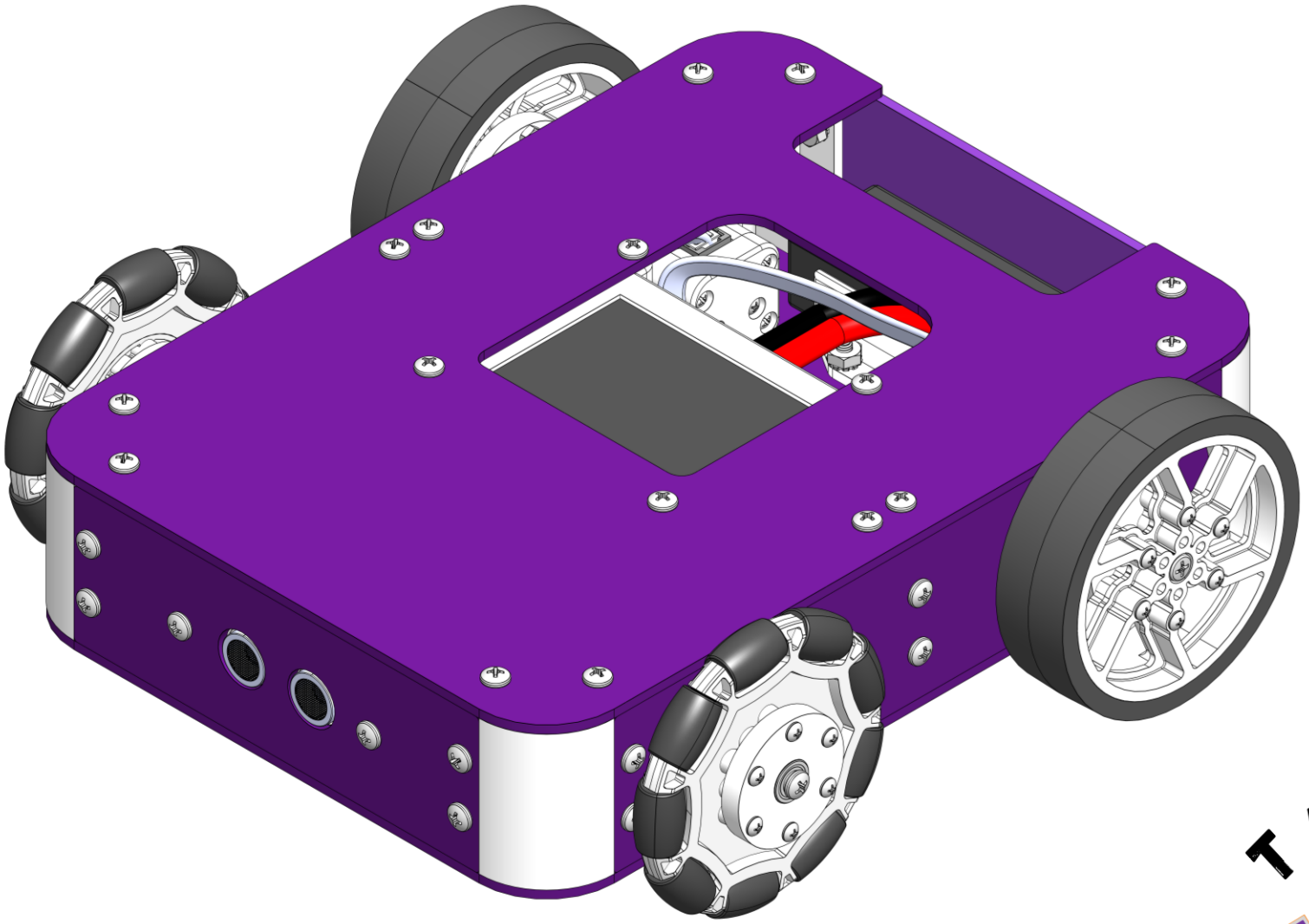
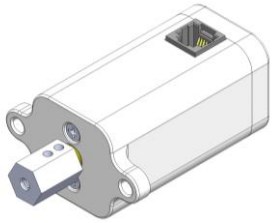
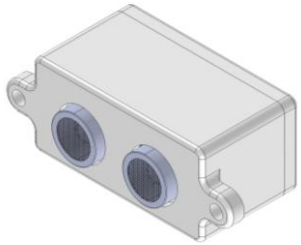
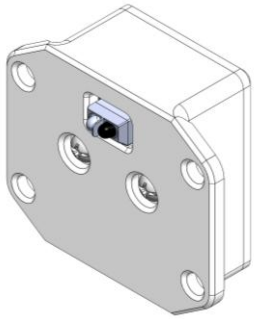
ASSEMBLY INSTRUCTIONS: AXLE



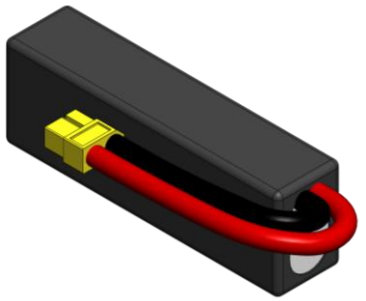
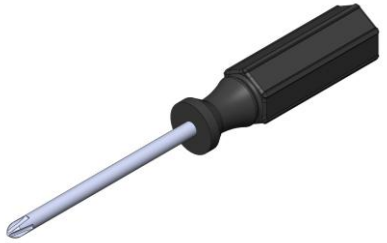
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1	CONTROLLER [C]	
2	USB C CORD [USBC]	
3	GAME CONTROLLER [GC]	
4	USBB [USBB]	

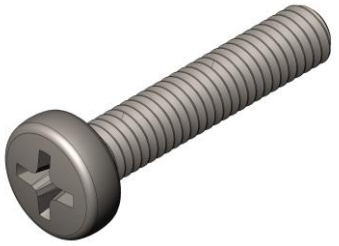
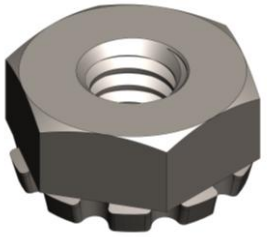
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5	MOTOR [M]	
6	ULTRASONIC SENSOR [US]	
7	LIGHT SENSOR [LS]	
8	WIRE [WR]	

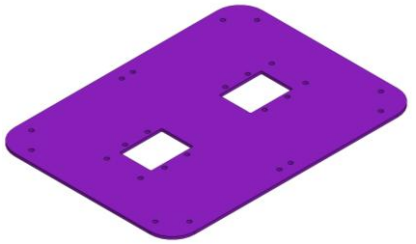
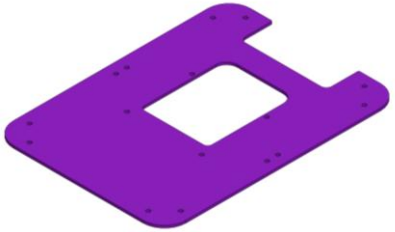
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9	BATTERY [B]	
10	BATTERY CHARGER [BC]	
11	SCREWDRIVER [SD]	
12	OPEN WRENCH [OW]	

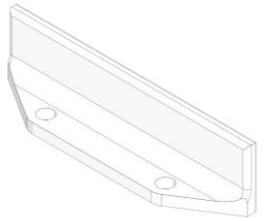
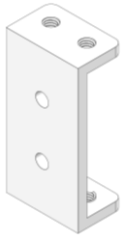
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13	STANDOFF [S0]	
14	8-32 0.5" PHILIPS SCREW [S1]	
15	M4 SCREW 20MM [S2]	
16	8-32 STAR NUT [N1]	

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17	BOTTOM PLATE [BTP]	
18	TOP PLATE [TP]	
19	FRONT PLATE [FP]	
20	BACK PLATE [BP]	
21	SIDE PLATE [SP]	

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22	BATTERY HOLDER [BH]	
23	CORNER MOUNT [CM]	
24	SIDE MOUNT [SM]	
25	TRACTION WHEEL [TTW]	
26	OMNI WHEEL [OMW]	

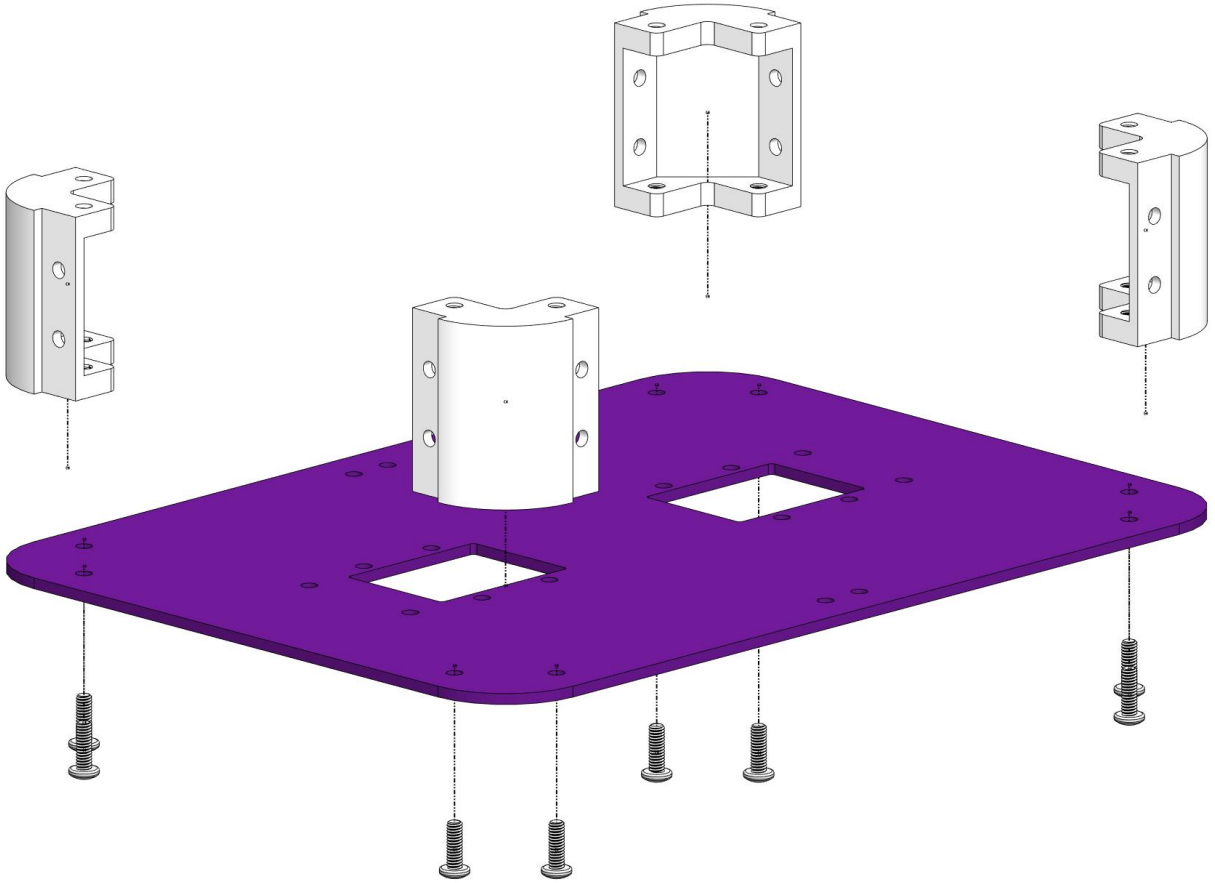
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[BTP] x1

[CM] x4

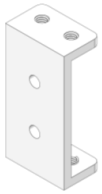
[S1] x8

1



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[SM]



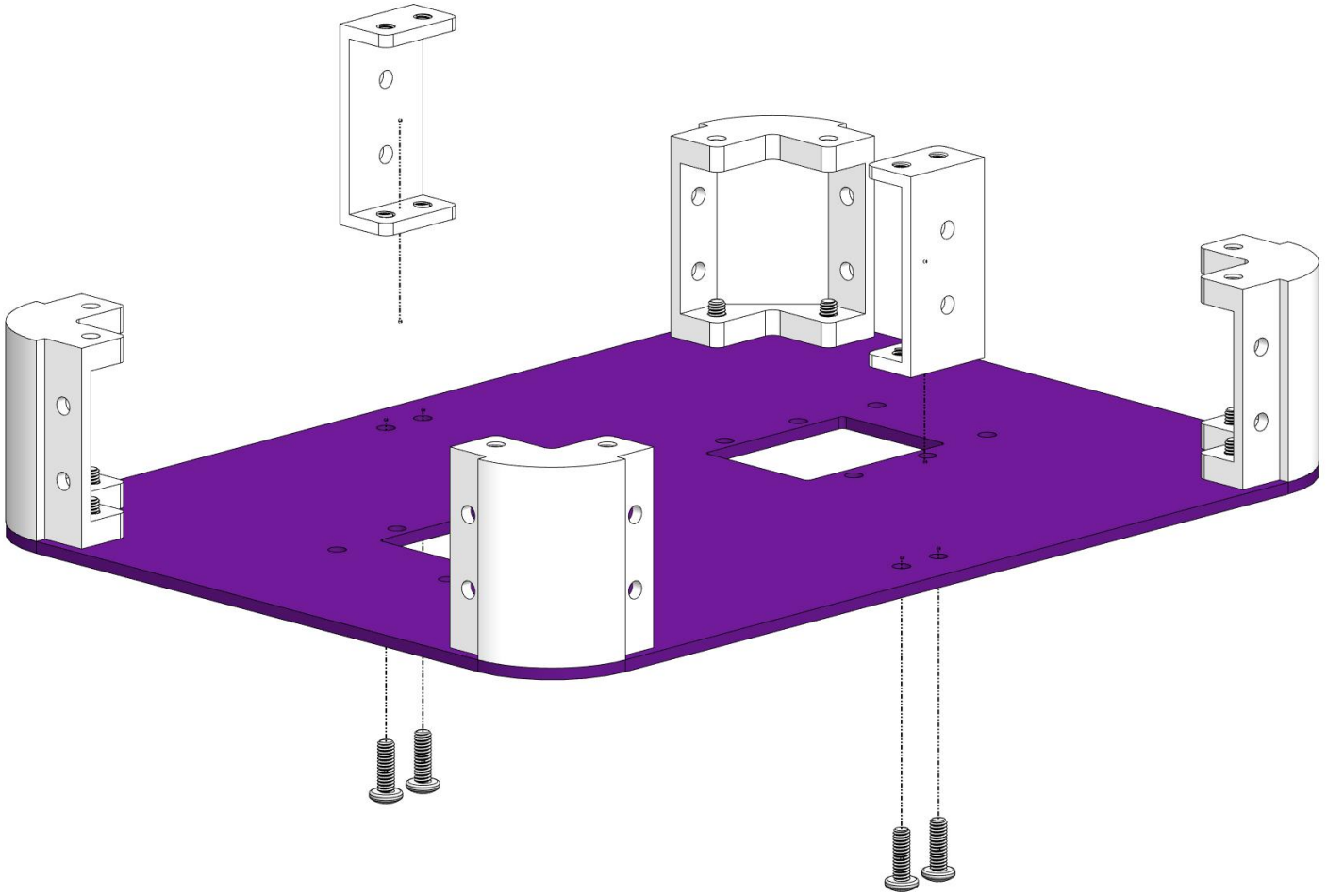
x2

[S1]



x4

2



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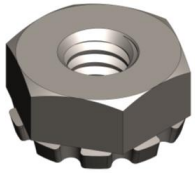
[SP] x1

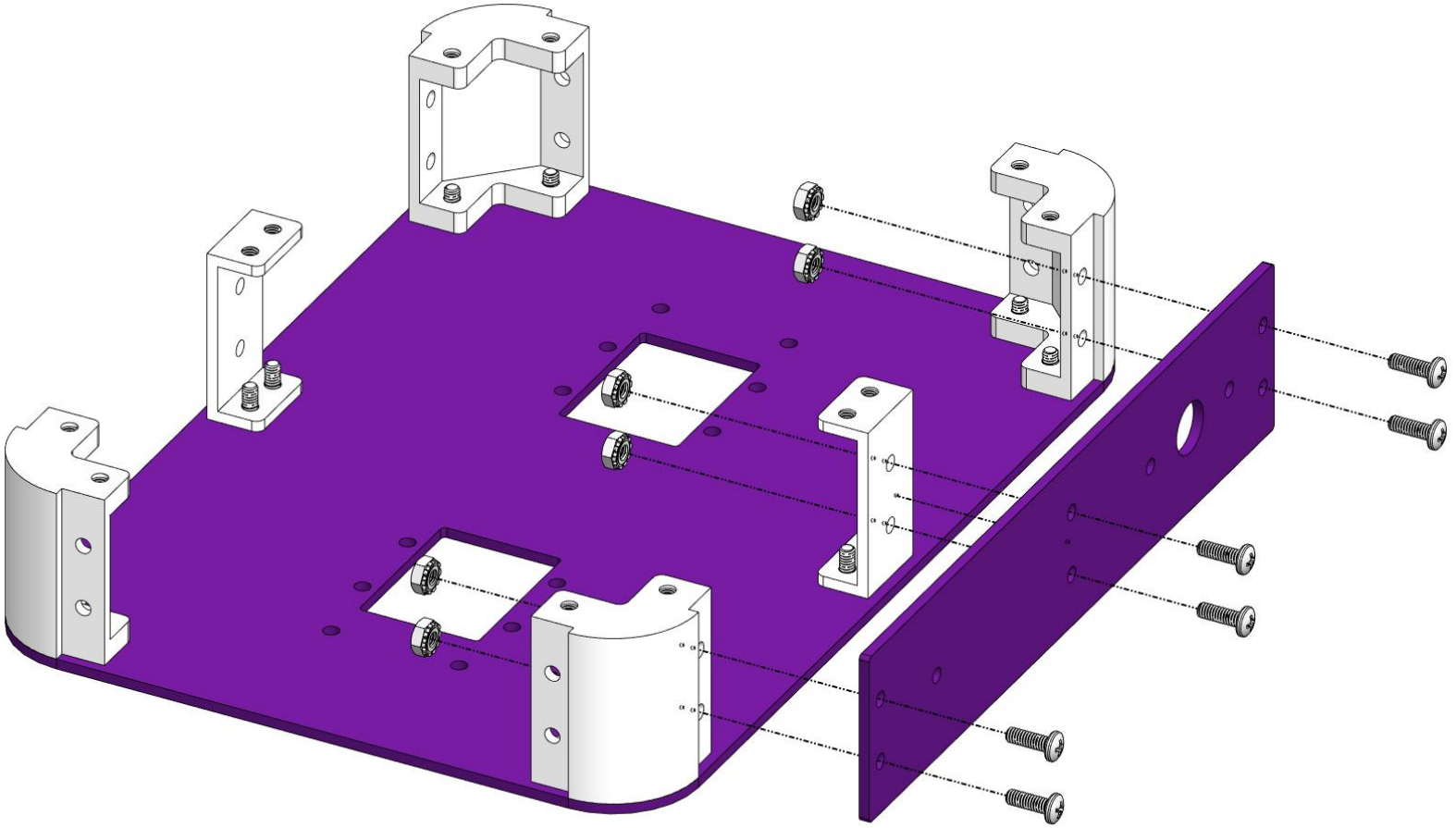


[S1] x6



[N1] x6





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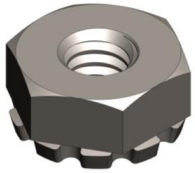
[SP] x1

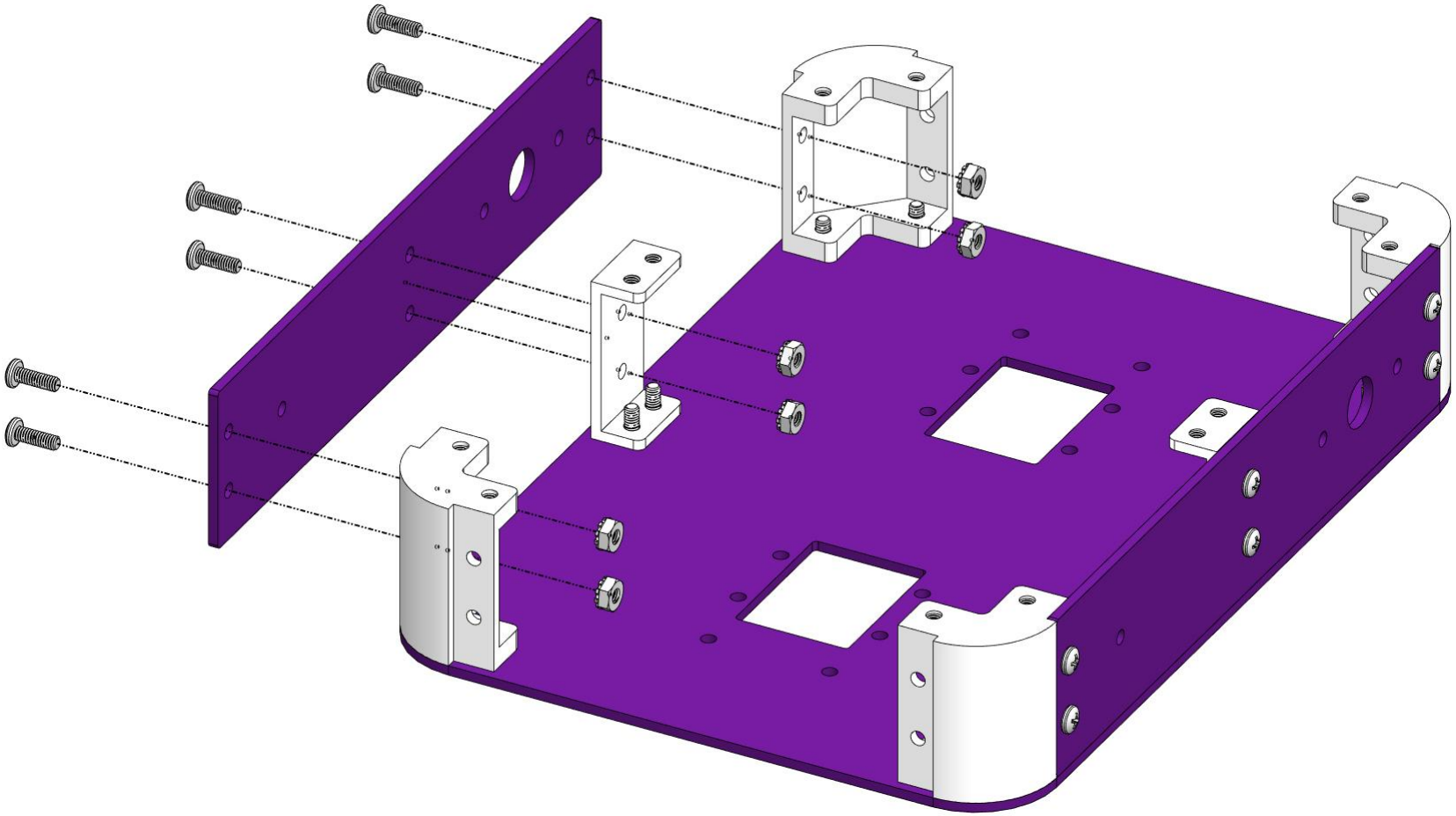


[S1] x6



[N1] x6





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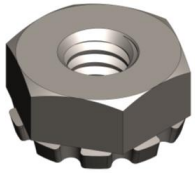
[FP] x1



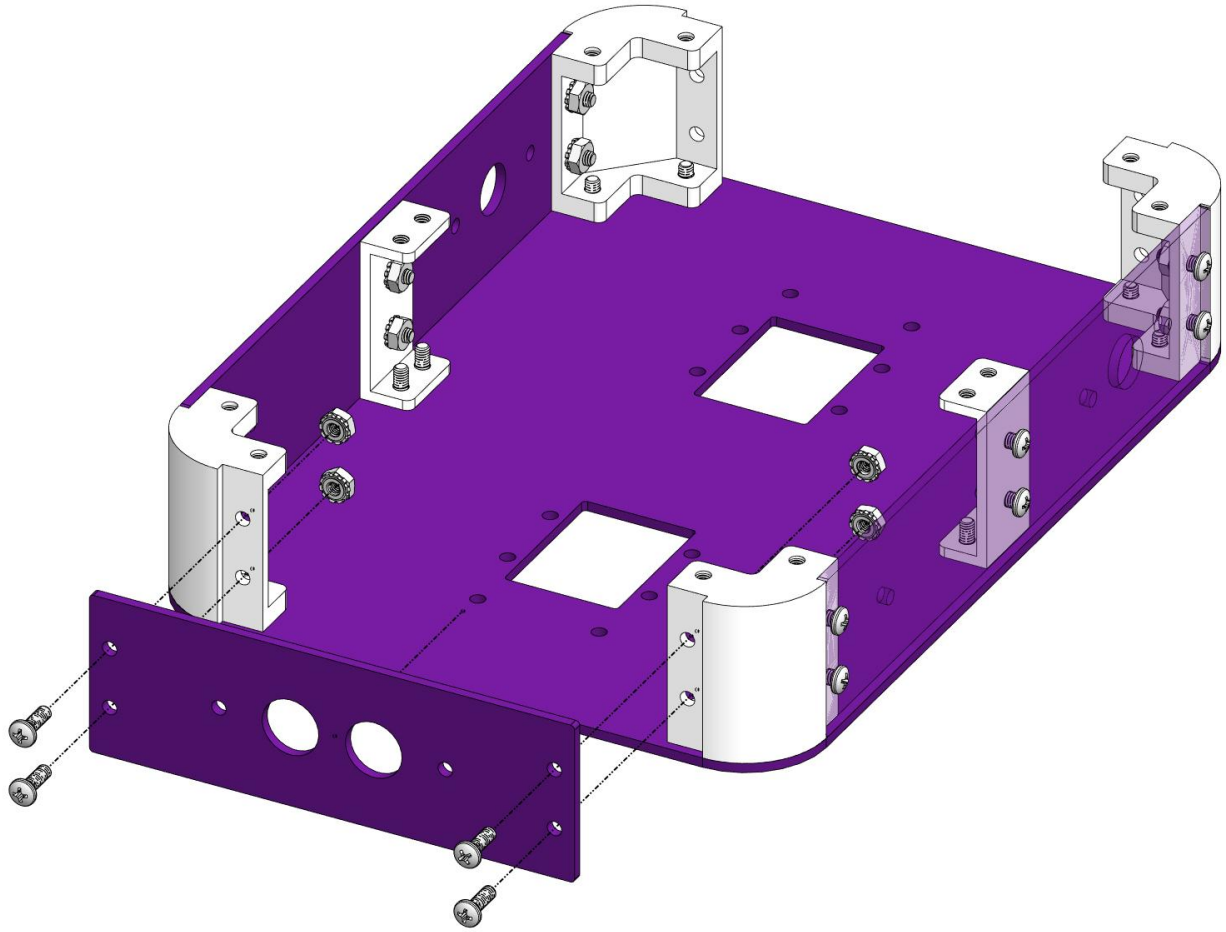
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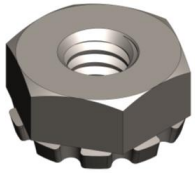
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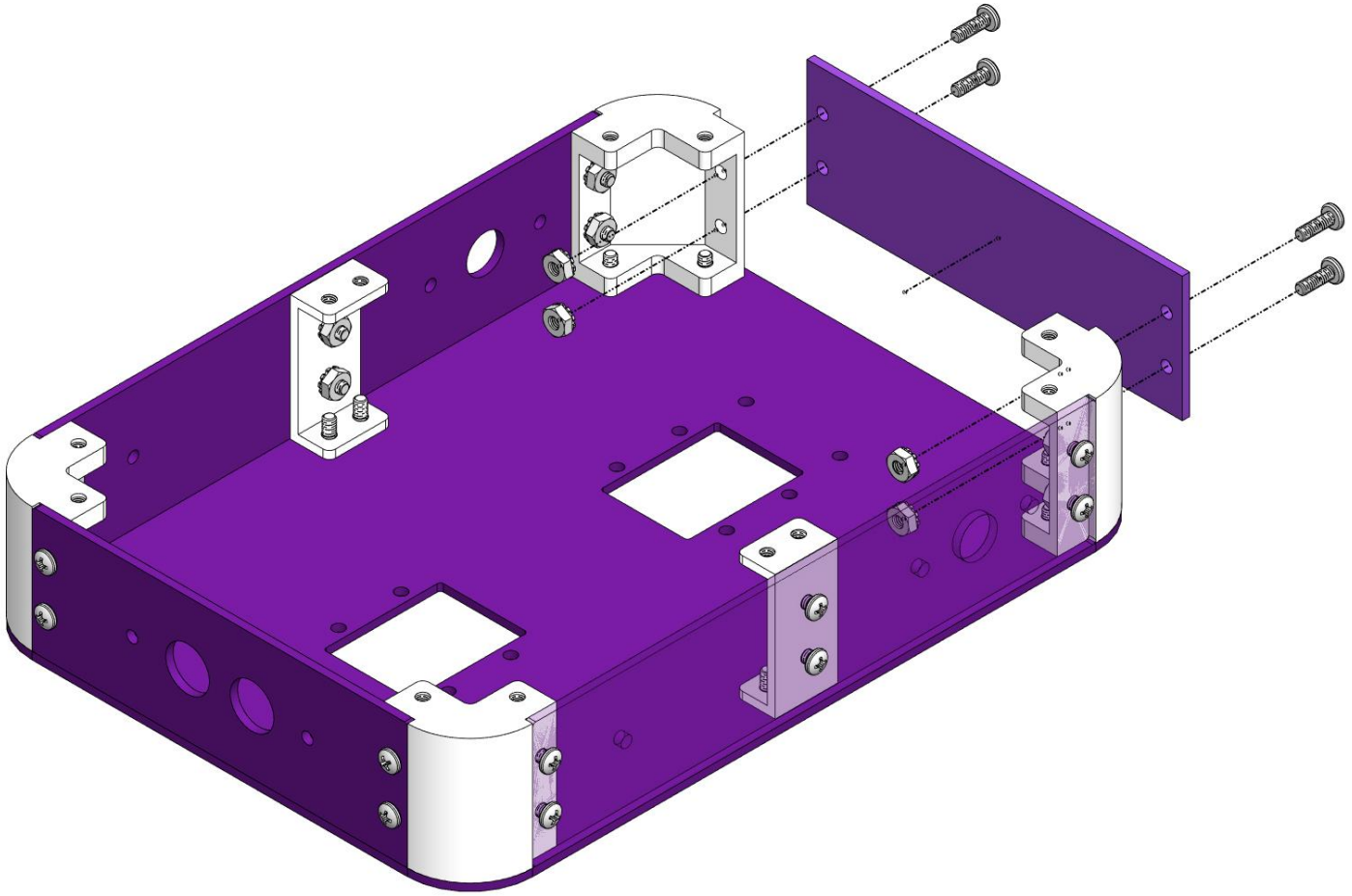


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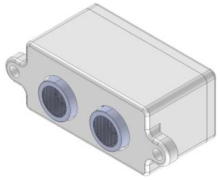
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[BP]	[S1]	[N1]
		
x1	x4	x4



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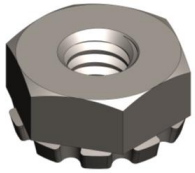
[US] [S1] [N1]



x1

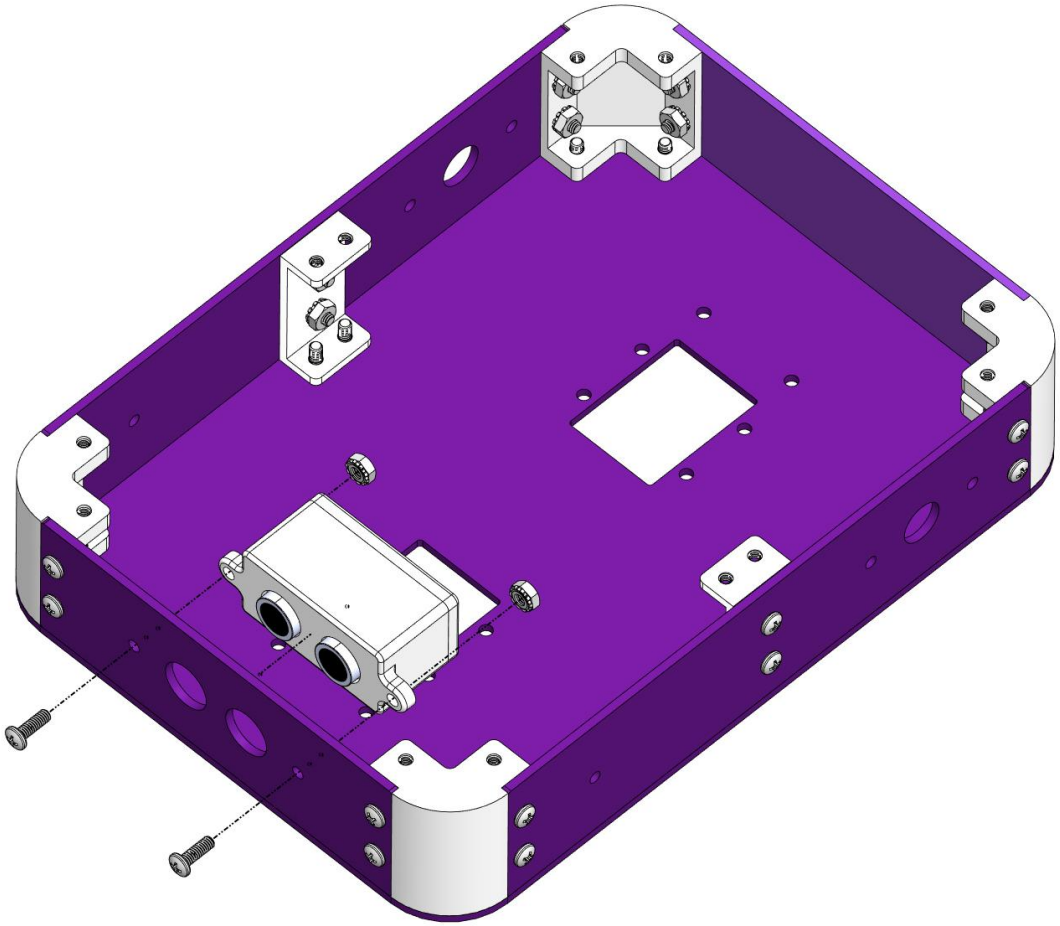


x2



x2

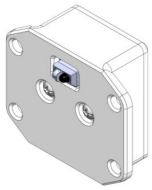
7



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8

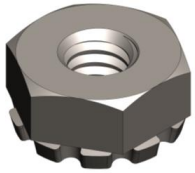
[LS] x1

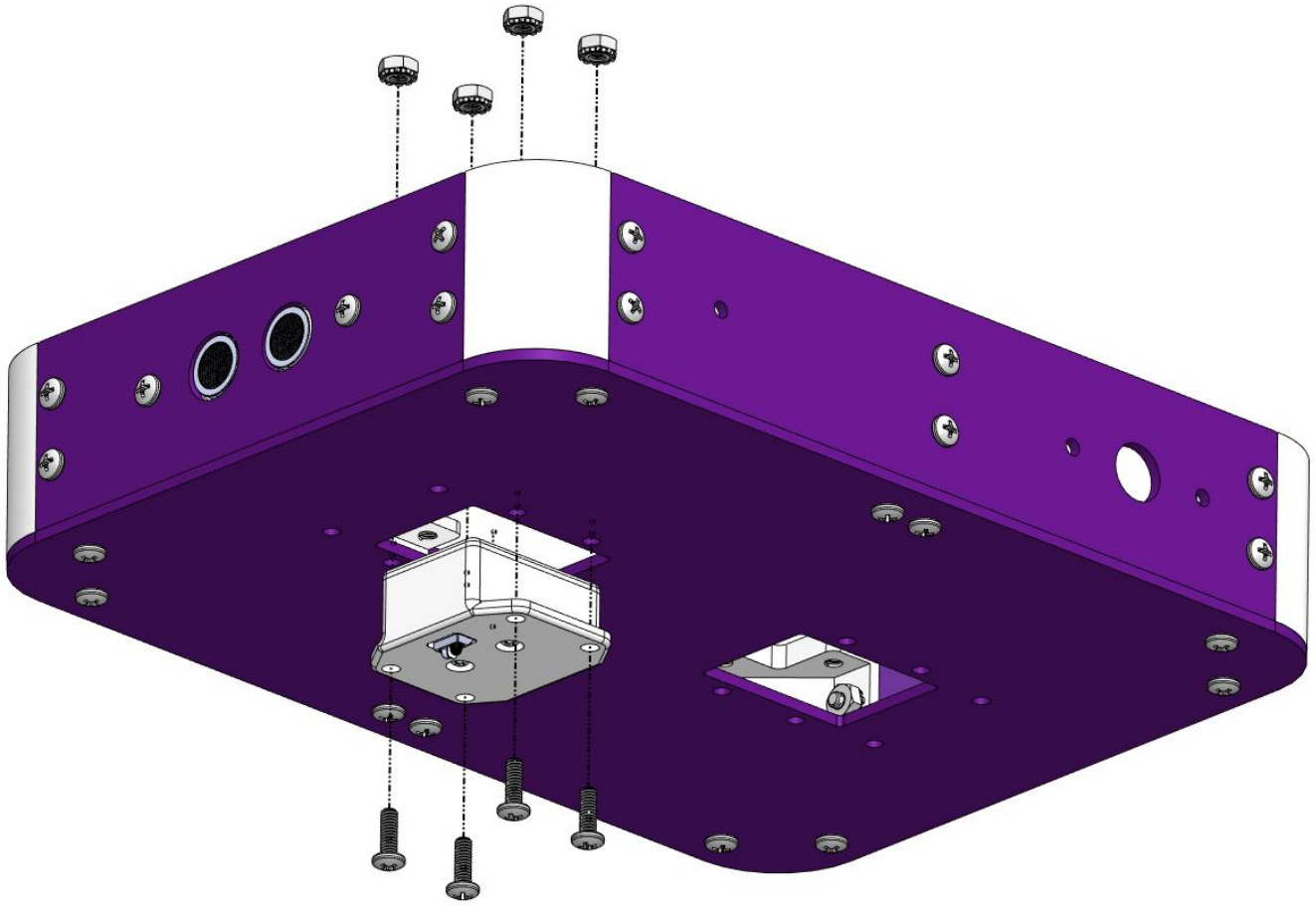


[S1] x4



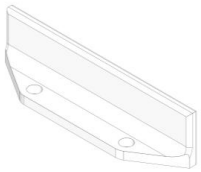
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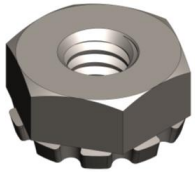
[BH] x1



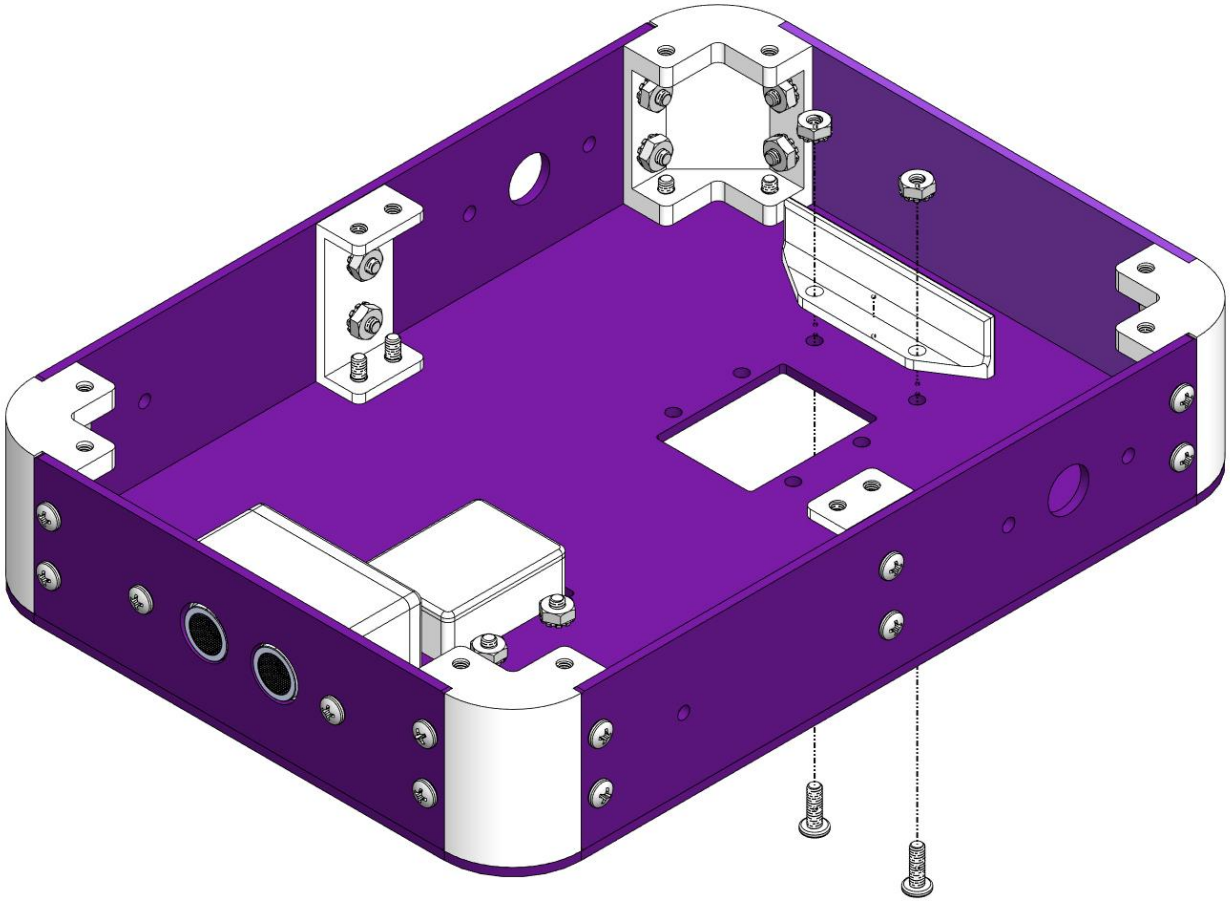
[S1] x2



[N1] x2

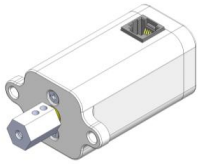


9



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[M]

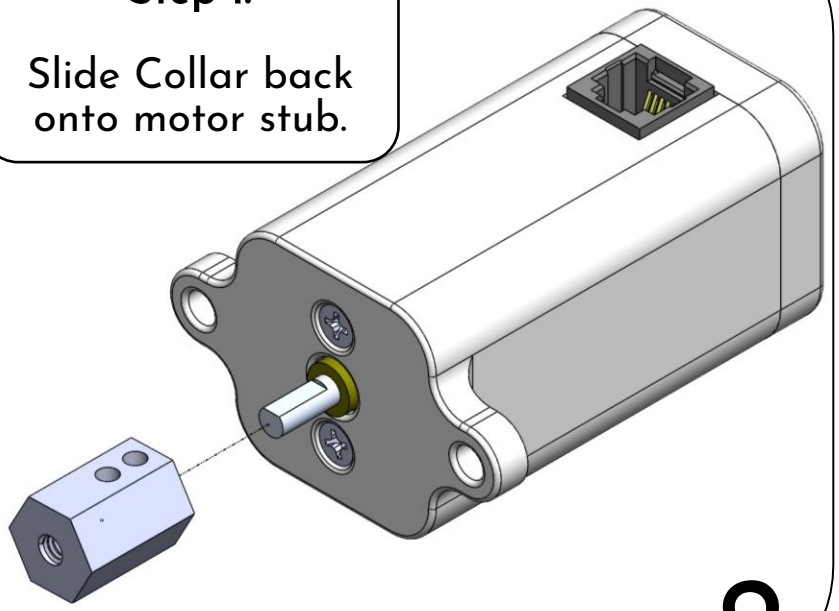


x2

10

Step 1:

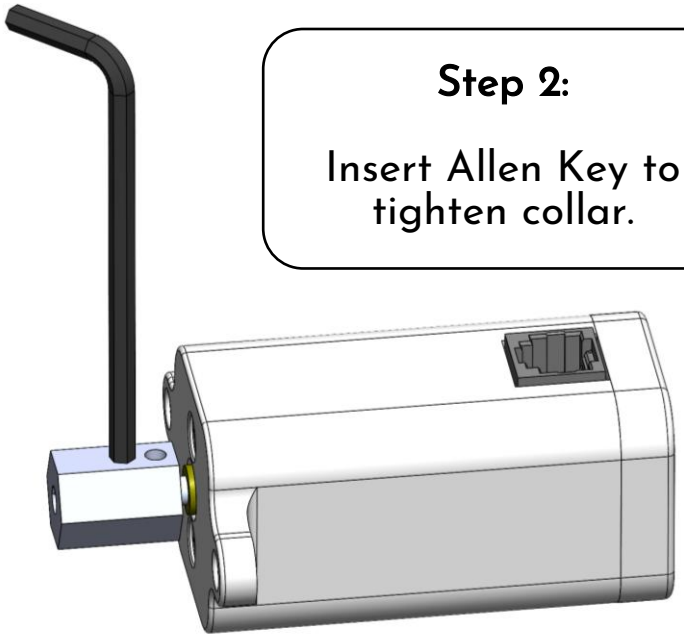
Slide Collar back onto motor stub.



x2

Step 2:

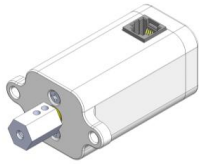
Insert Allen Key to tighten collar.



x2

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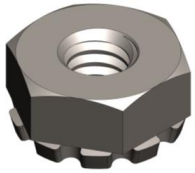
[M] x1



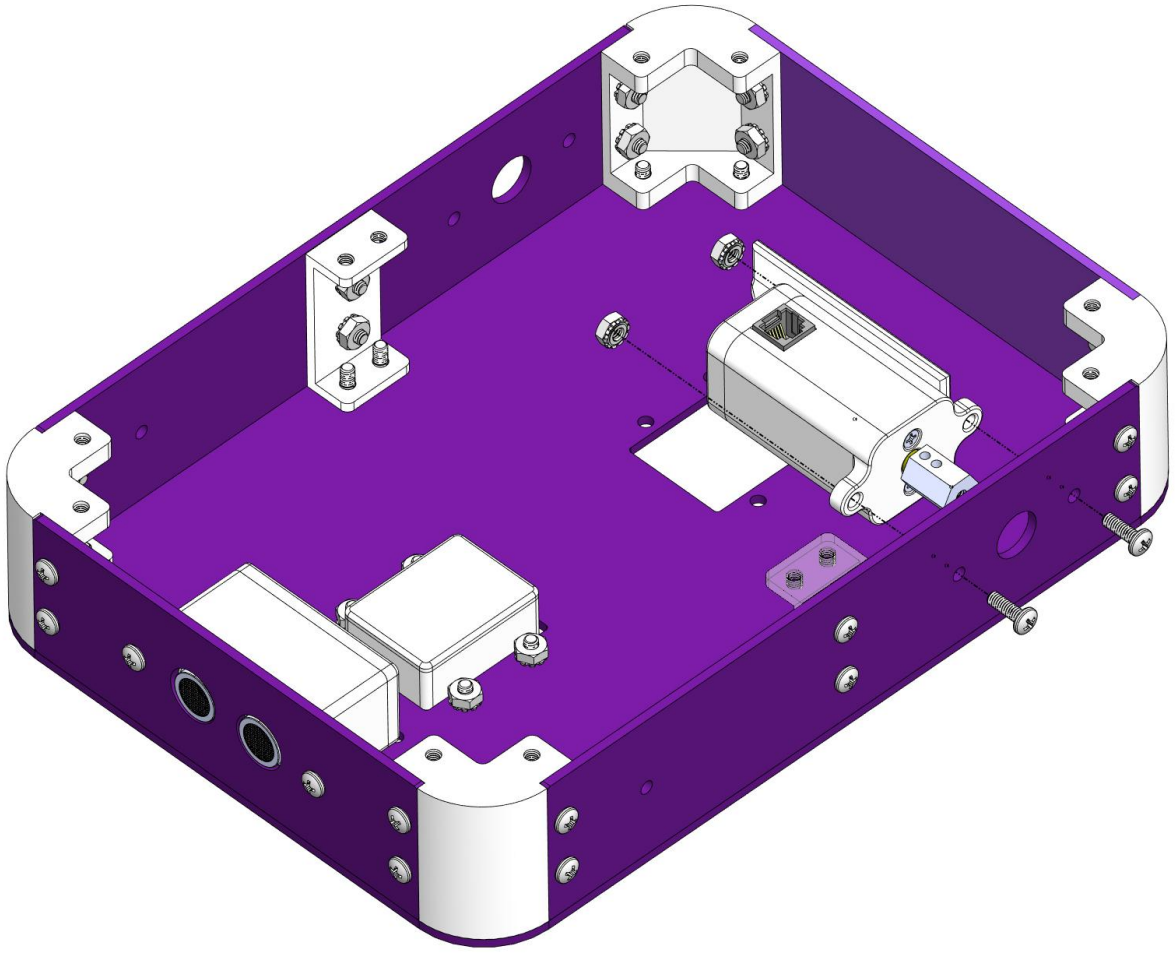
[S1] x2



[N1] x2

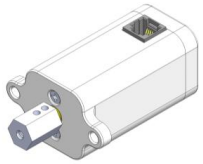


11



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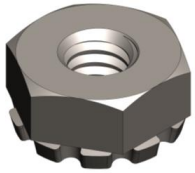
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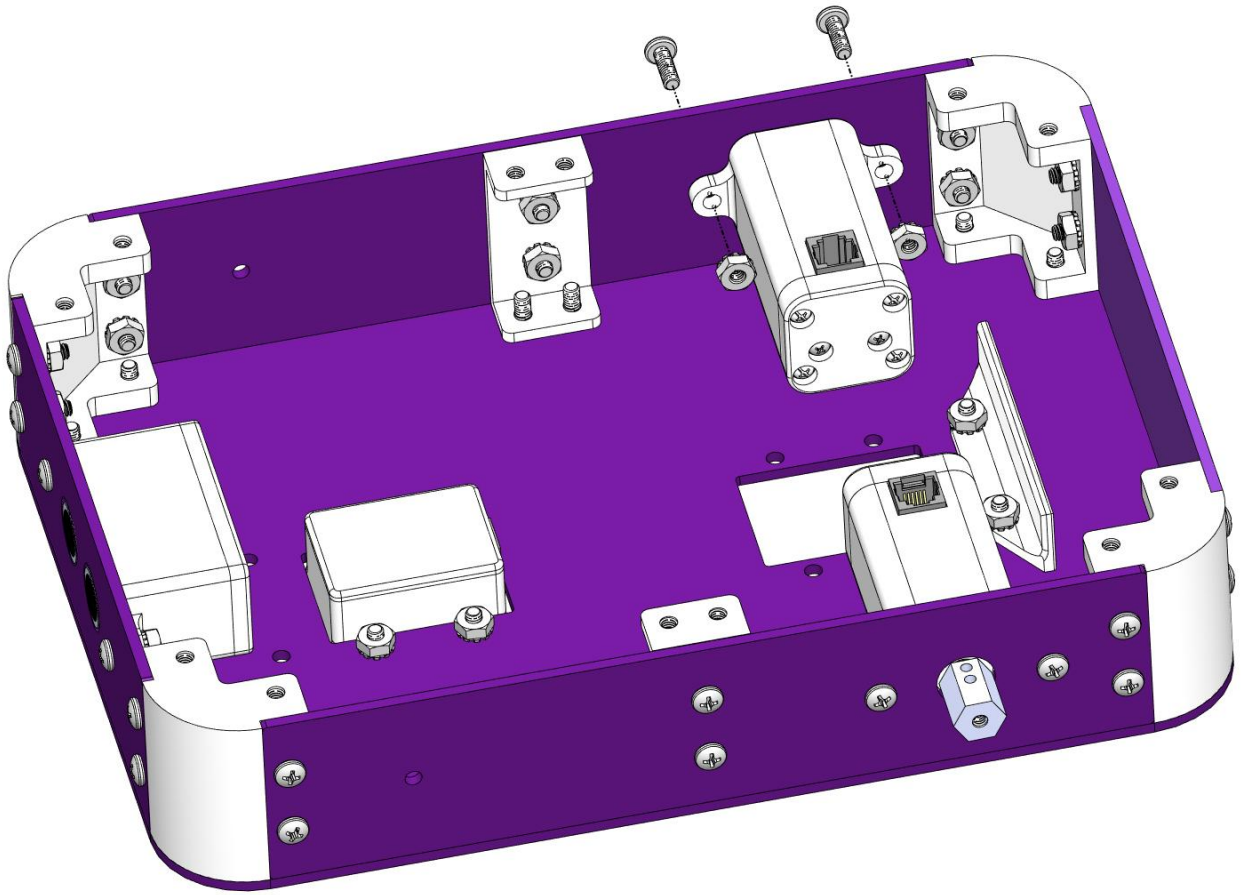


[S1] x2



[N1] x2





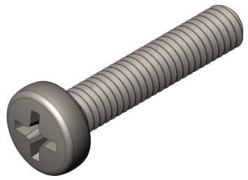
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[TTW]

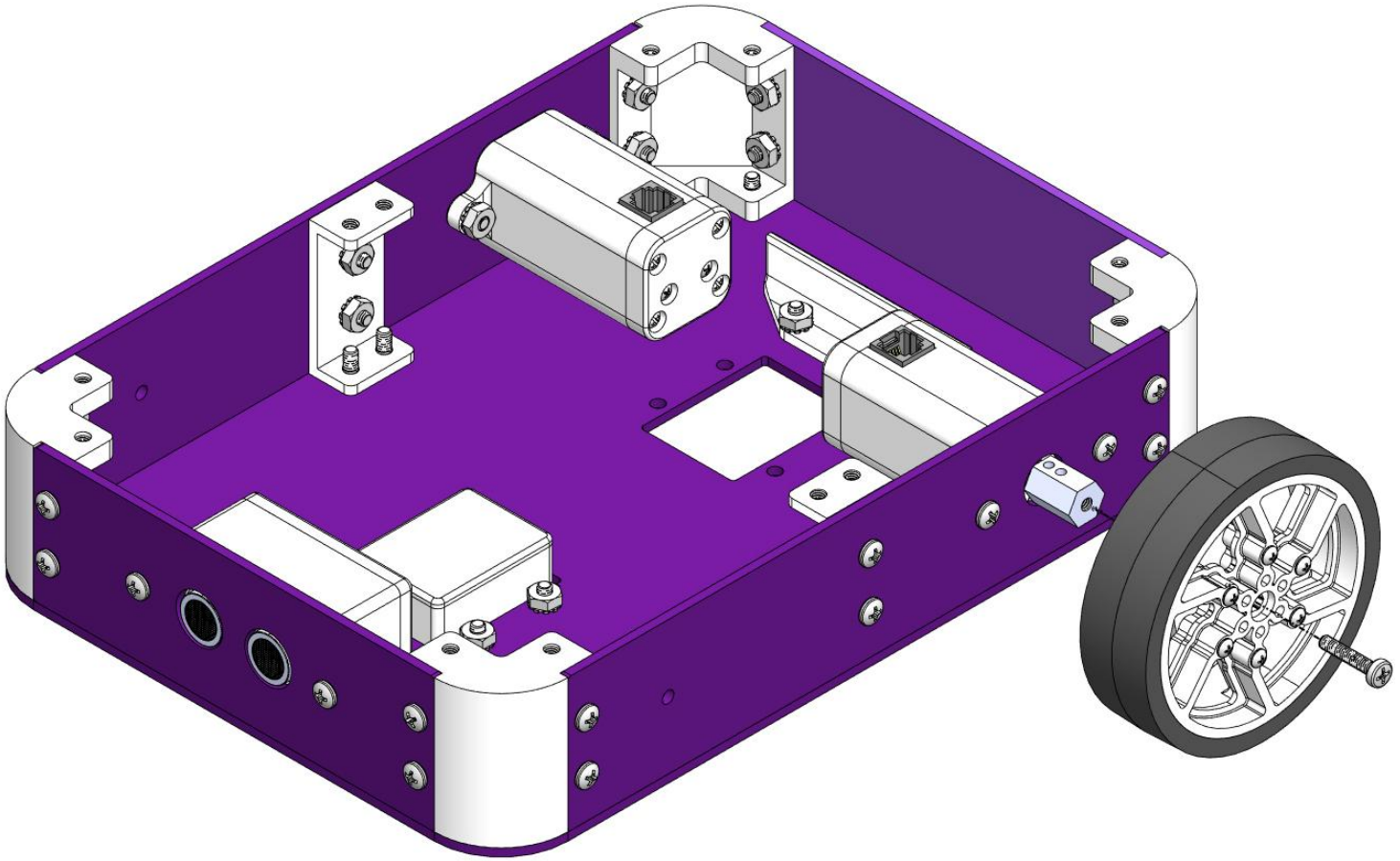


X1

[S2]



x1



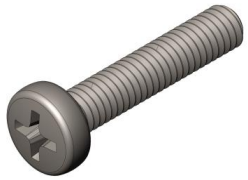
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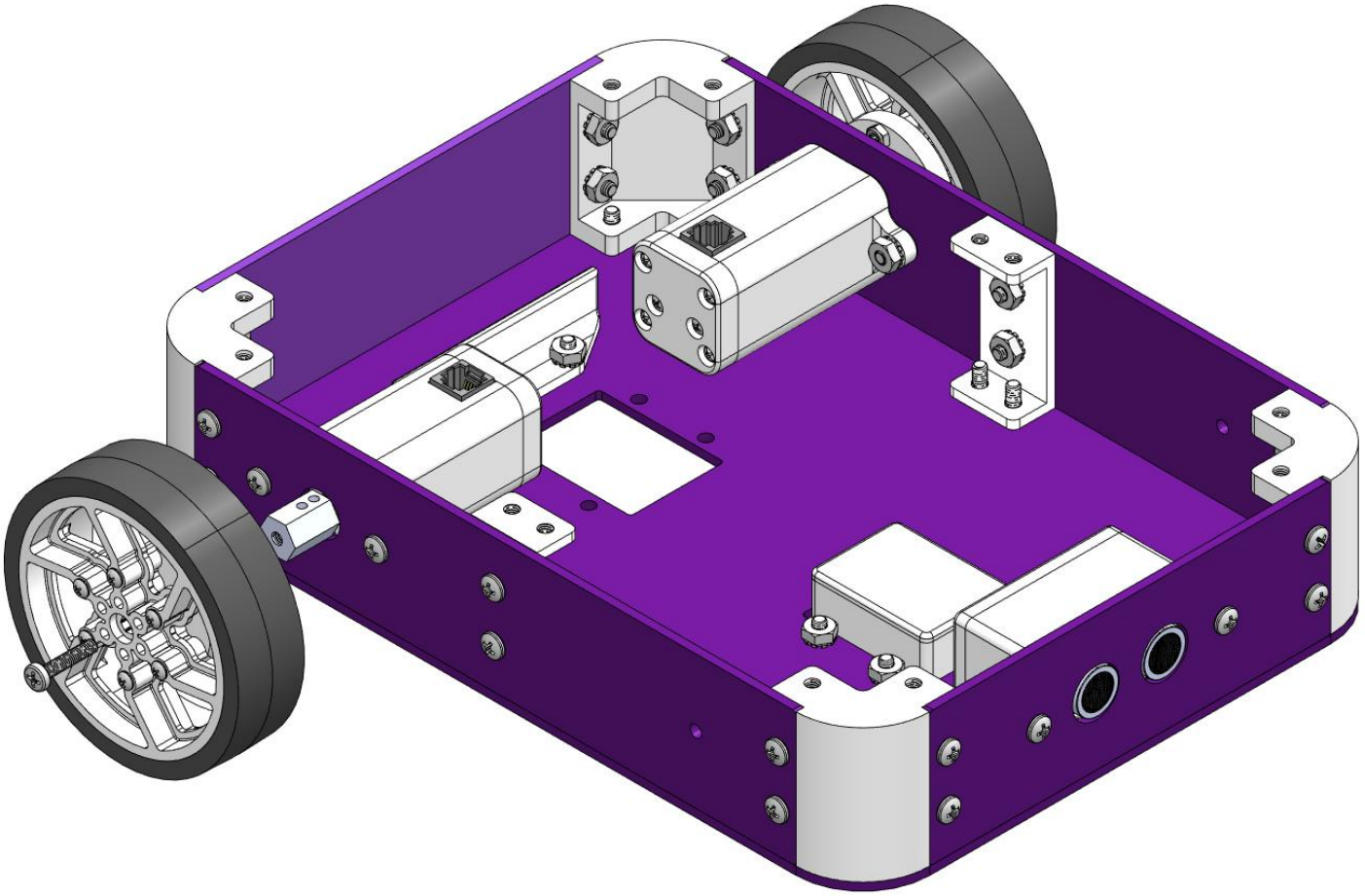
X1

[S2]



x1

14



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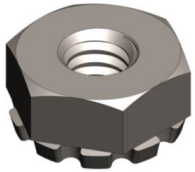
[SO] x1

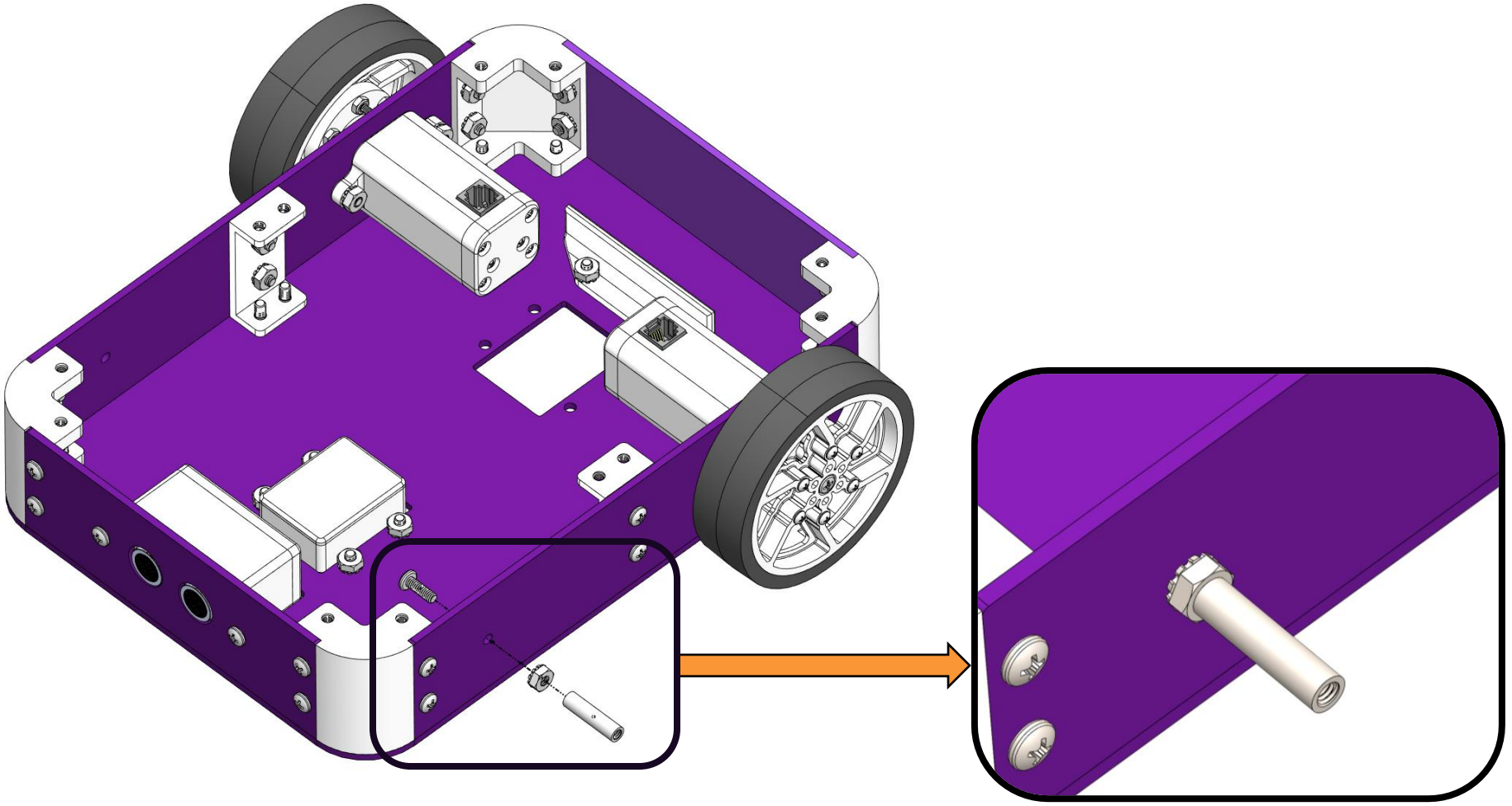


[S1] x1



[N1] x1





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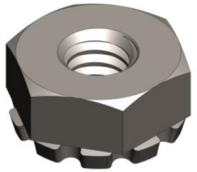
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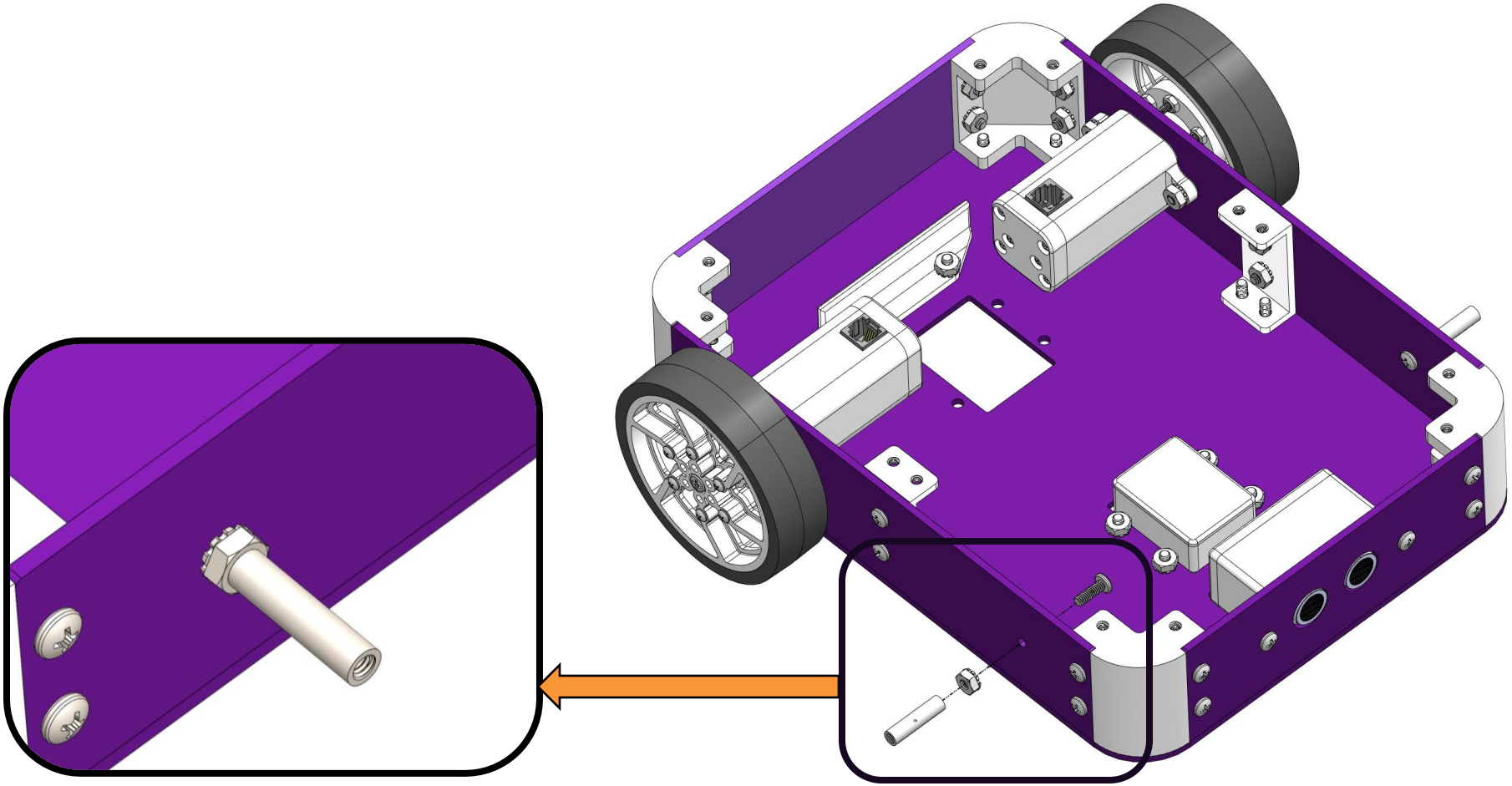


[S1] x1



[N1] x1





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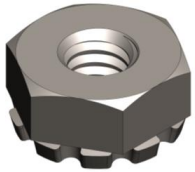
[OMW] X1

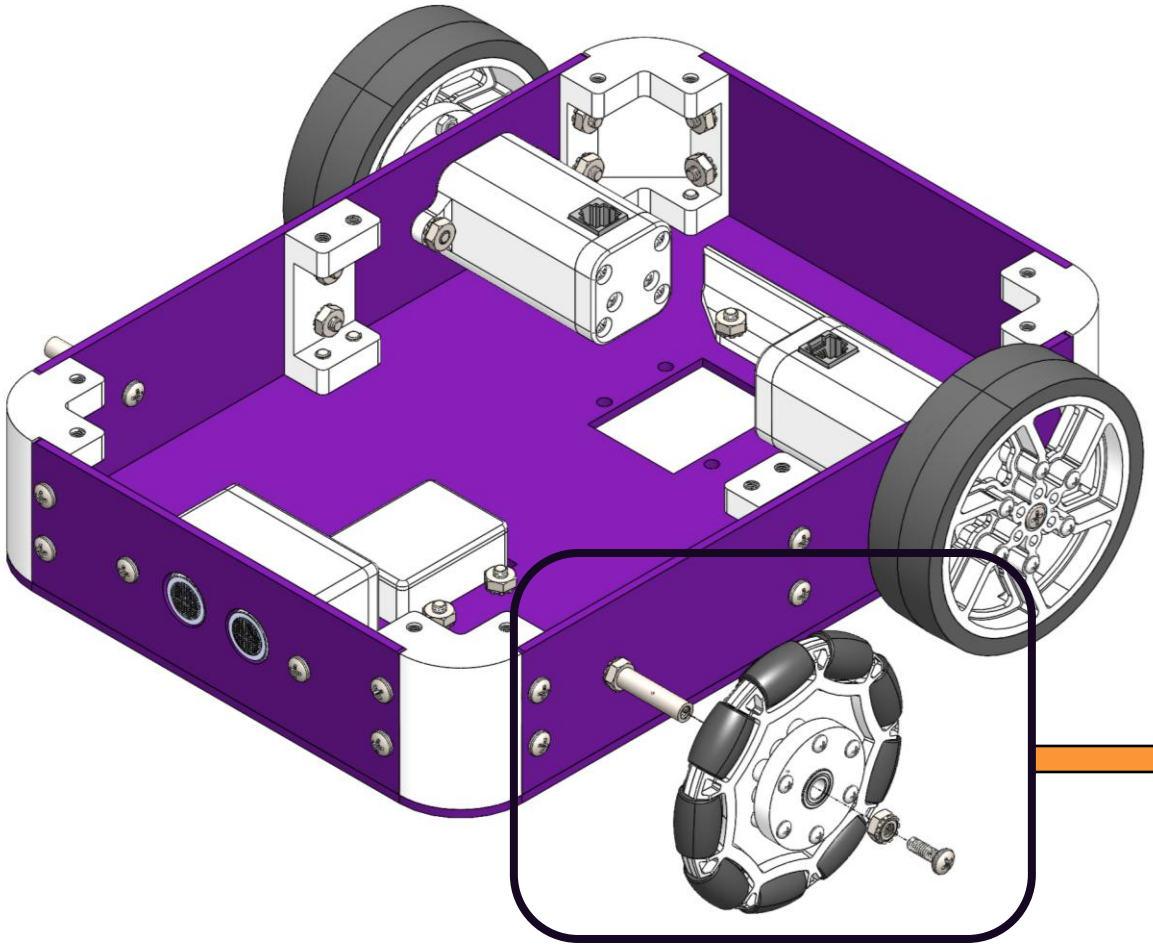


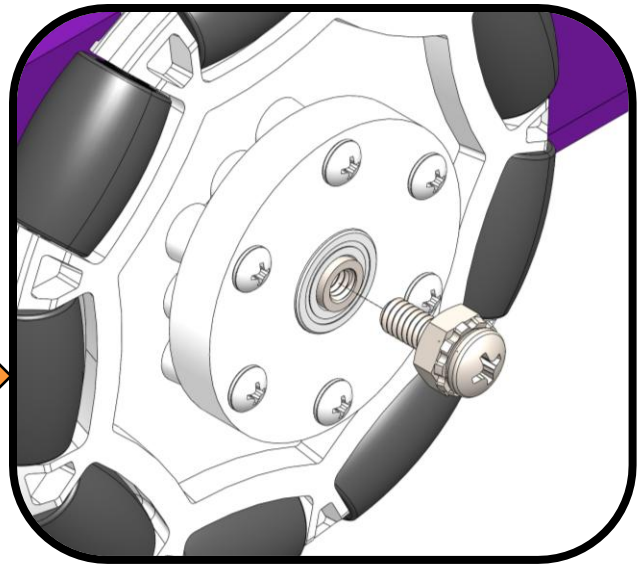
[S1] x1



[N1] x1







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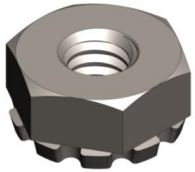
[OMW] X1

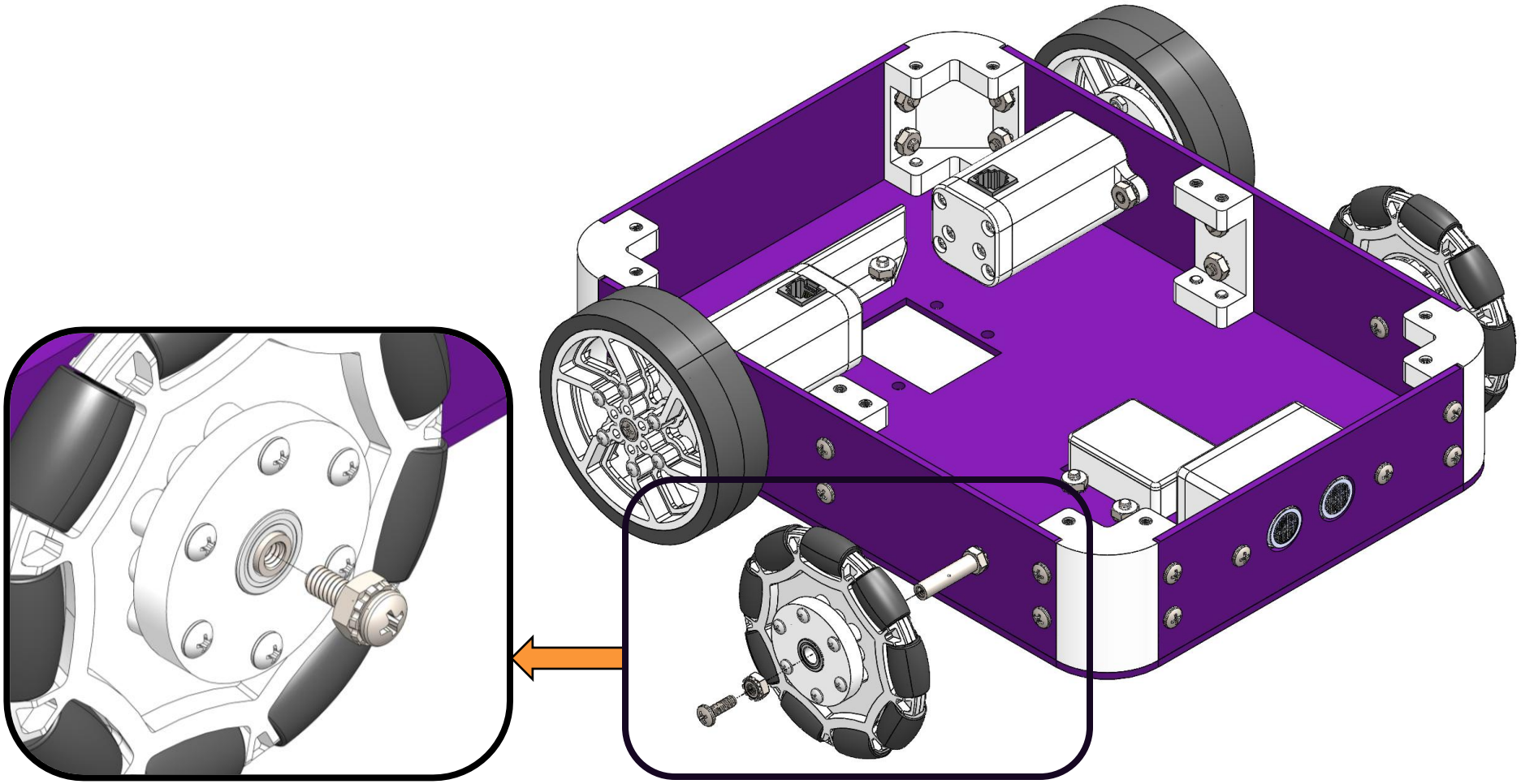


[S1] x1



[N1] x1





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[C]



x1

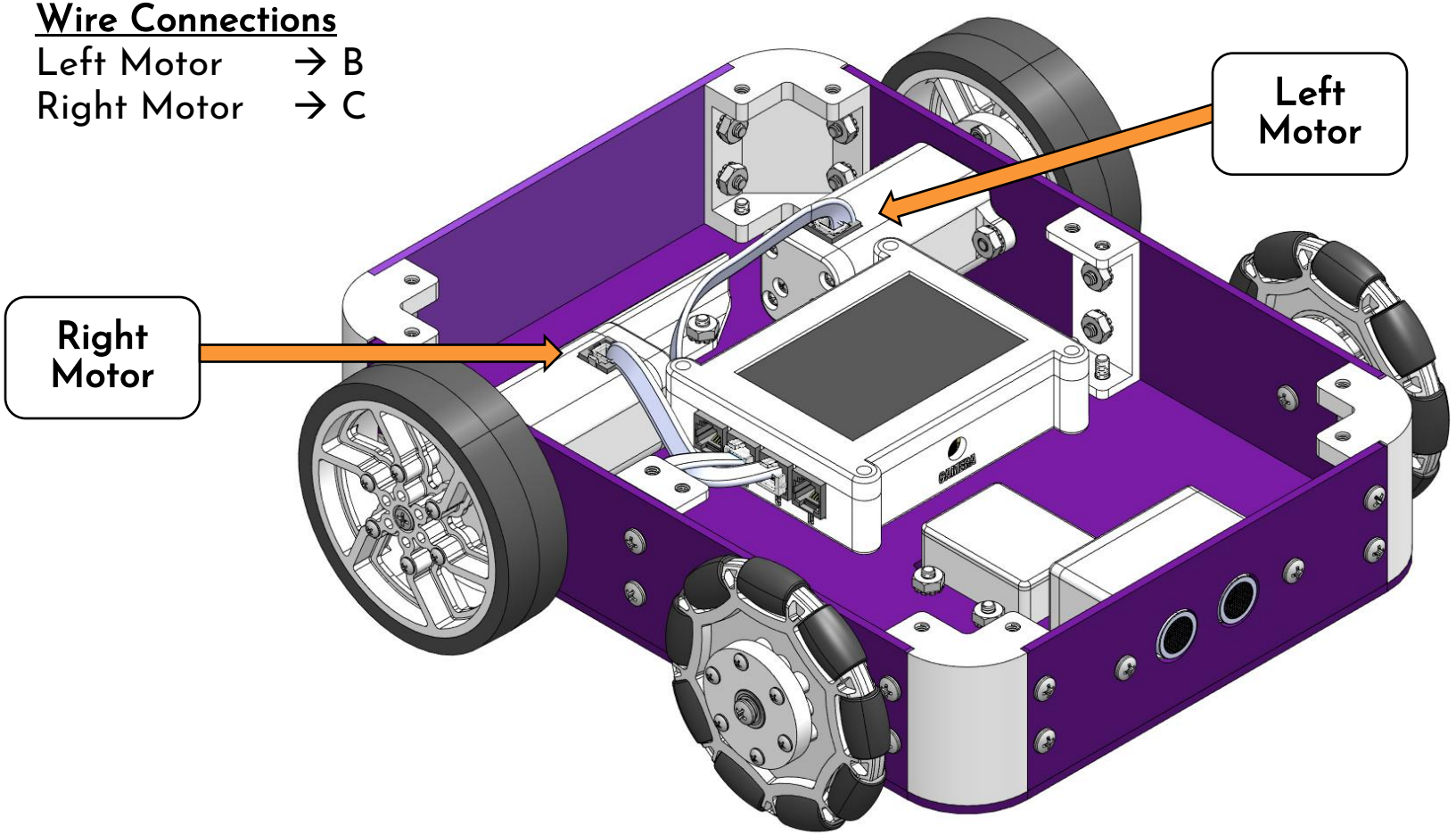
[WR]



x2

Wire Connections

Left Motor → B
Right Motor → C



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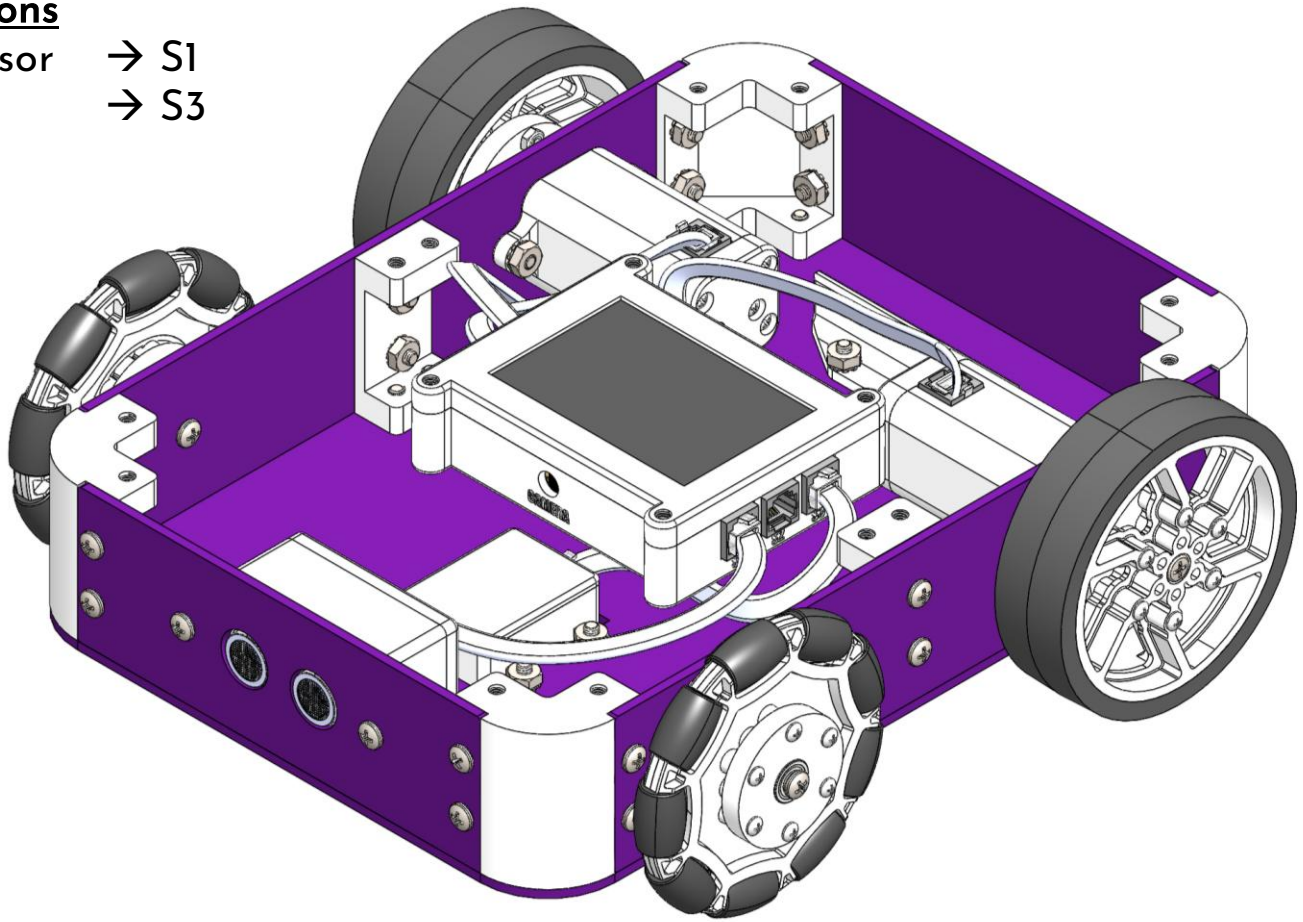
[WR]



x2

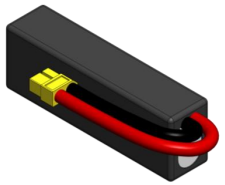
Wire Connections

Ultrasonic Sensor → S1
Light Sensor → S3



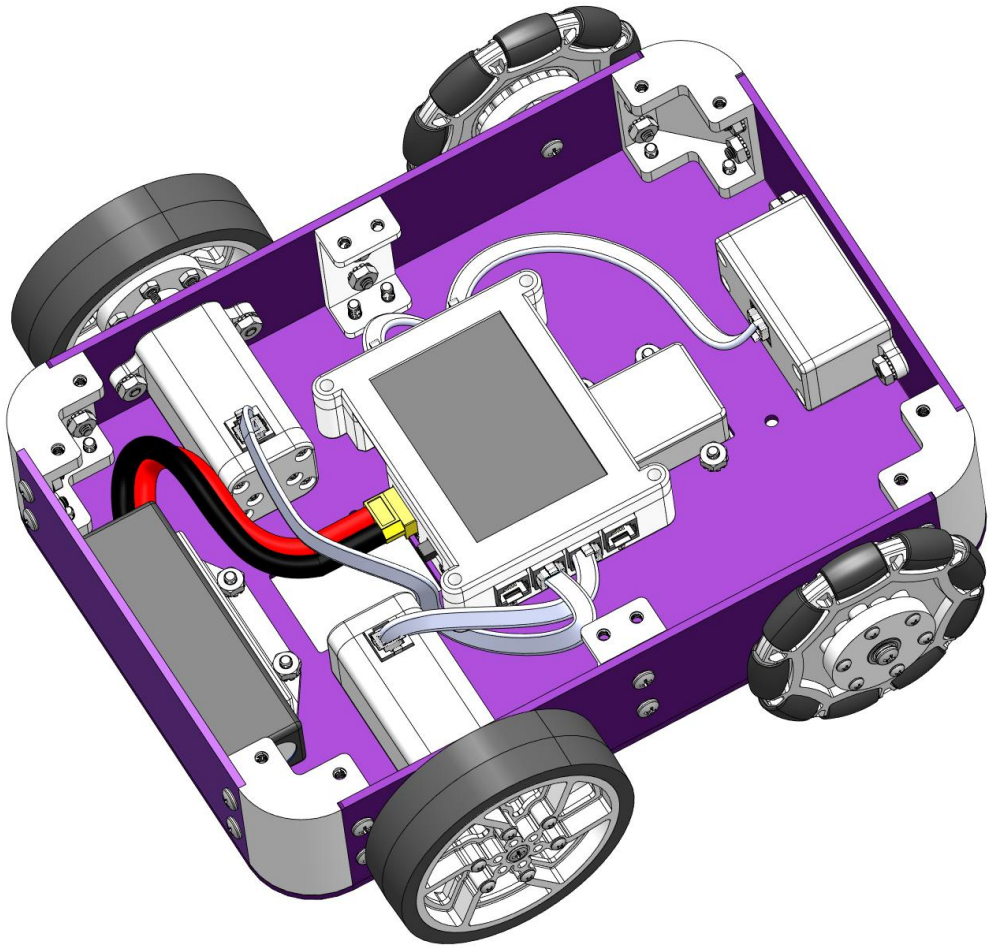
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[B]



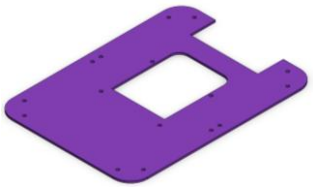
x1

21



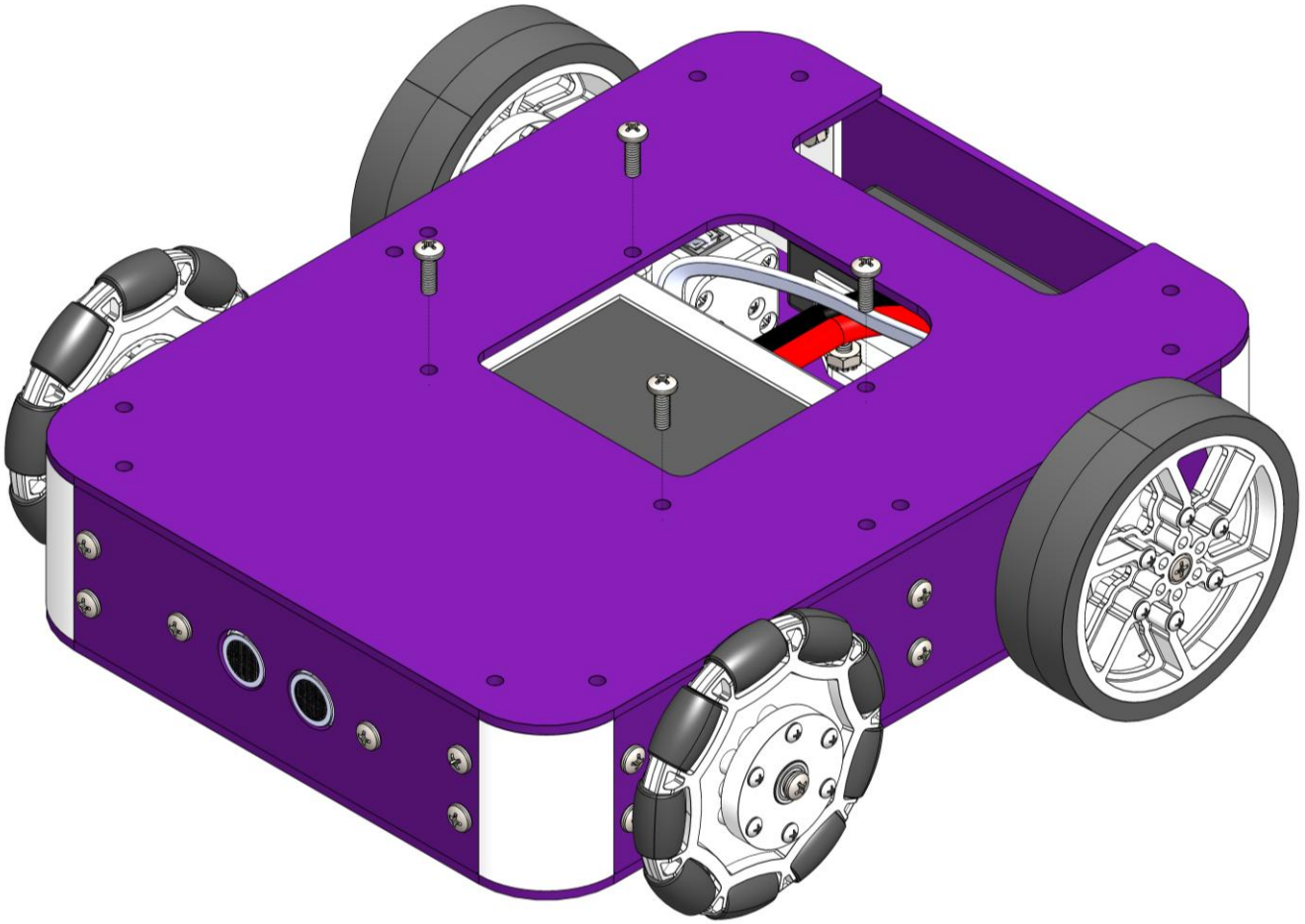
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[TP] x1



[S1] x4





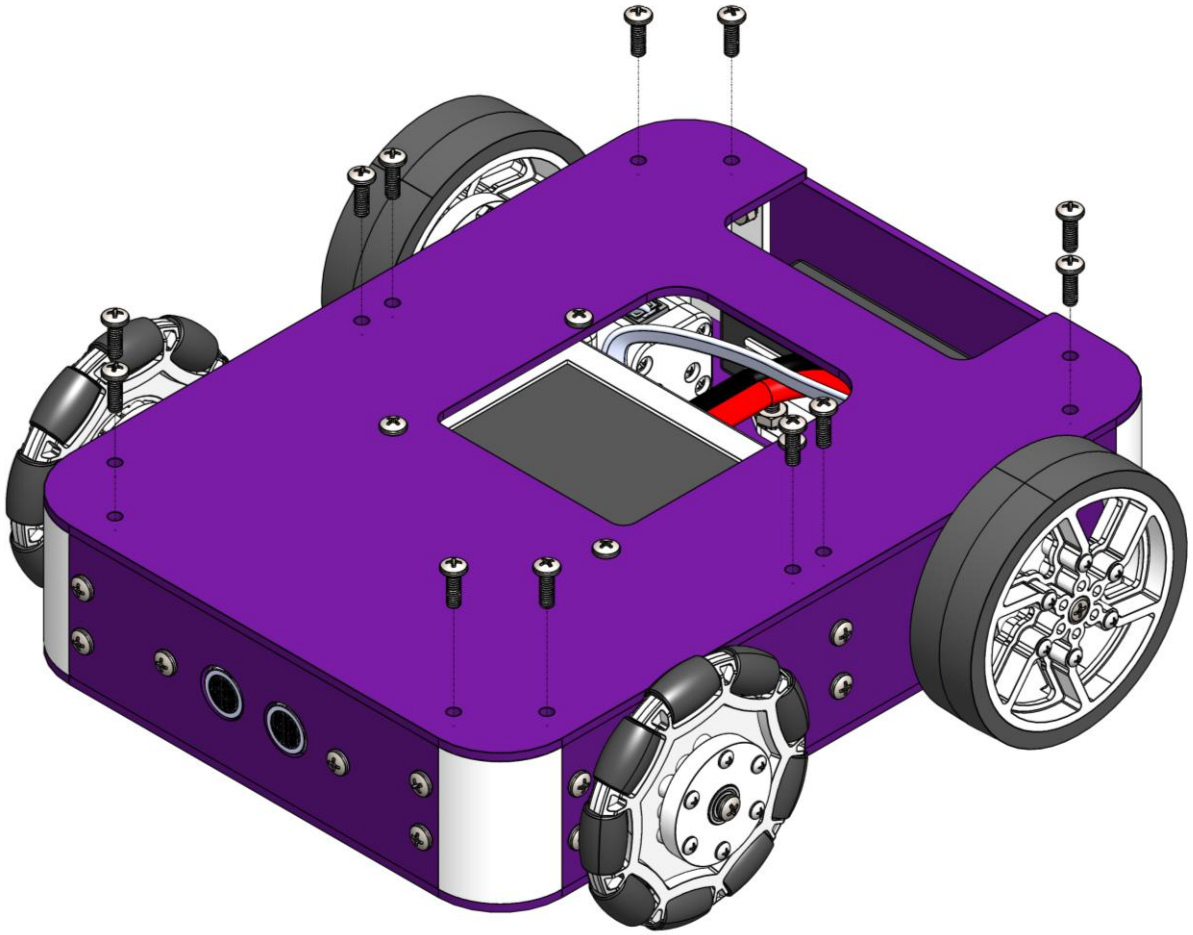
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[S1]

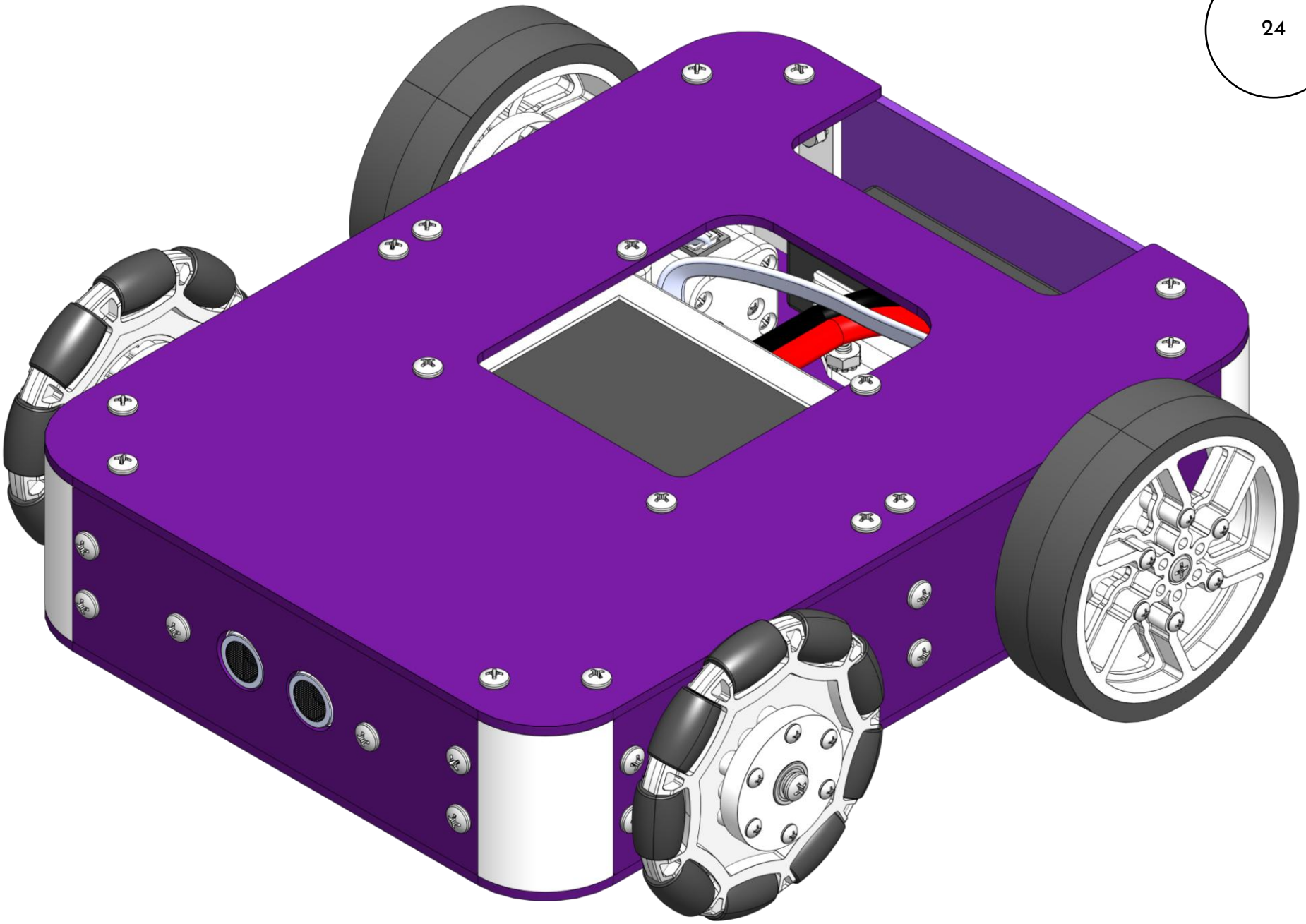


x12

23



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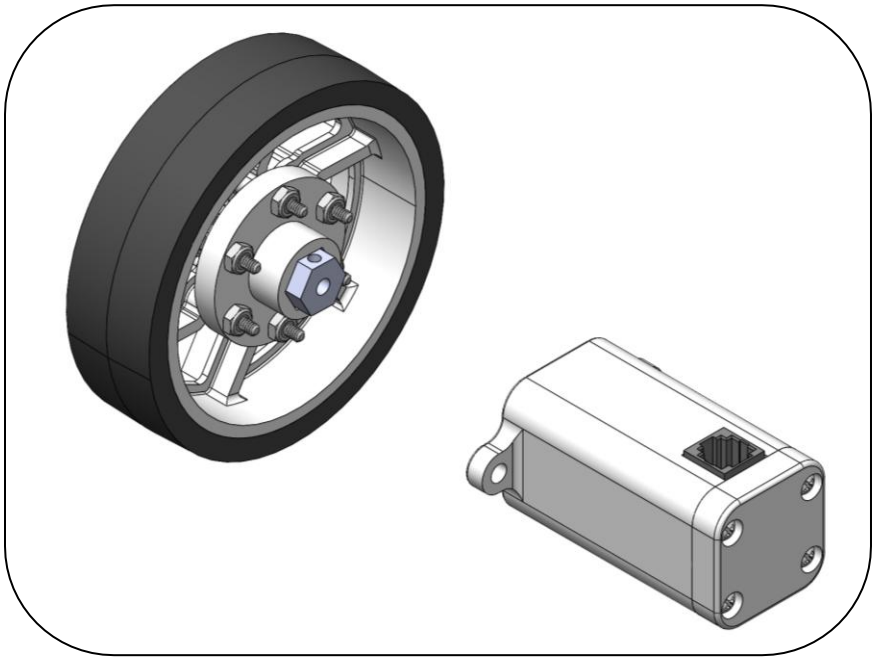


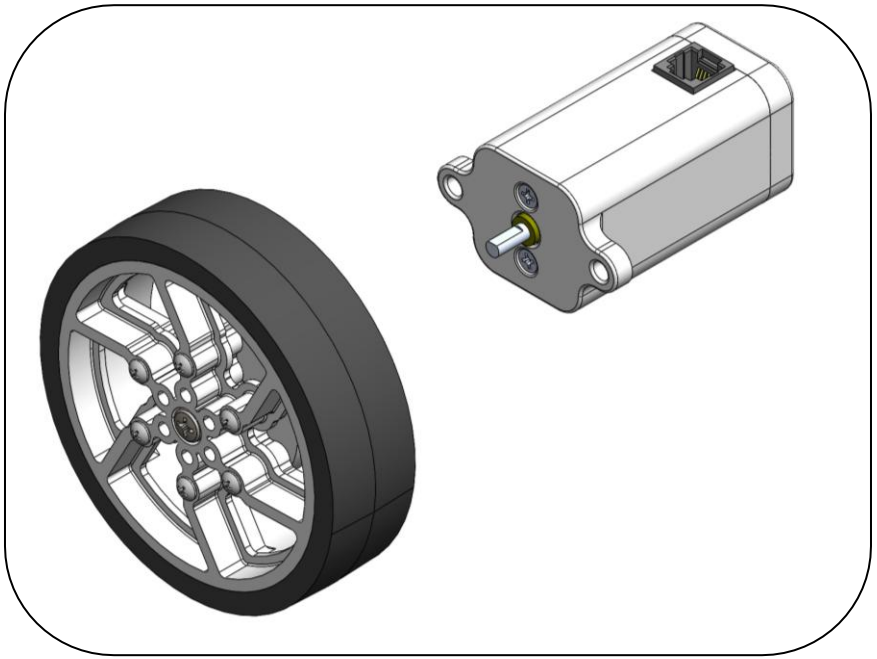
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ROBOT TROUBLESHOOTING

MOTOR WHEEL FALLING OFF

Sometimes the motor wheels loosen and fall off the robot and look like this:



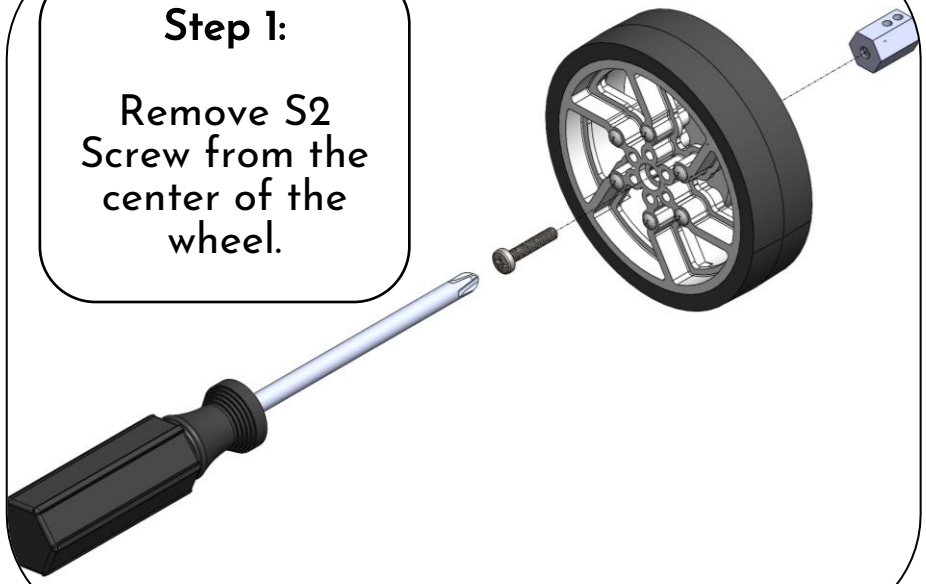


Follow the steps on the next page to fix this issue.

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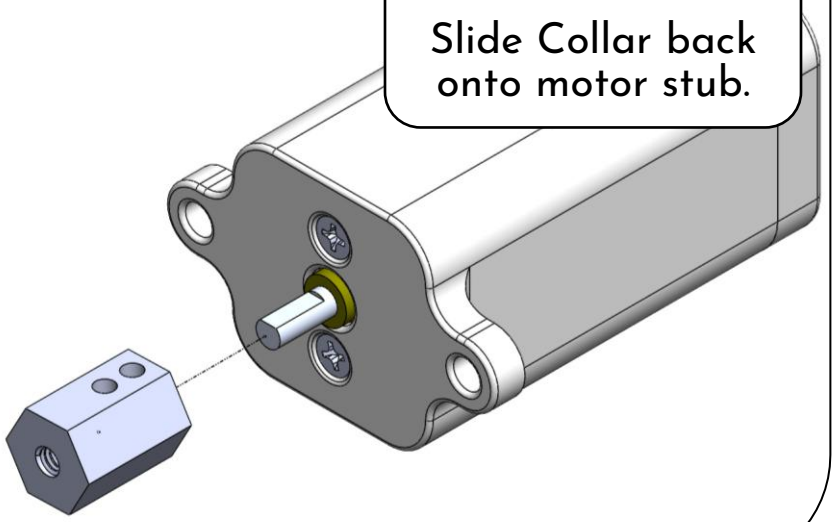
Step 1:

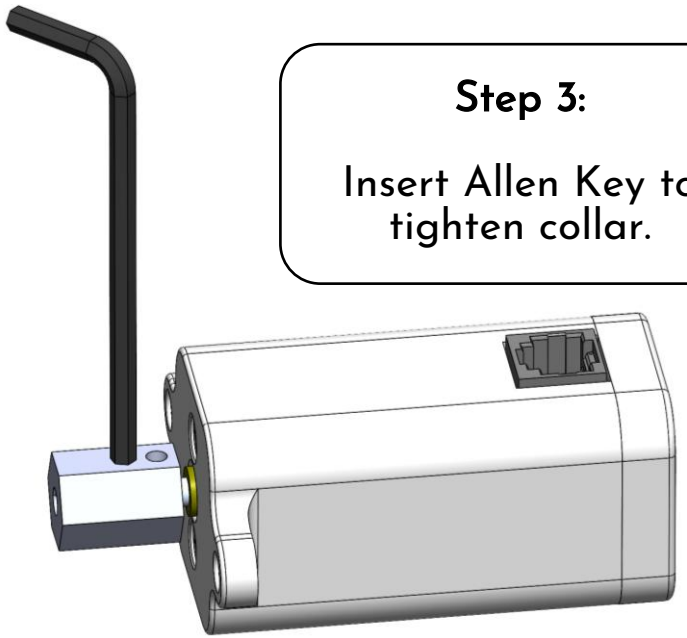
Remove S2 Screw from the center of the wheel.



Step 2:

Slide Collar back onto motor stub.



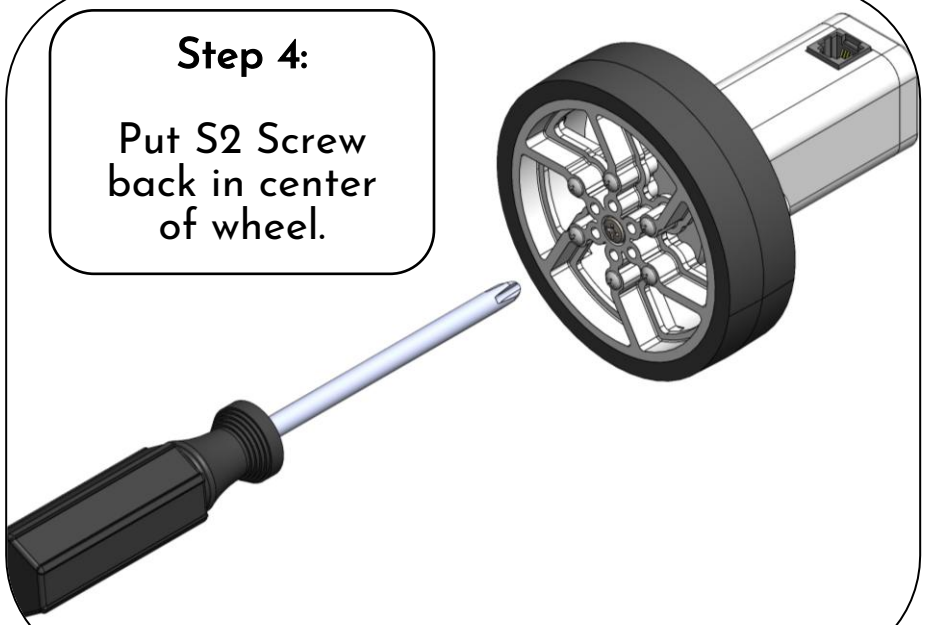


Step 3:

Insert Allen Key to tighten collar.

Step 4:

Put S2 Screw back in center of wheel.



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