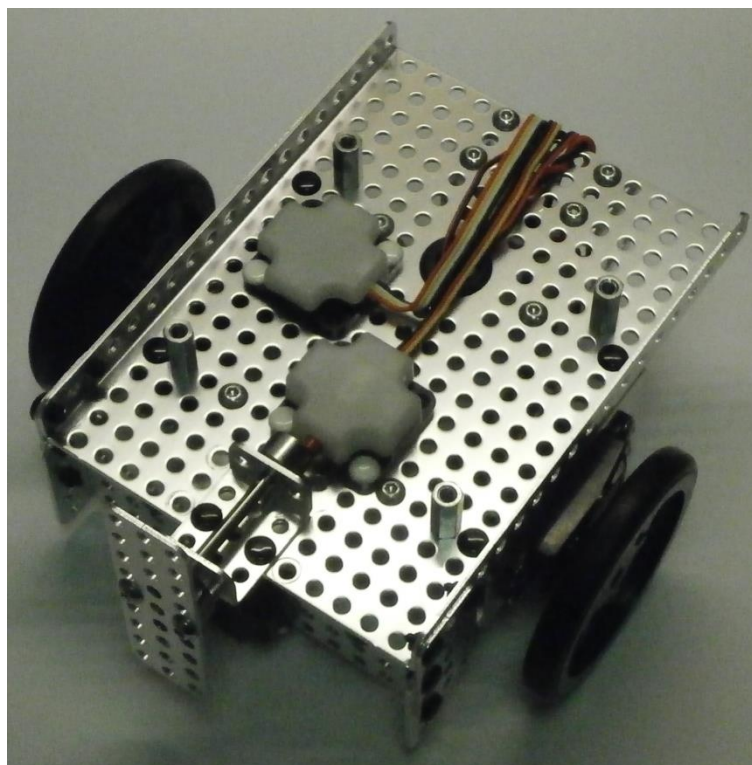
 x1

 x2

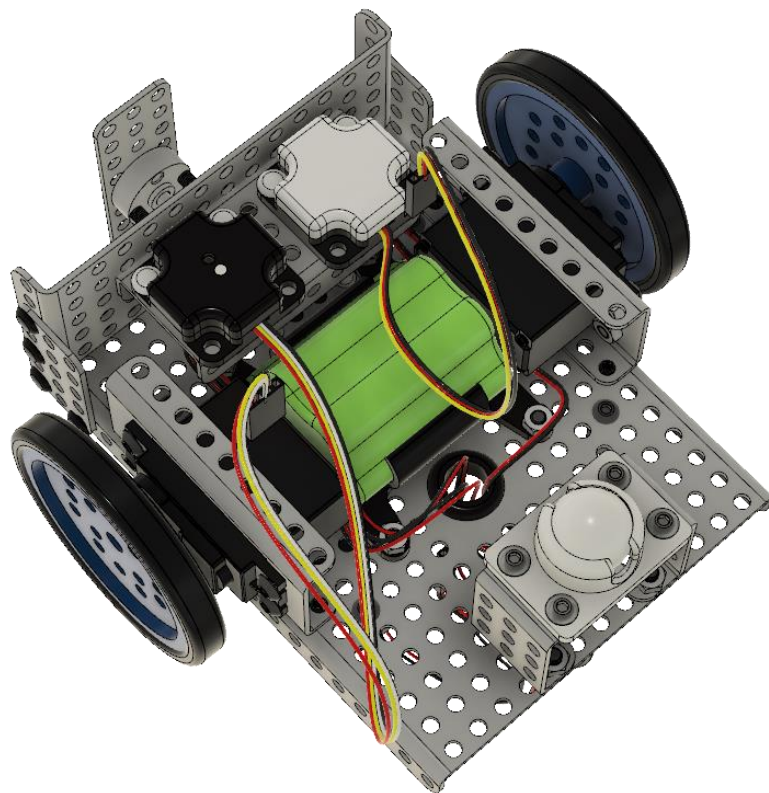
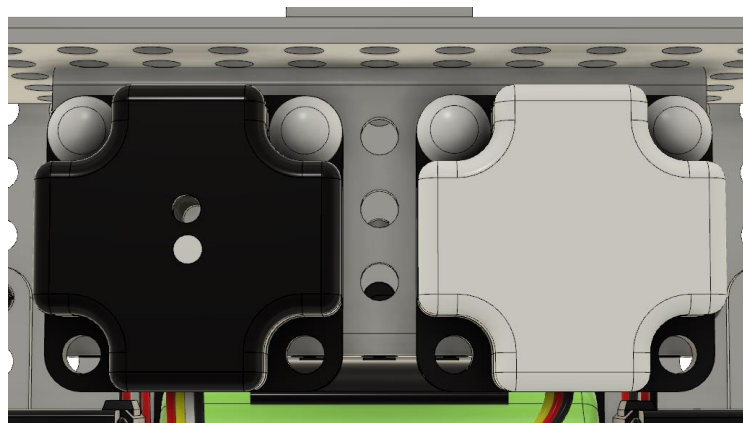
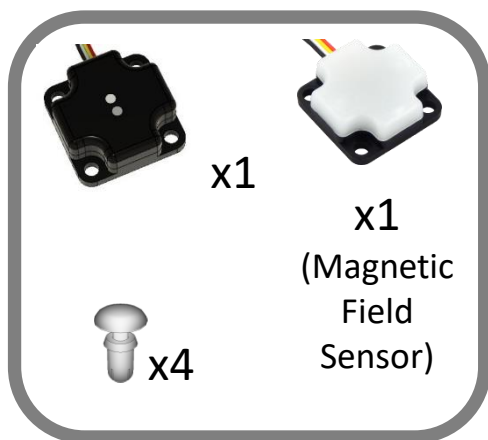




# 13

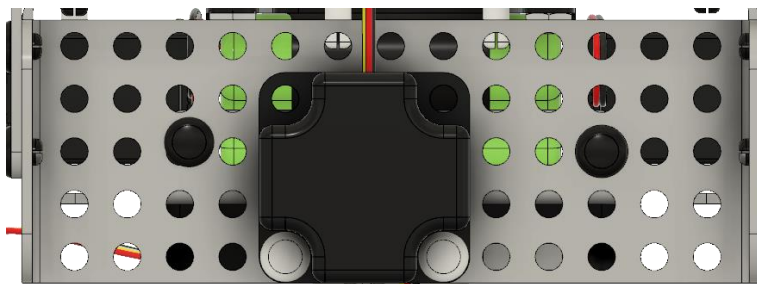
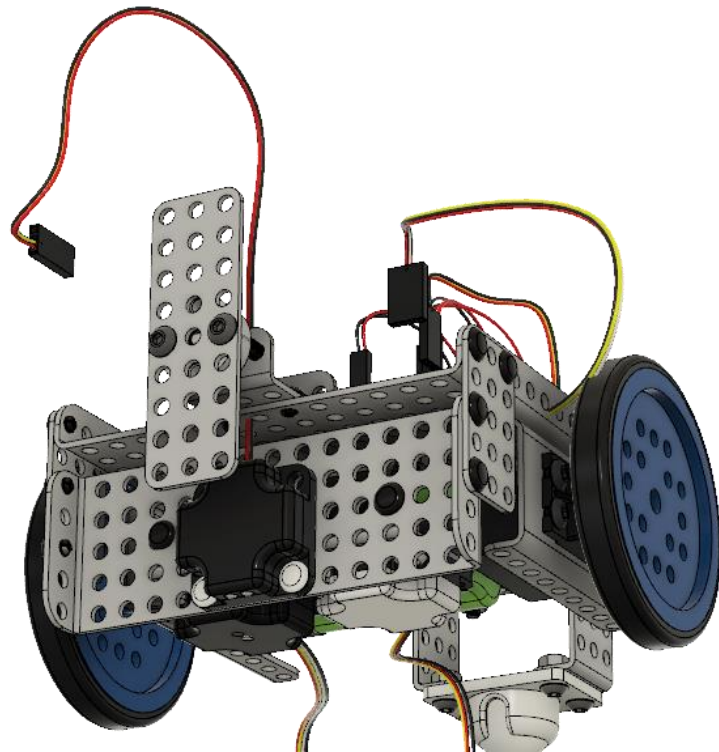


# 14

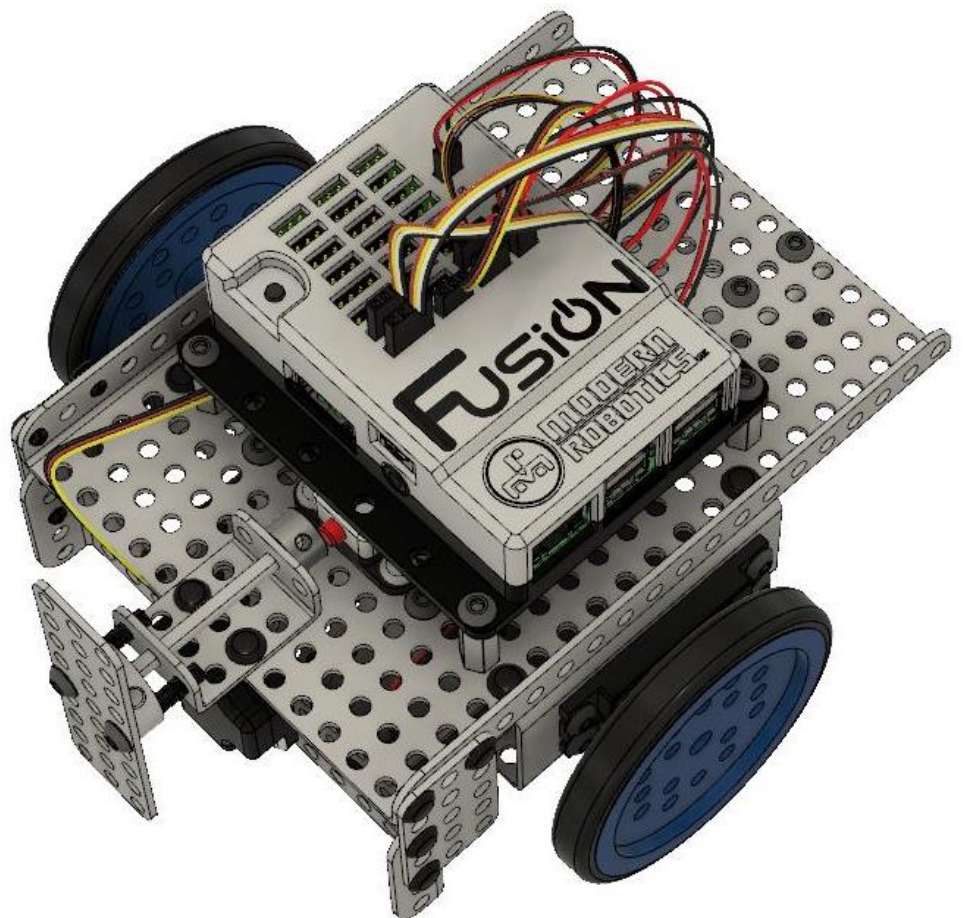
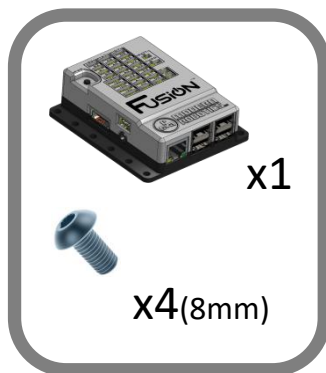




15



16



# 17 – Wiring



## Optical Distance Sensor



# A0



## Magnetic Field Sensor



# A1



## Touch Sensor



**D0**



## Color Sensor



## I2C



## Integrating Gyro



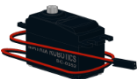
## I2C



## Left Motor



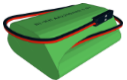
## M1



## Right Motor



MO



## Battery



# BATT

