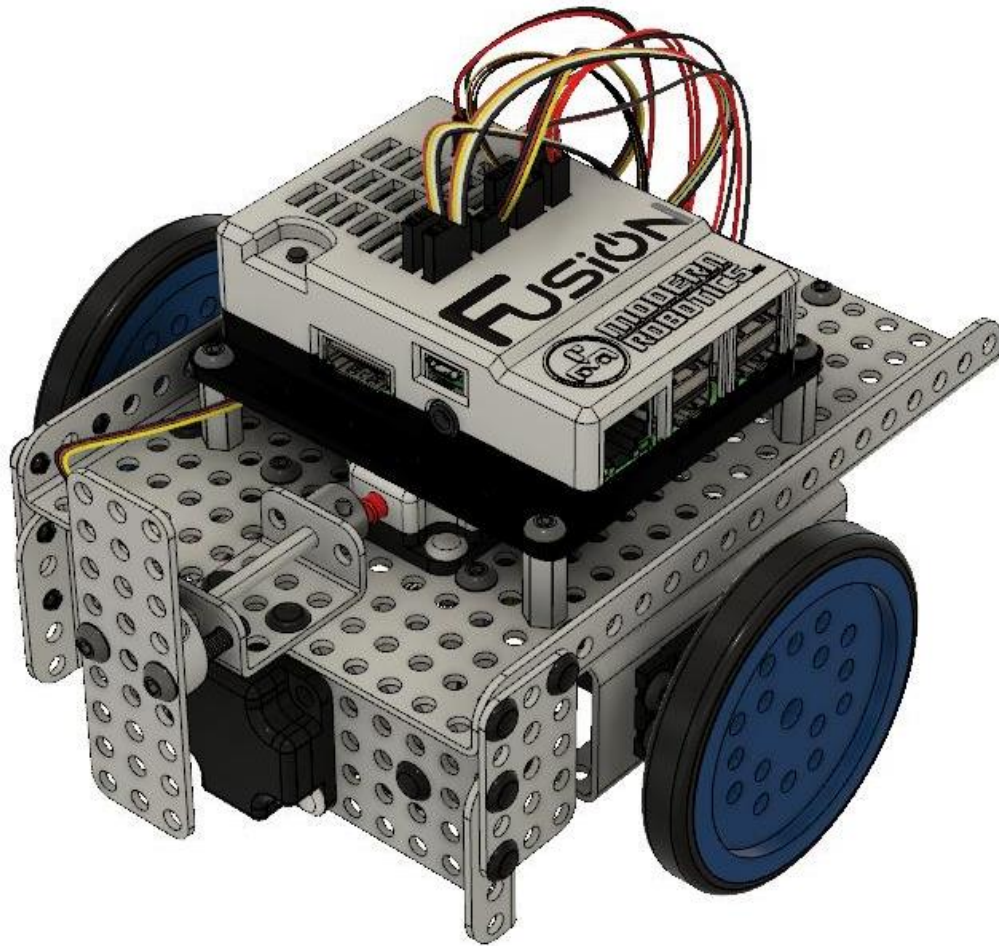
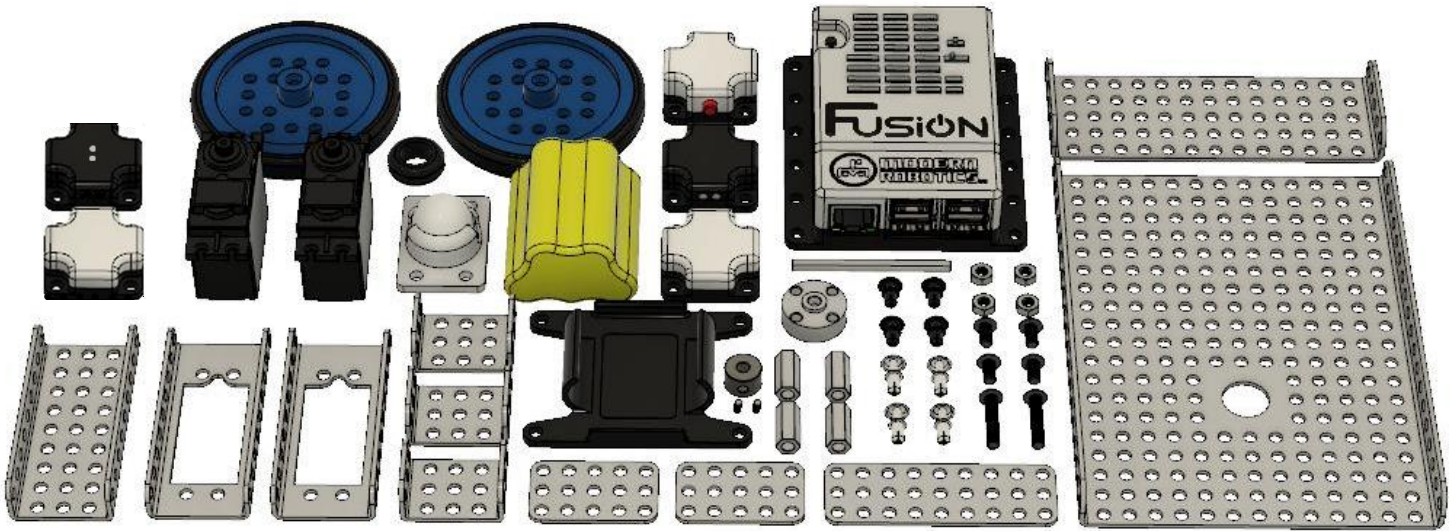


# Mimio MyBot Planetary Exploration Kit Building Instructions





## **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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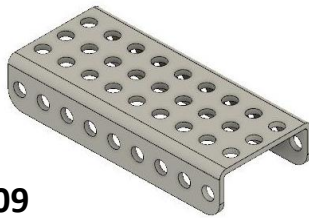
Note: Specifications listed are subject to change without notice.

# Illustrated List of Components Needed

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



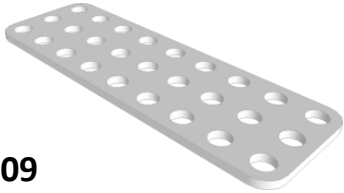
**x1**  
**06-0009**  
**9 Hole C Shaped Beam**



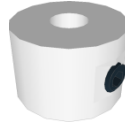
**x20**  
**11-4502**  
**M4 Hex Nut**



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



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



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



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



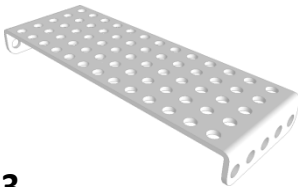
**x2**  
**(included with Collar and Hub)**  
**Axle Collar/Hub Set Screw**



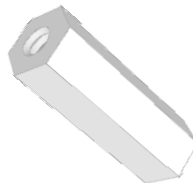
**x10**  
**11-6002**  
**Quick Connect Medium**



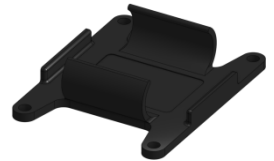
**x1**  
**05-0513**  
**5x13 Flanged Plate**



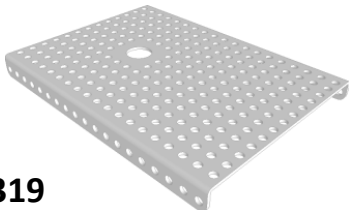
**x4**  
**09-0004**  
**32mm Standoffs**



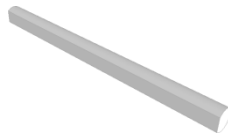
**x1**  
**45-0300**  
**Battery Pack Mount**



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



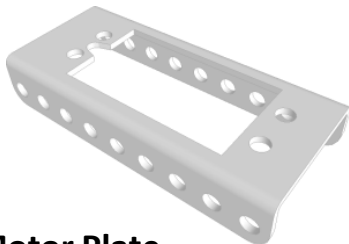
**x1**  
**10-0052**  
**52mm D-Shaft**



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



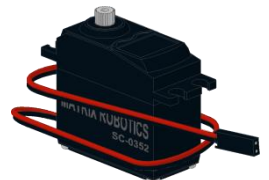
**x2**  
**07-0008**  
**Servo/Motor Plate**



**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



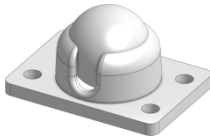
X1  
45-2018  
Color Sensor



x1  
45-2007  
Touch Sensor



X1  
45-2020  
Magnet Sensor



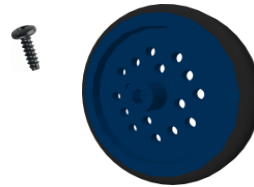
x1  
45-2100  
19mm Ball Caster



x1  
45-2005  
Integrating Gyro



x1  
52-2022  
Fusion Controller



x2  
45-1400  
Wheel and Screw



X1  
15-0016  
Box for Spare Fasteners

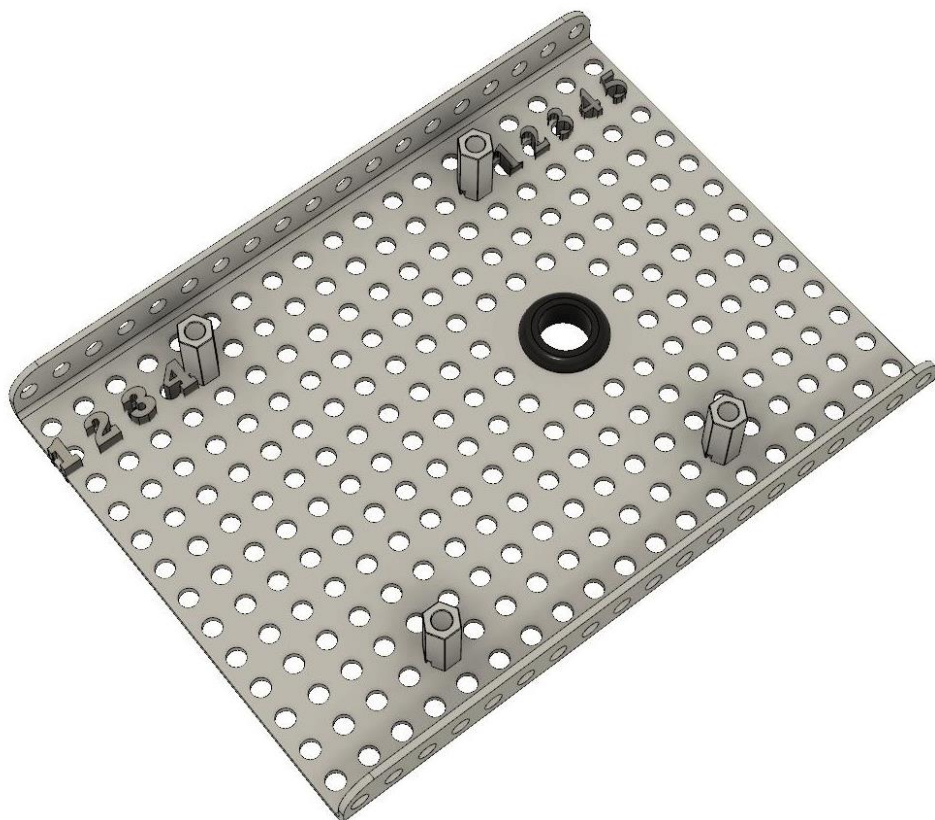
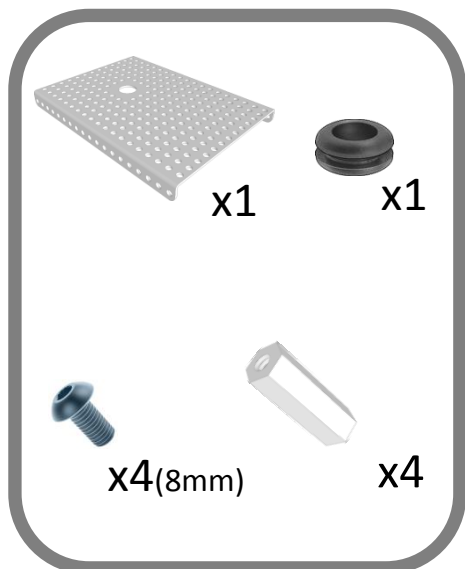
***TIP: Use this box to store any extra fasteners and small parts. You can use them with future activities and configurations for your MyBot Robot!***



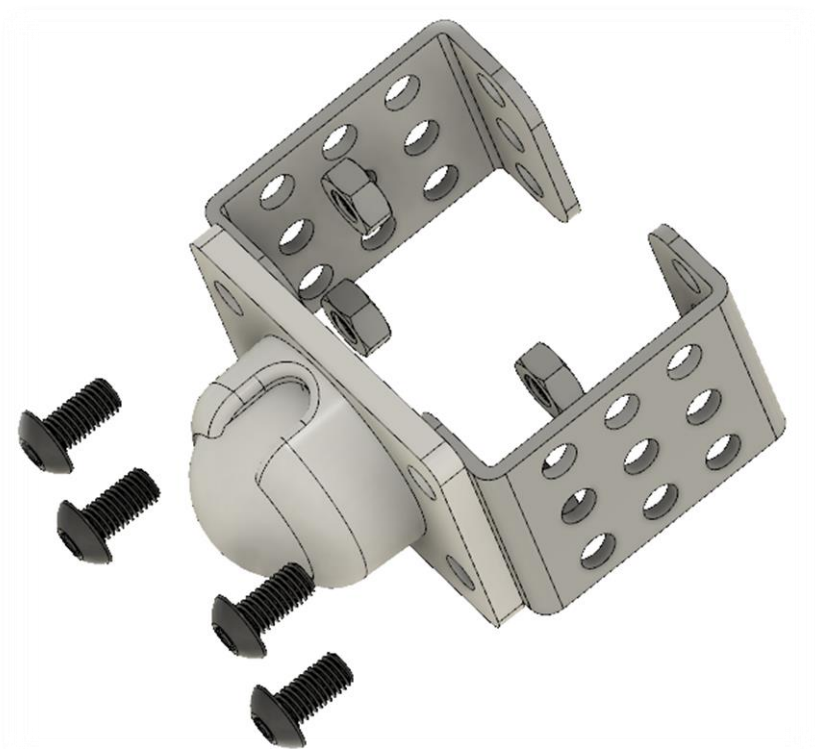
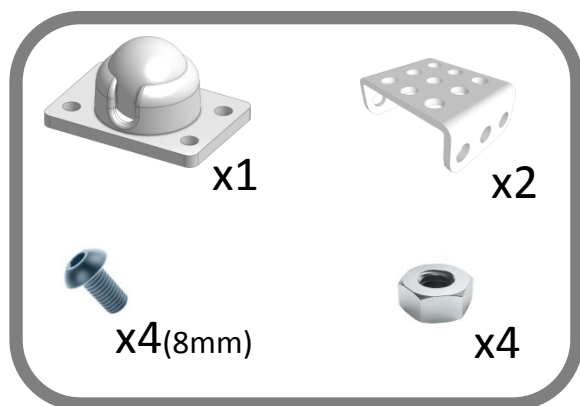
X1  
50-0076  
Tool Kit



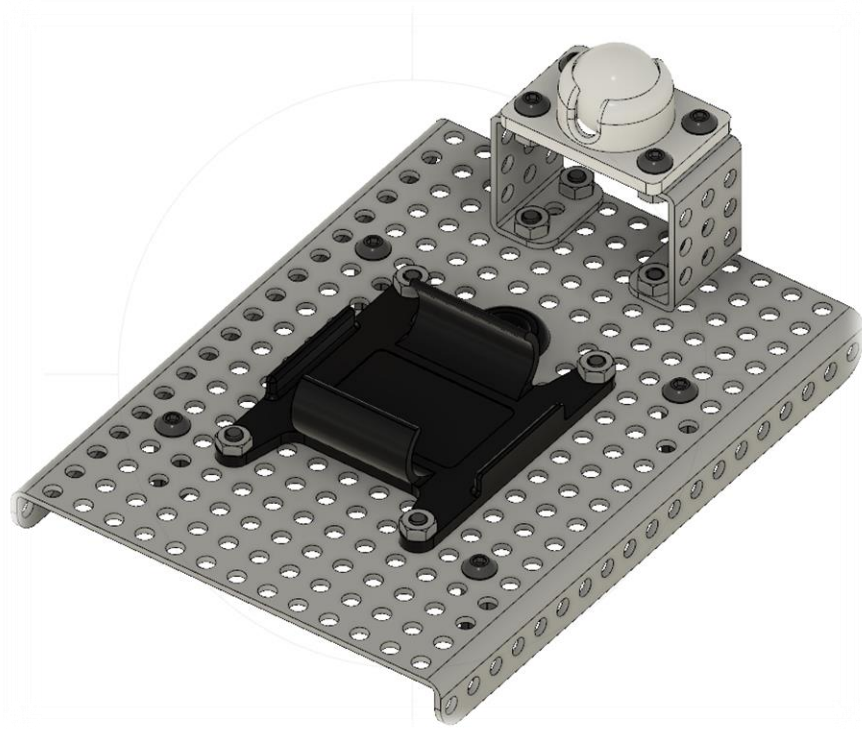
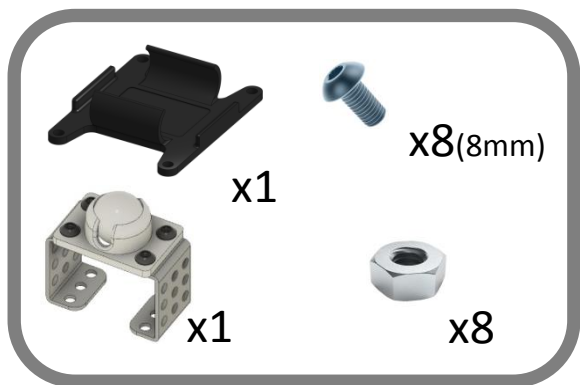
1



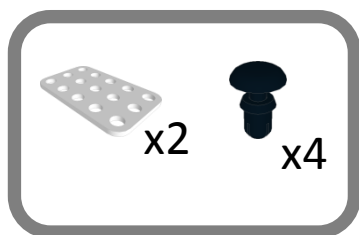
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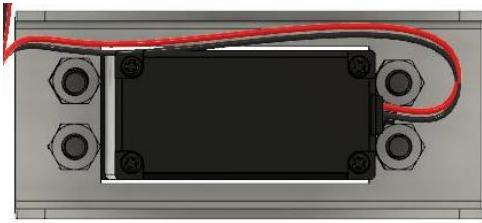
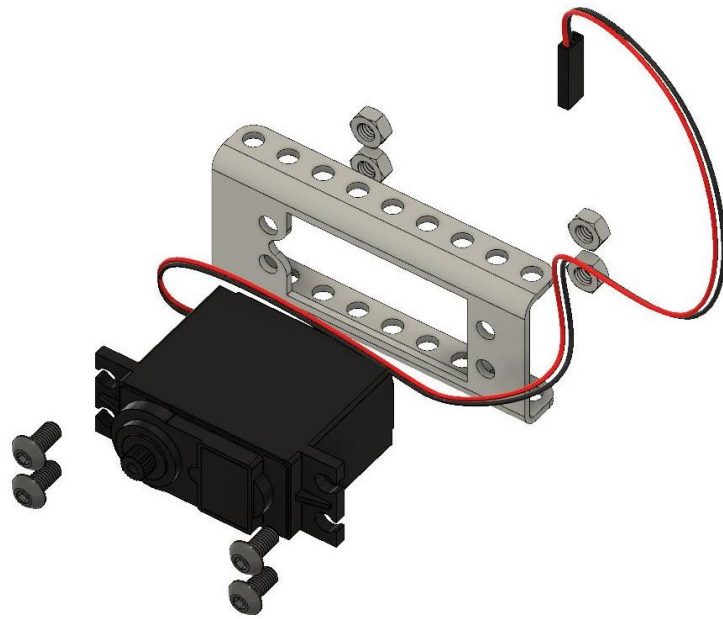
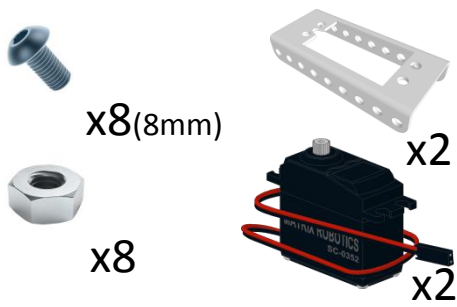
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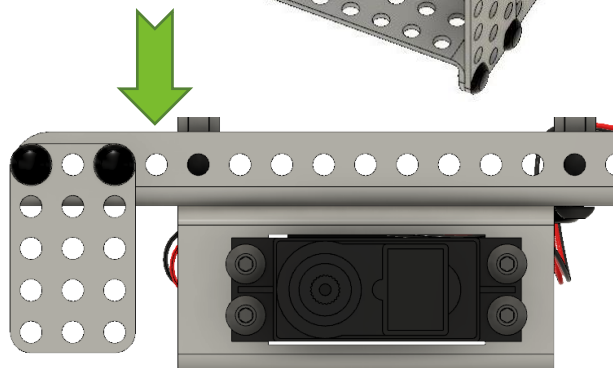
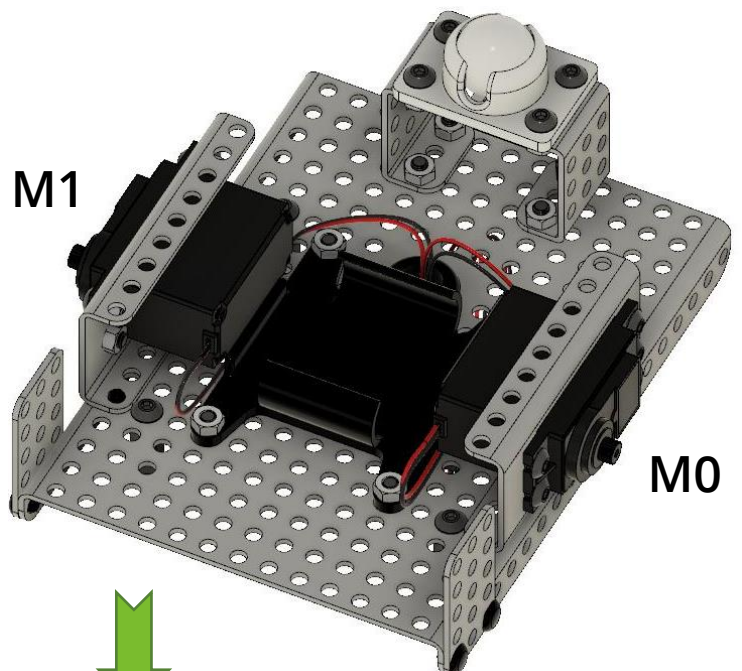
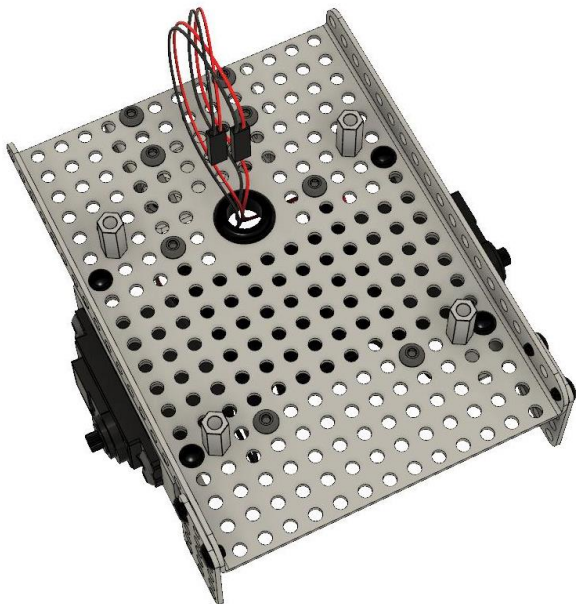
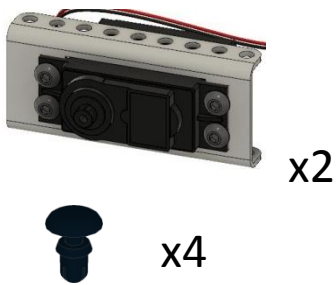
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5

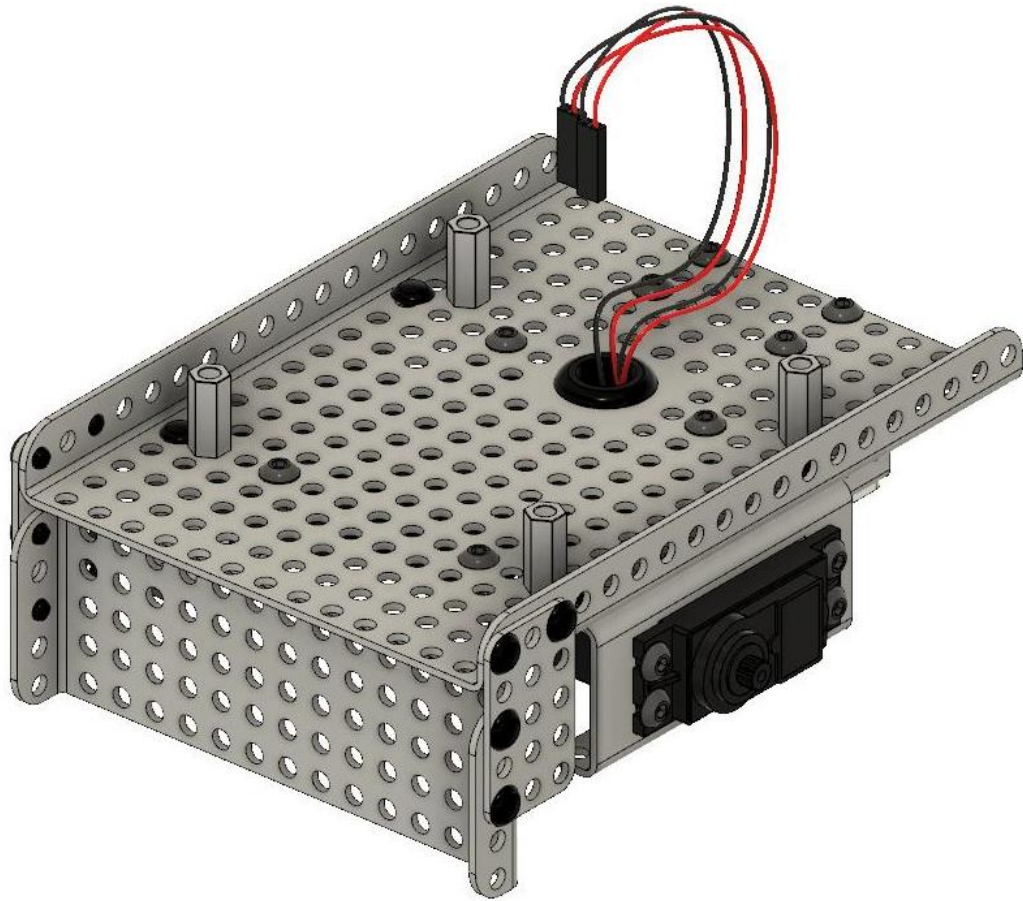
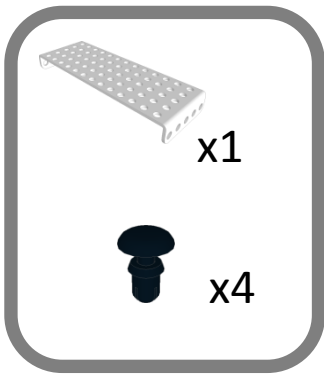


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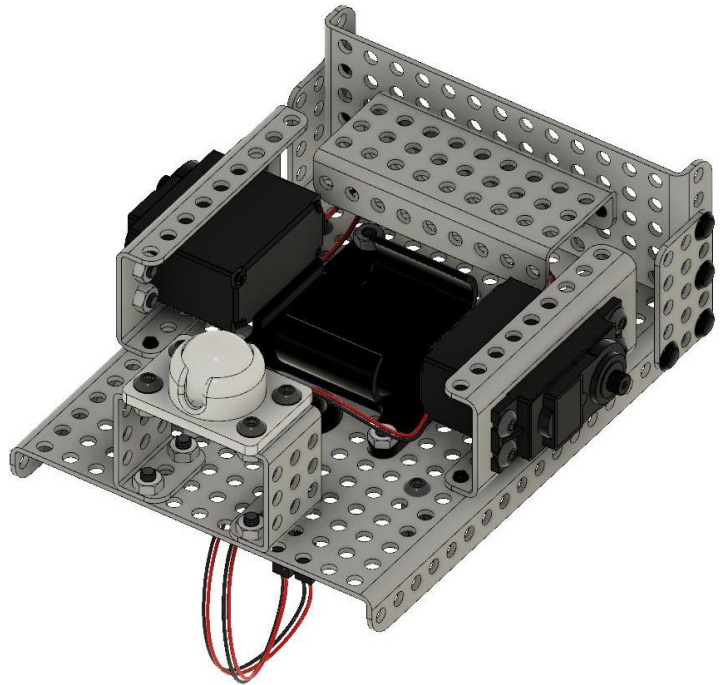
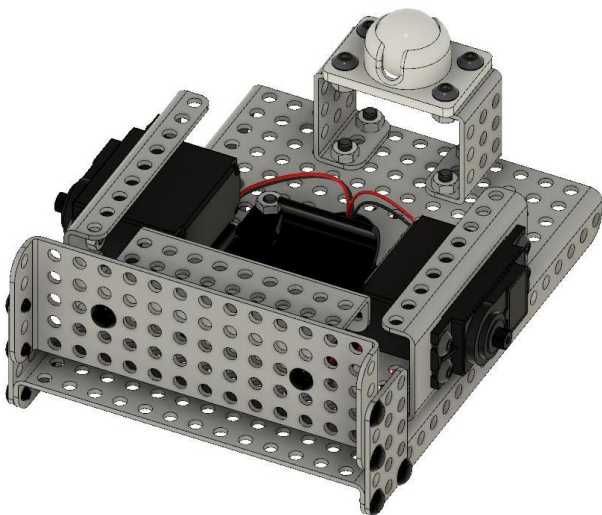
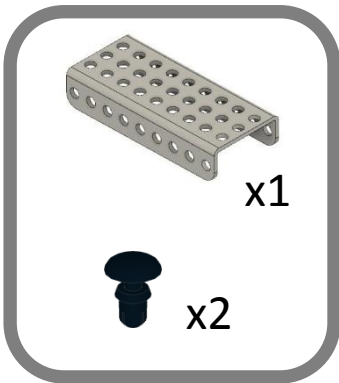




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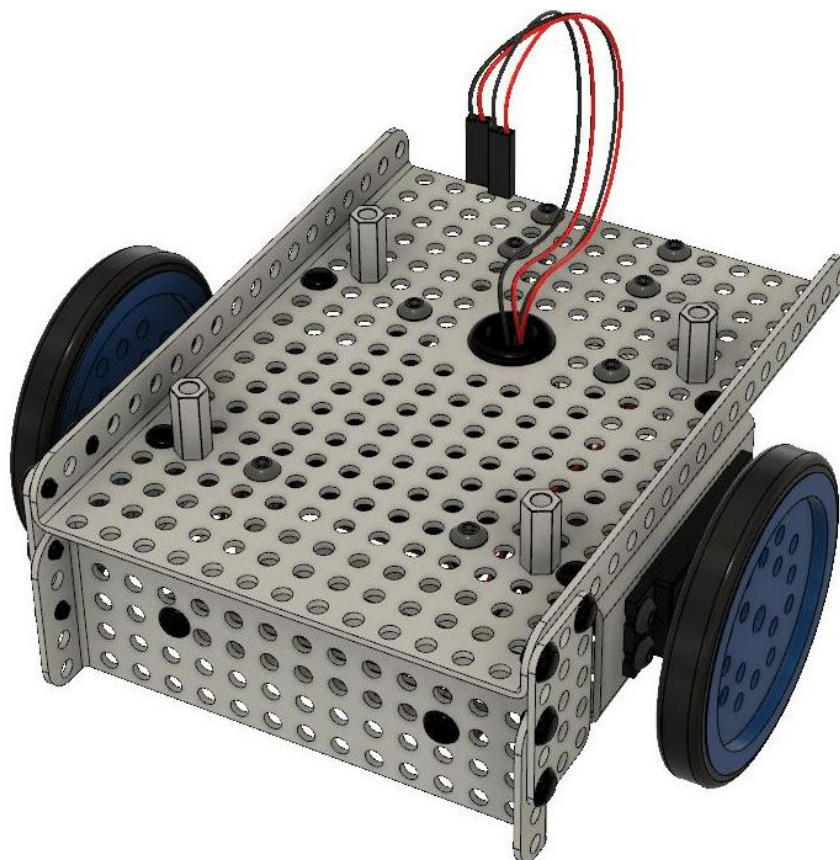
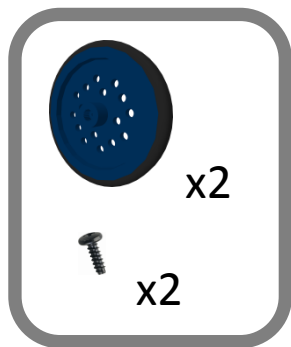


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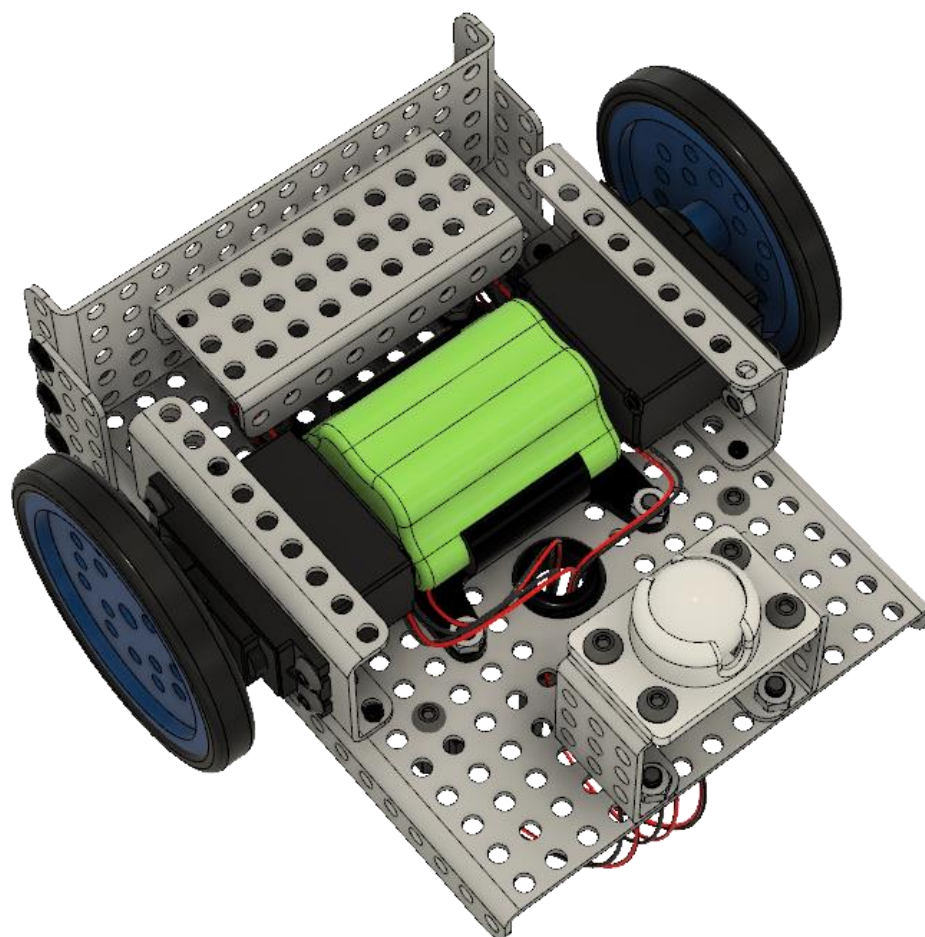
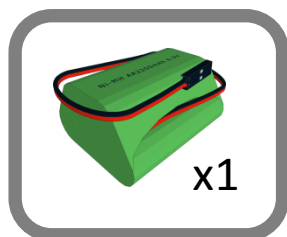




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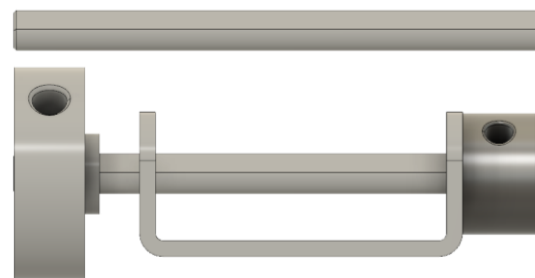
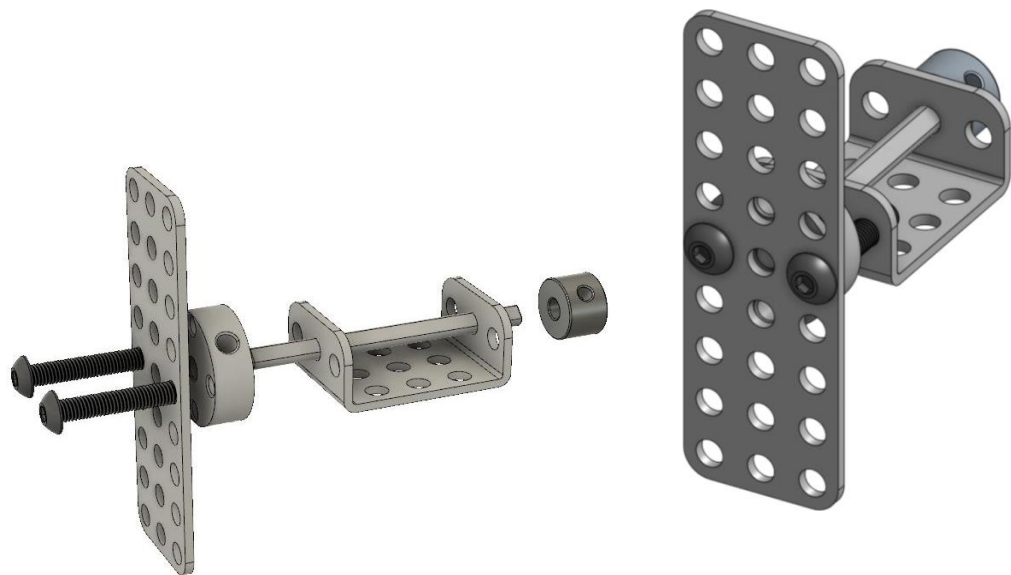



10




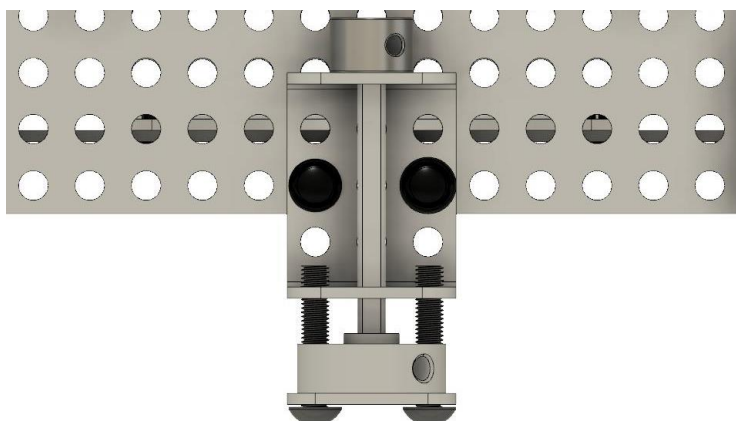
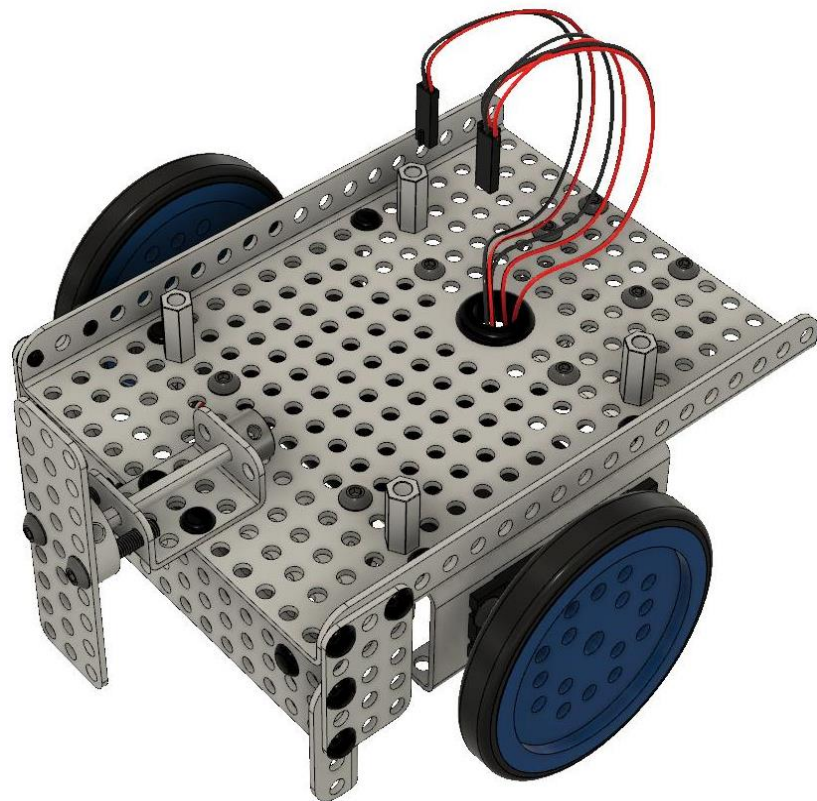
Parts list for the robot's body:

- 1x white rectangular plate with 12 holes
- 1x white cylindrical motor
- 1x white L-shaped bracket with 6 holes
- 1x white cylindrical motor with a gear
- 1x white cylindrical motor with a gear
- 1x white long rod
- 2x black gears
- 2x blue screws (16mm)



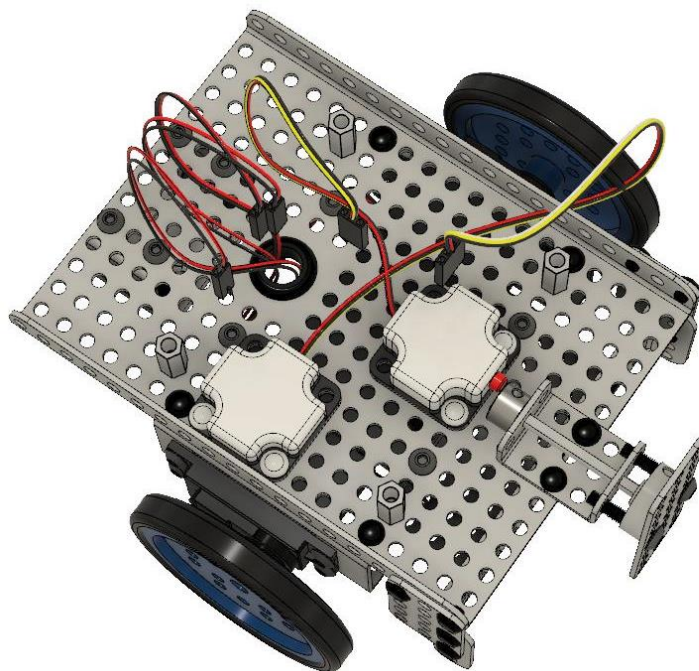
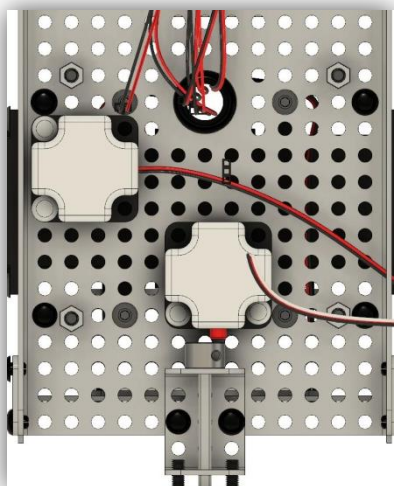
 x1

 x2

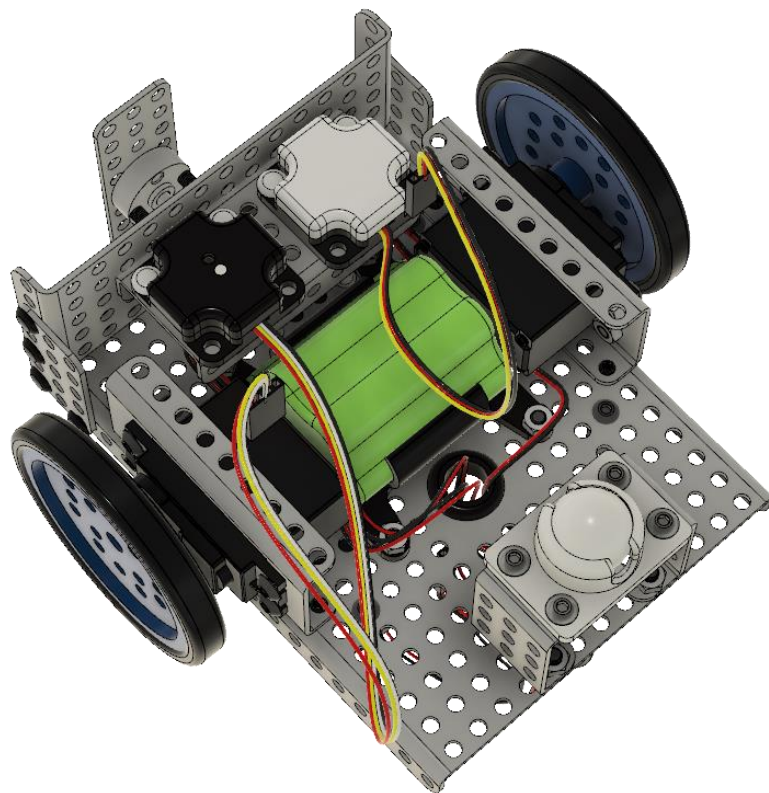
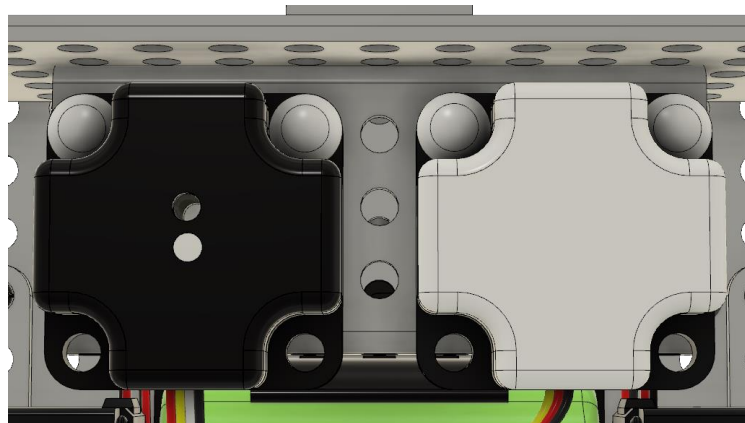
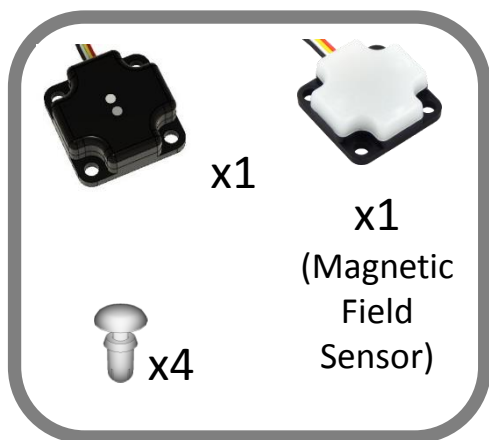




# 13

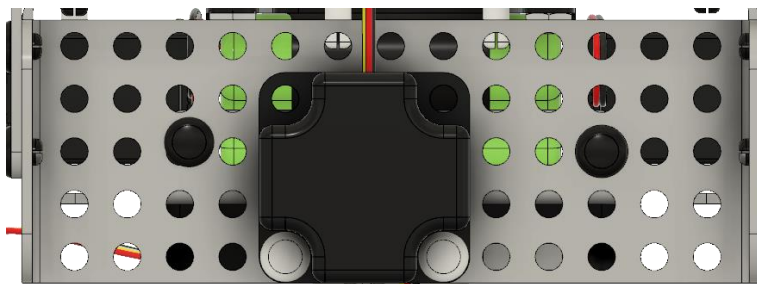
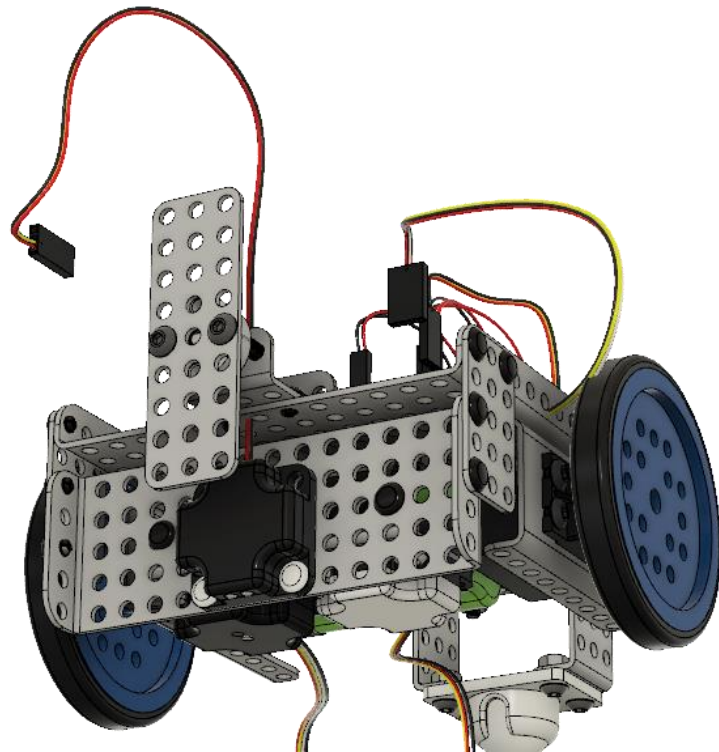


# 14

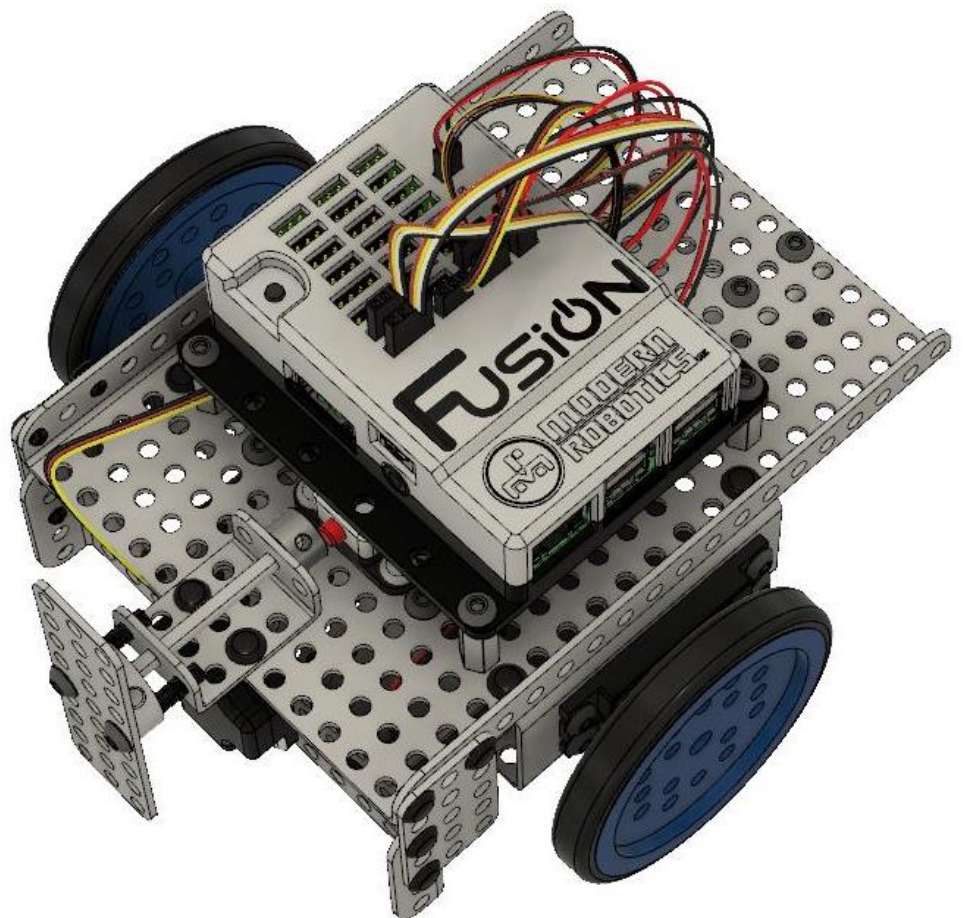
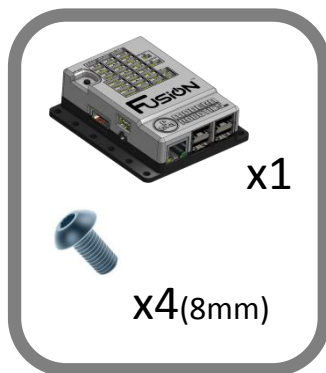














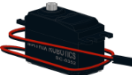



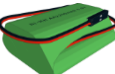

15



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	→		M0
	Battery	→		BATT

