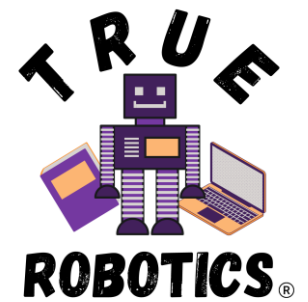
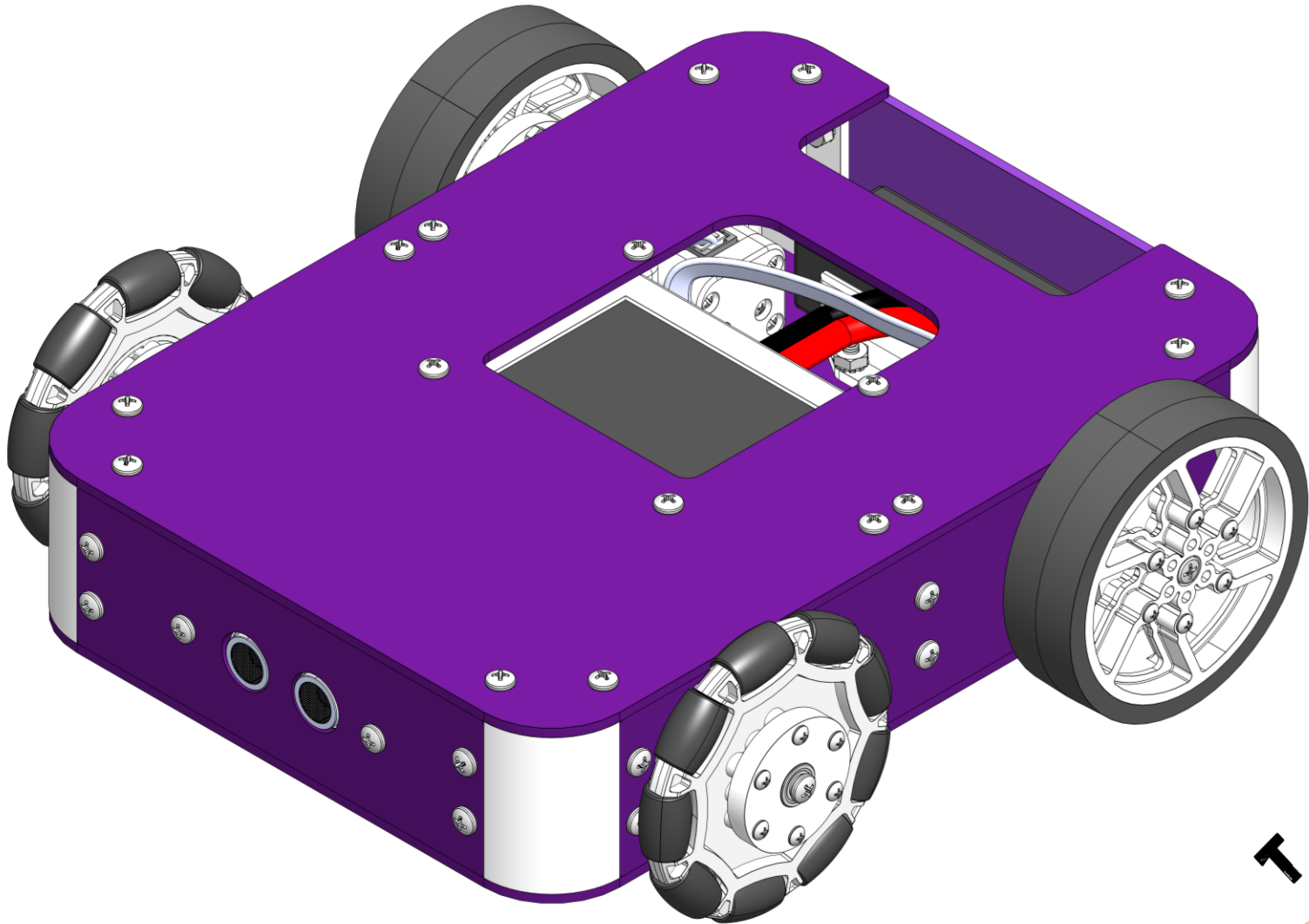

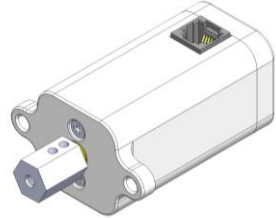
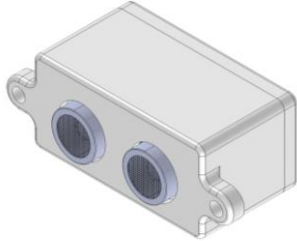
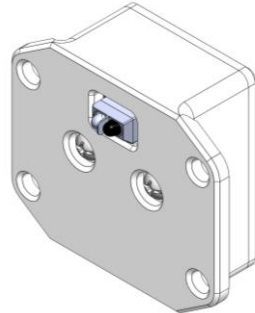

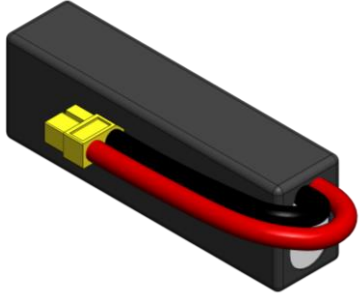

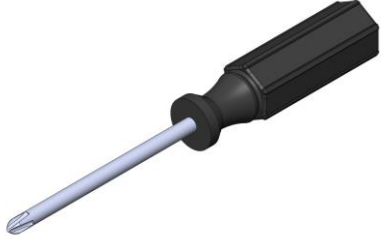
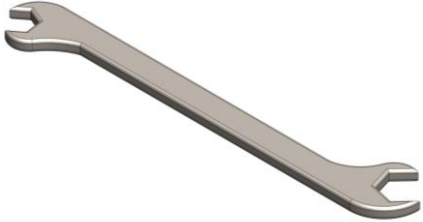




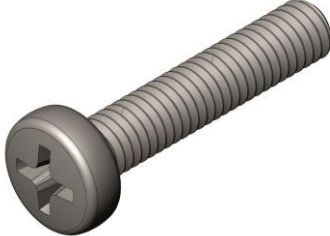
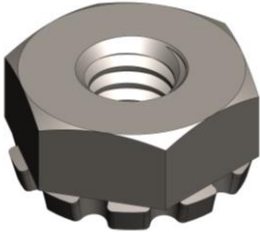
ASSEMBLY INSTRUCTIONS: AXLE

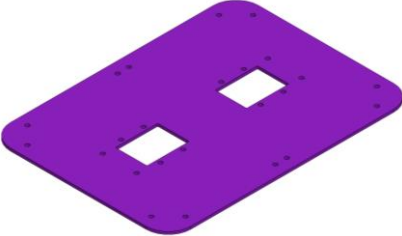
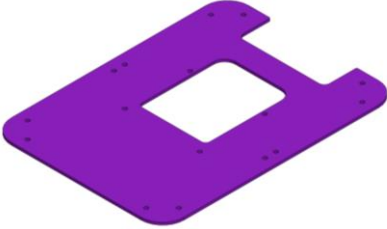

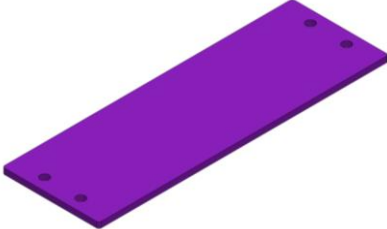



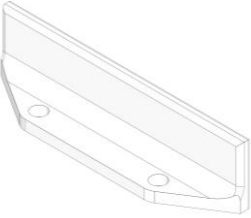
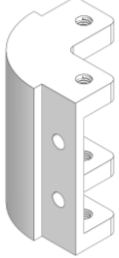
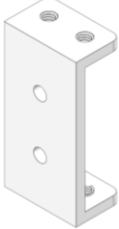


<p>1</p>	<p>CONTROLLER [C]</p>	
<p>2</p>	<p>USB C CORD [USBC]</p>	
<p>3</p>	<p>GAME CONTROLLER [GC]</p>	
<p>4</p>	<p>USBB [USBB]</p>	

<p>5</p>	<p>MOTOR [M]</p>	 A small, rectangular, grey motor component with a white connector on one end and a small black sensor on the top.
<p>6</p>	<p>ULTRASONIC SENSOR [US]</p>	 A rectangular, grey ultrasonic sensor component with two circular ports on the front face.
<p>7</p>	<p>LIGHT SENSOR [LS]</p>	 A square, grey light sensor component with a small lens in the center and four mounting holes at the corners.
<p>8</p>	<p>WIRE [WR]</p>	 A long, thin, grey wire component with connectors at both ends.

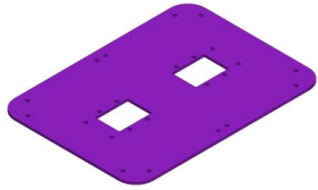
<p>9</p>	<p>BATTERY [B]</p>	
<p>10</p>	<p>BATTERY CHARGER [BC]</p>	
<p>11</p>	<p>SCREWDRIVER [SD]</p>	
<p>12</p>	<p>OPEN WRENCH [OW]</p>	

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

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

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

[BTP]



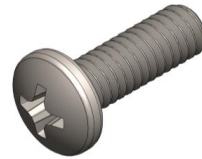
x1

[CM]

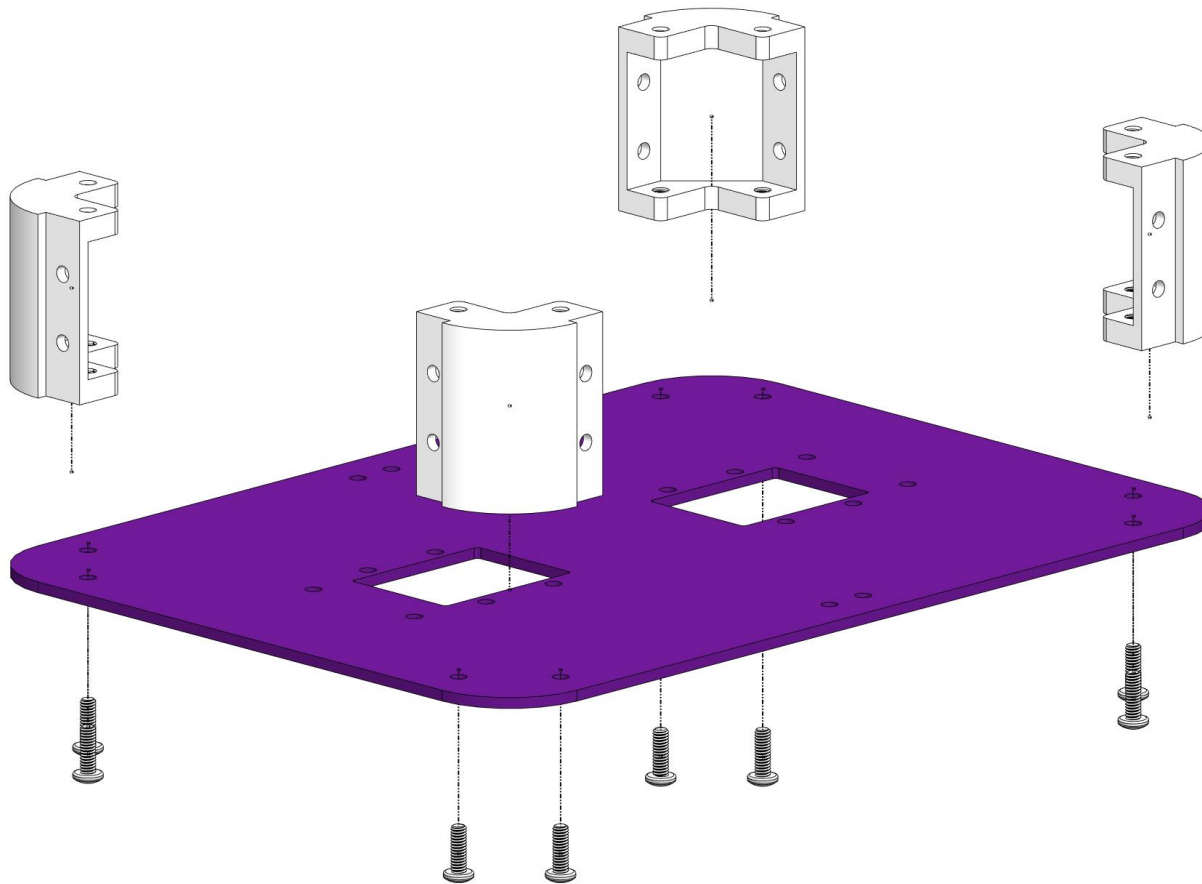
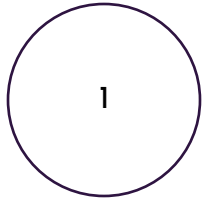


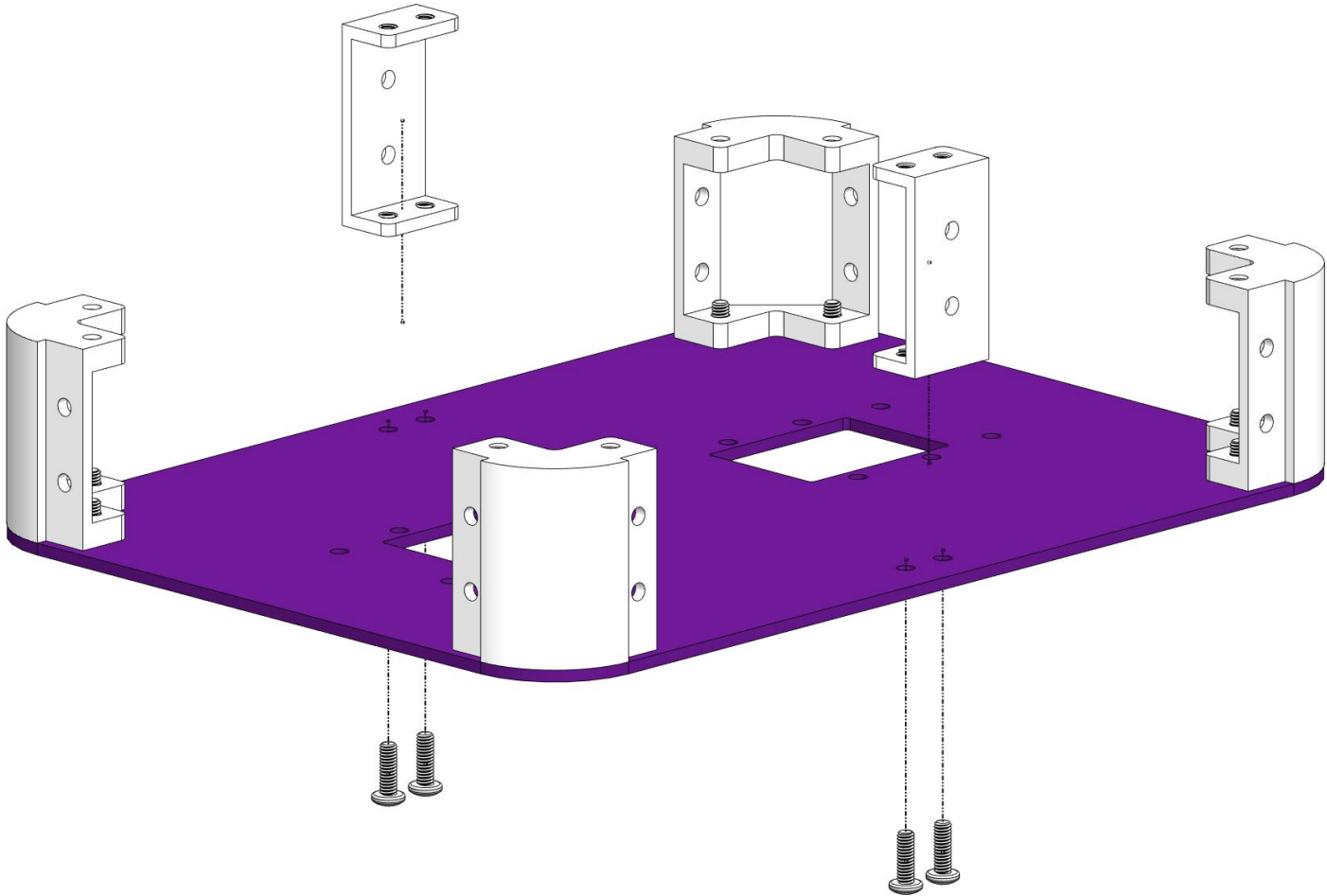
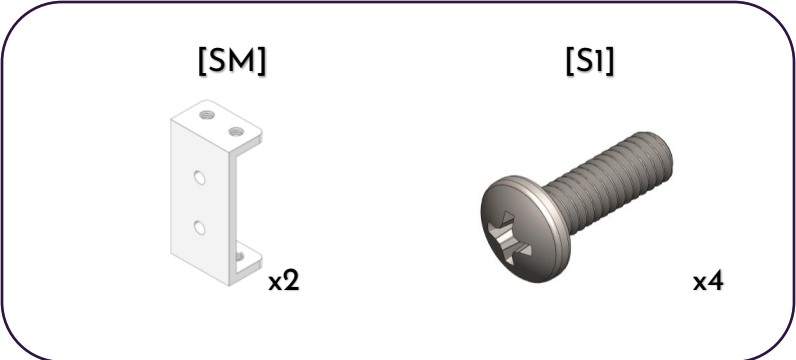
x4

[S1]



x8



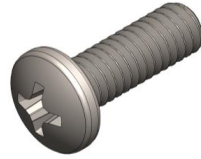


[SP]



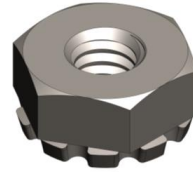
x1

[S1]



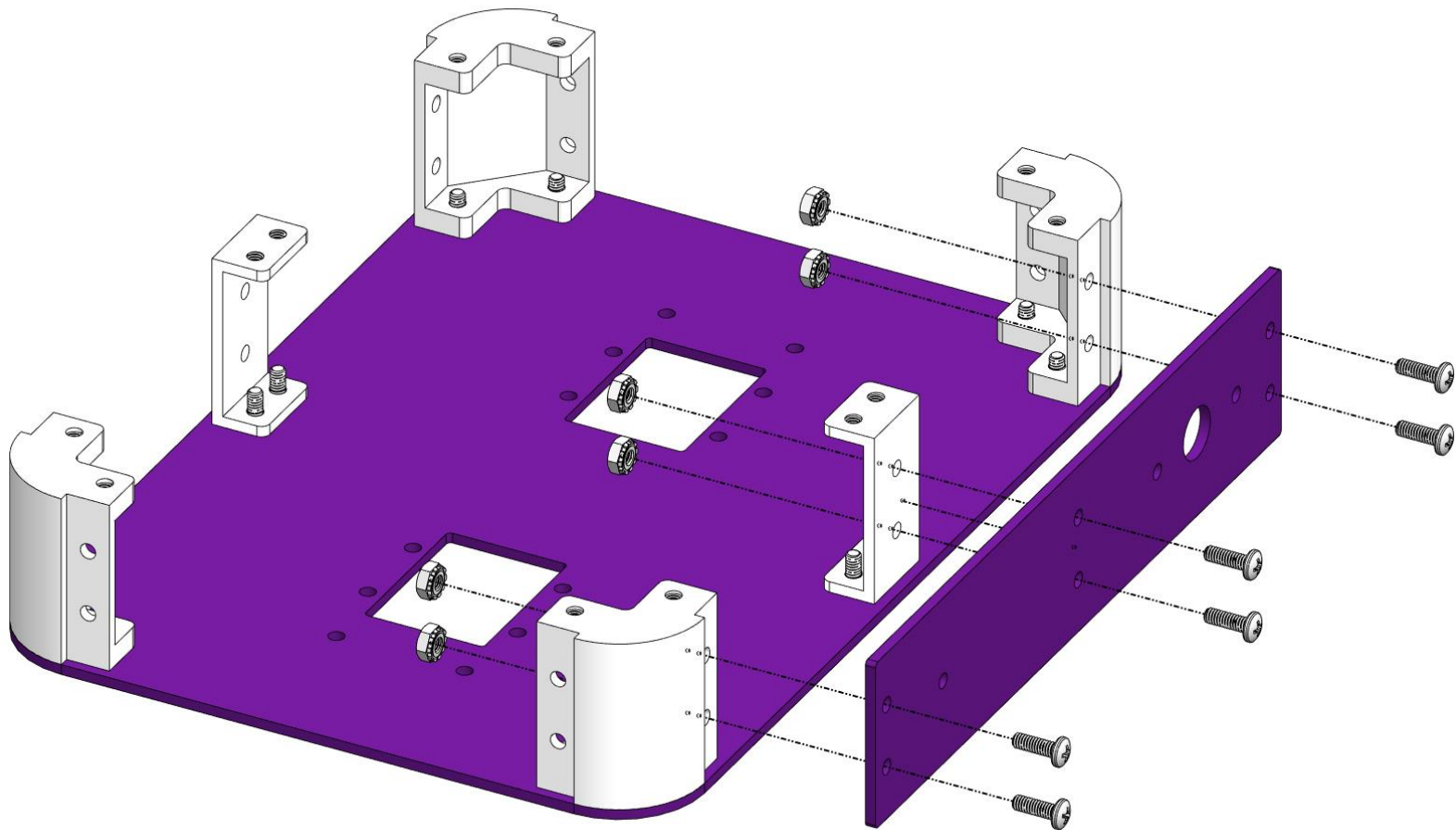
x6

[N1]



x6

3



[SP]



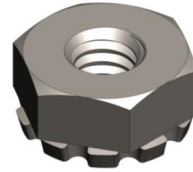
x1

[S1]



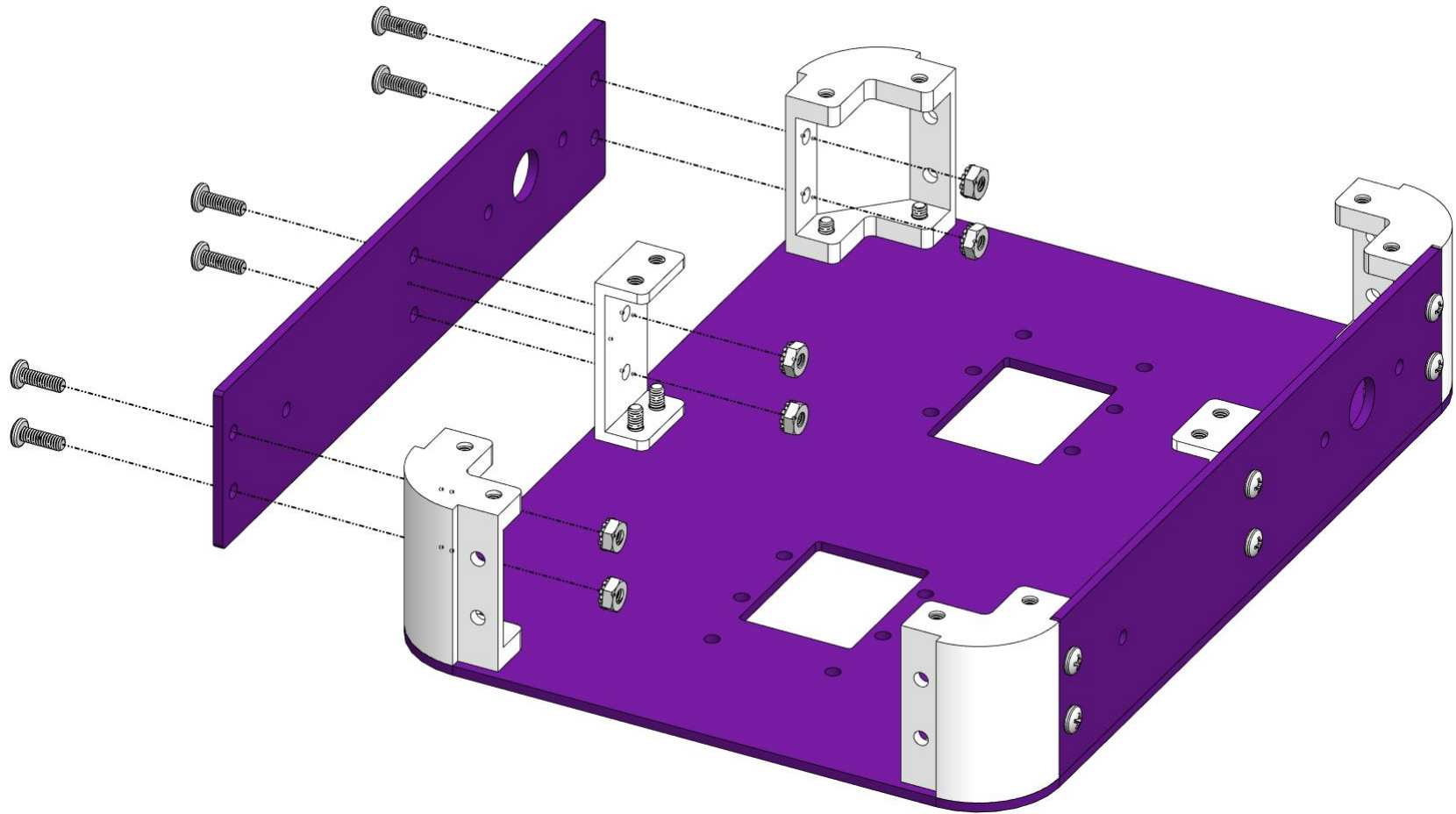
x6

[N1]



x6

4



[FP]



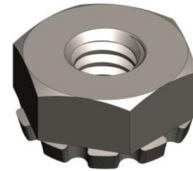
x1

[S1]



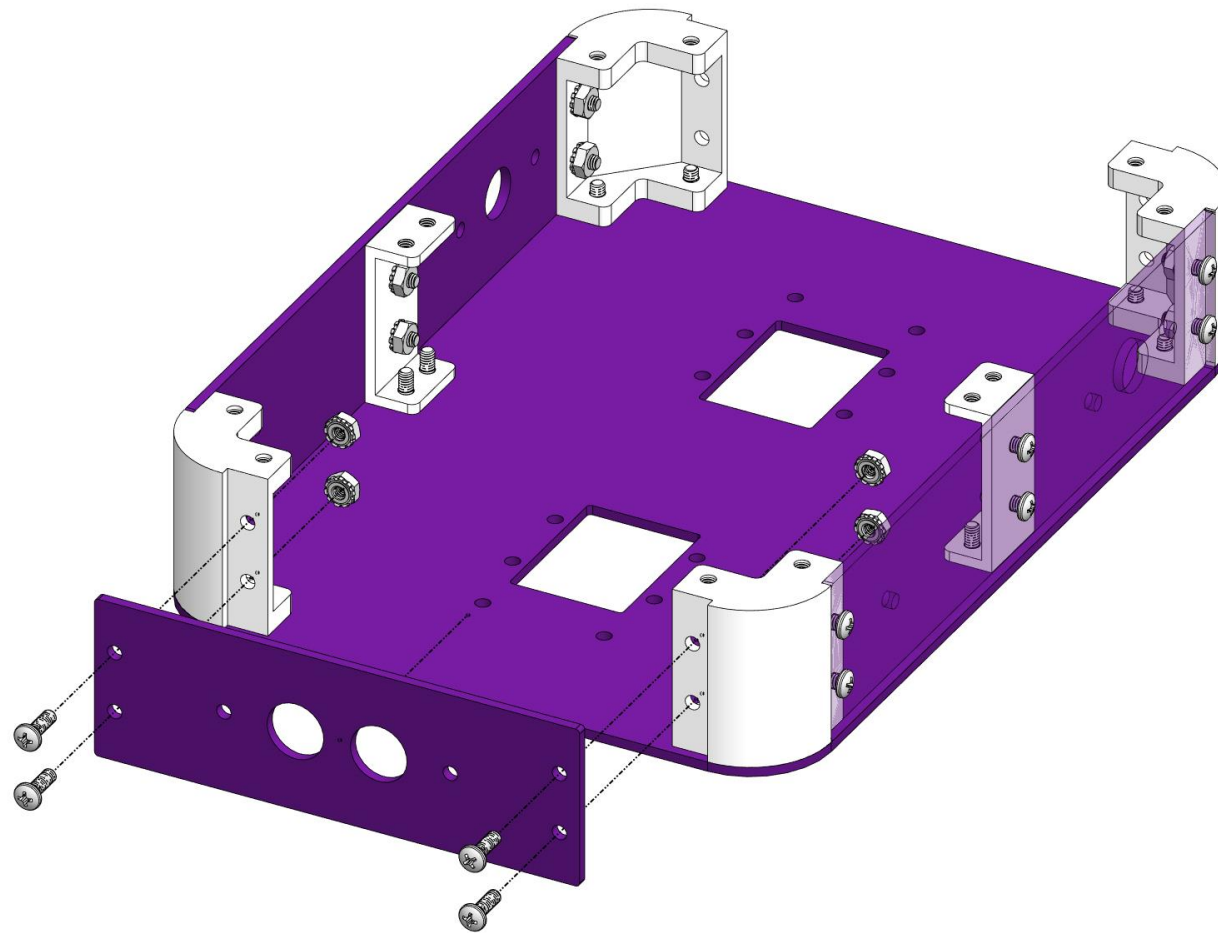
x4

[N1]



x4

5



[BP]



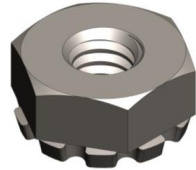
x1

[S1]



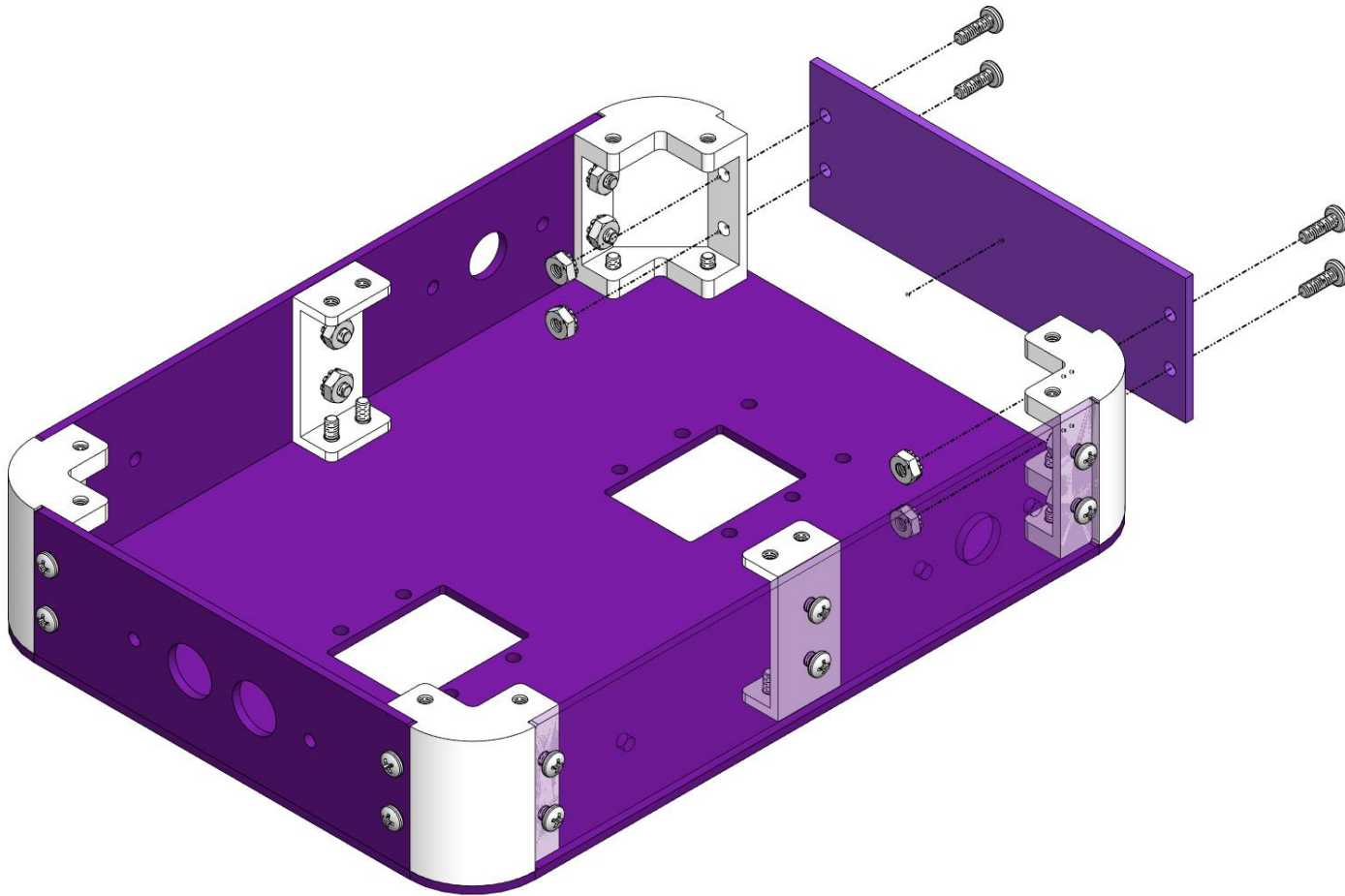
x4

[N1]

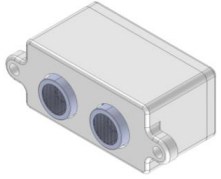


x4

6



[US]



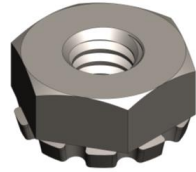
x1

[S1]



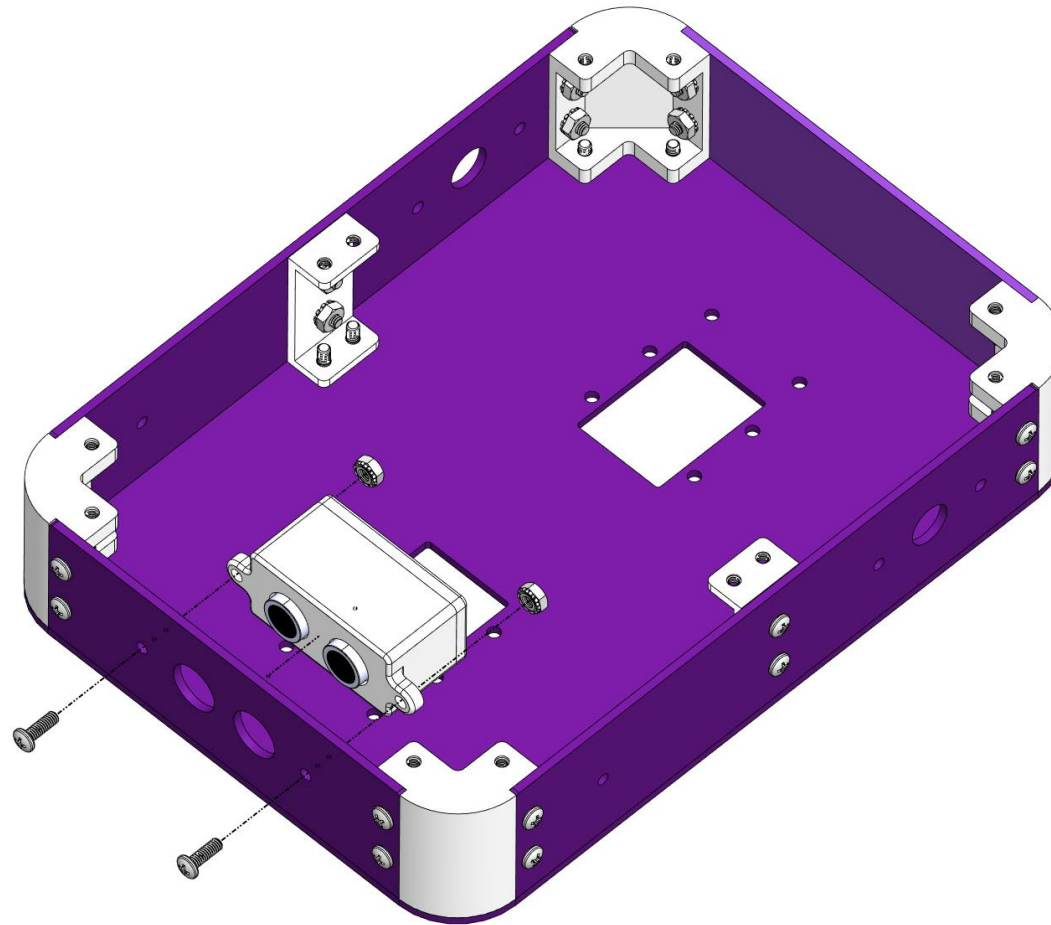
x2

[N1]

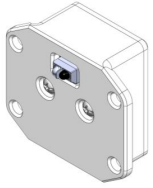


x2

7



[LS]



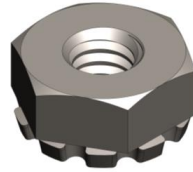
x1

[S1]



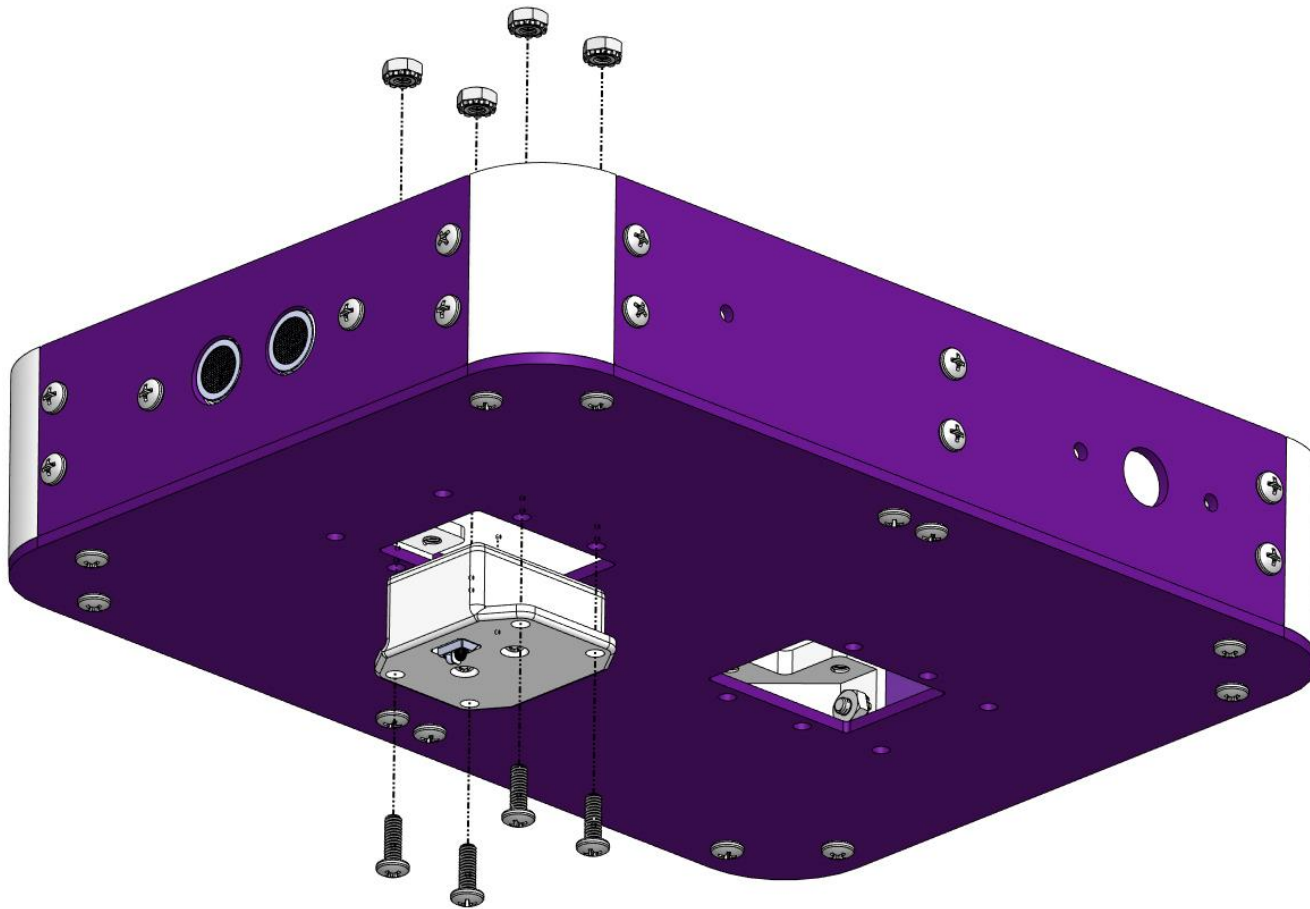
x4

[N1]

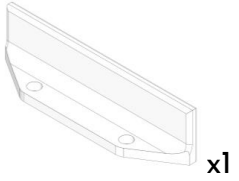


x4

8



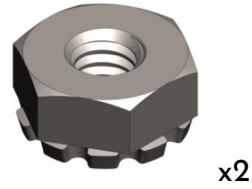
[BH]



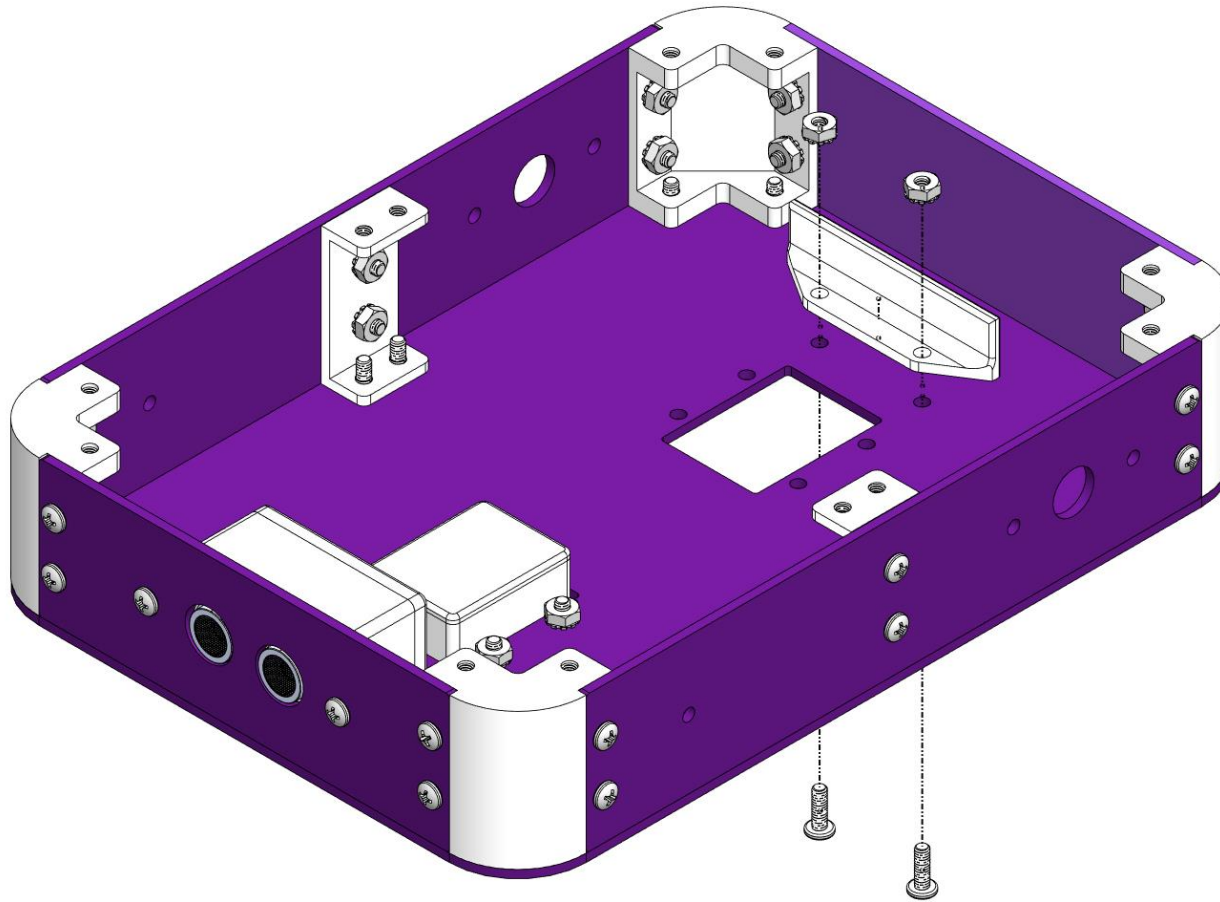
[S1]



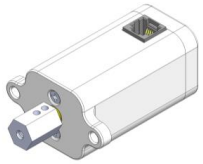
[N1]



9

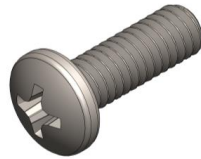


[M]



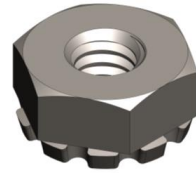
x1

[S1]



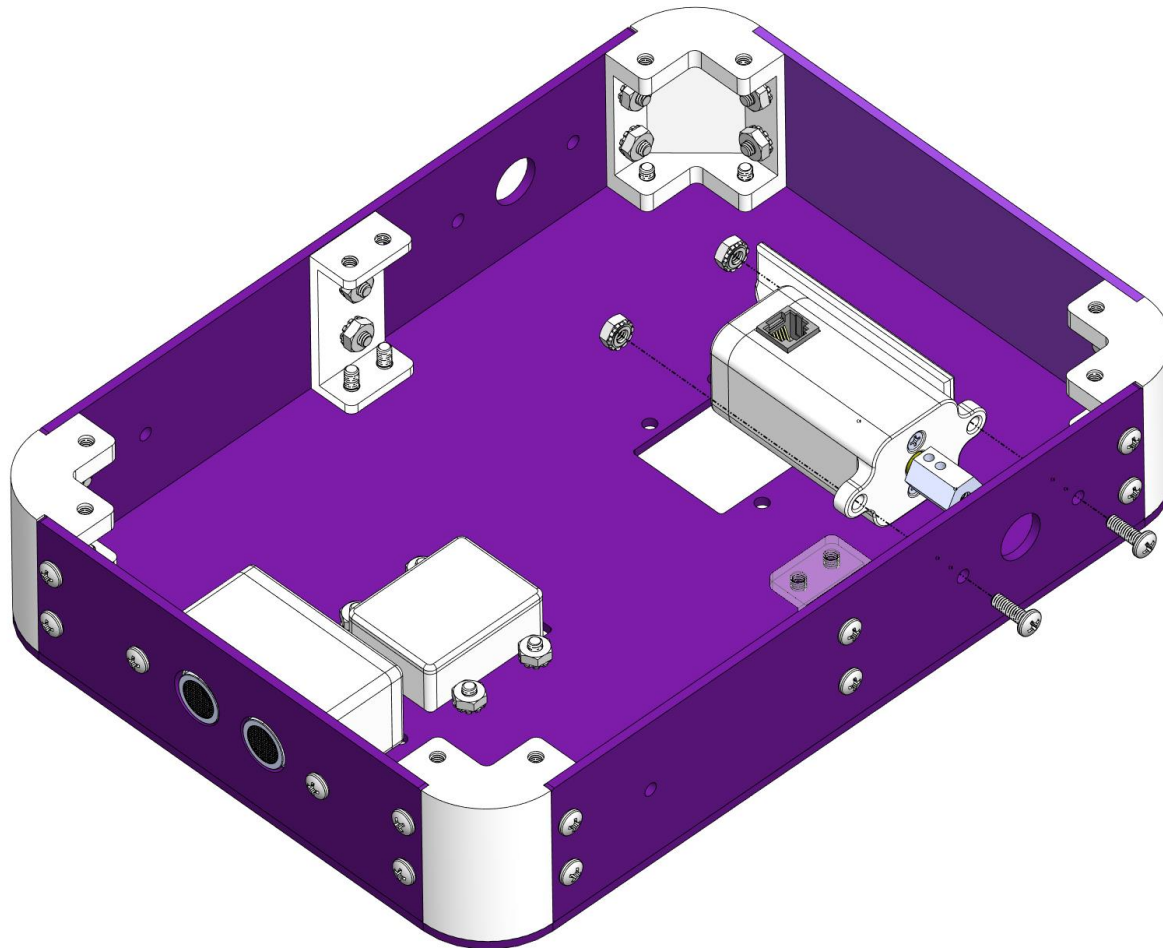
x2

[N1]

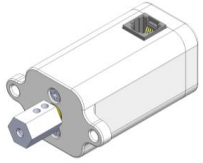


x2

10



[M]



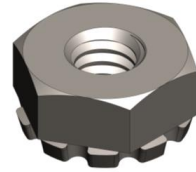
x1

[S1]



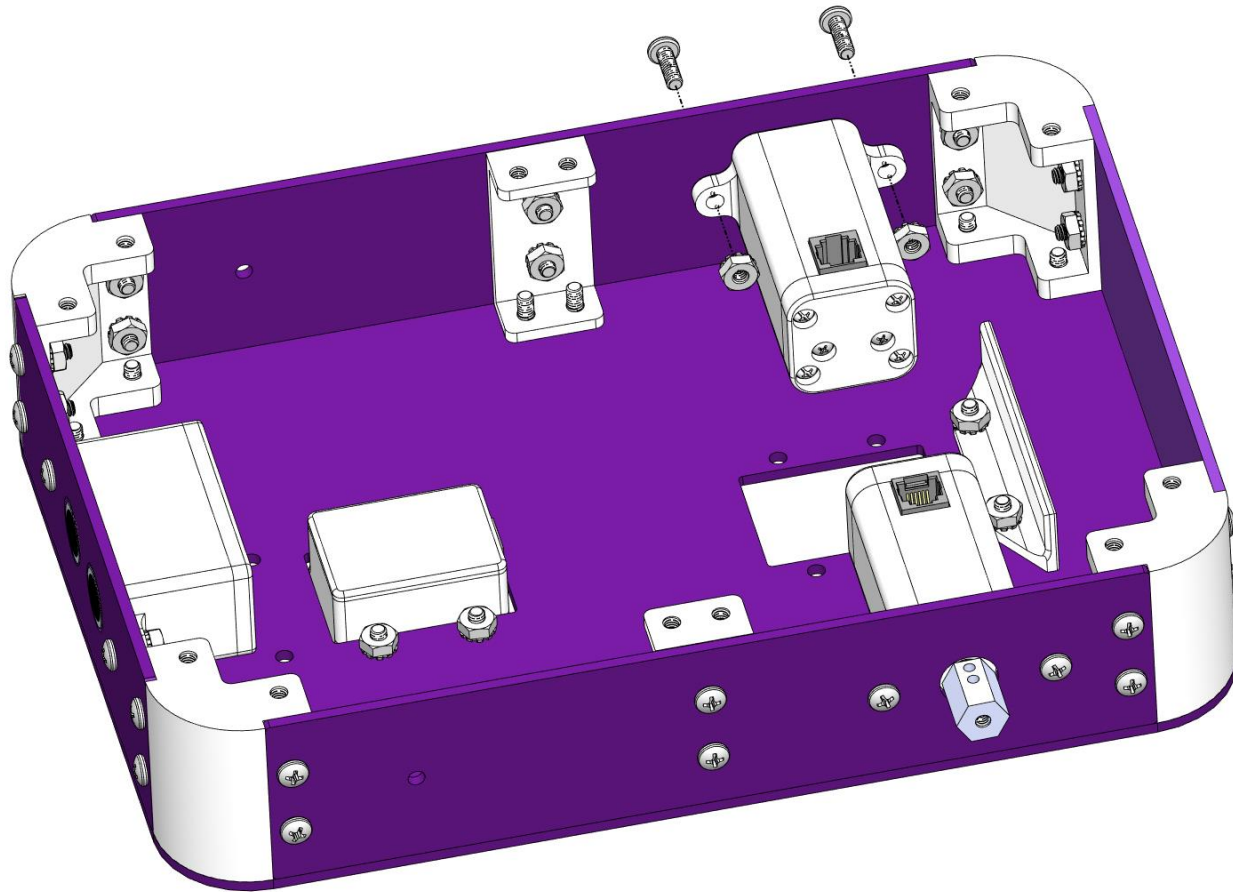
x2

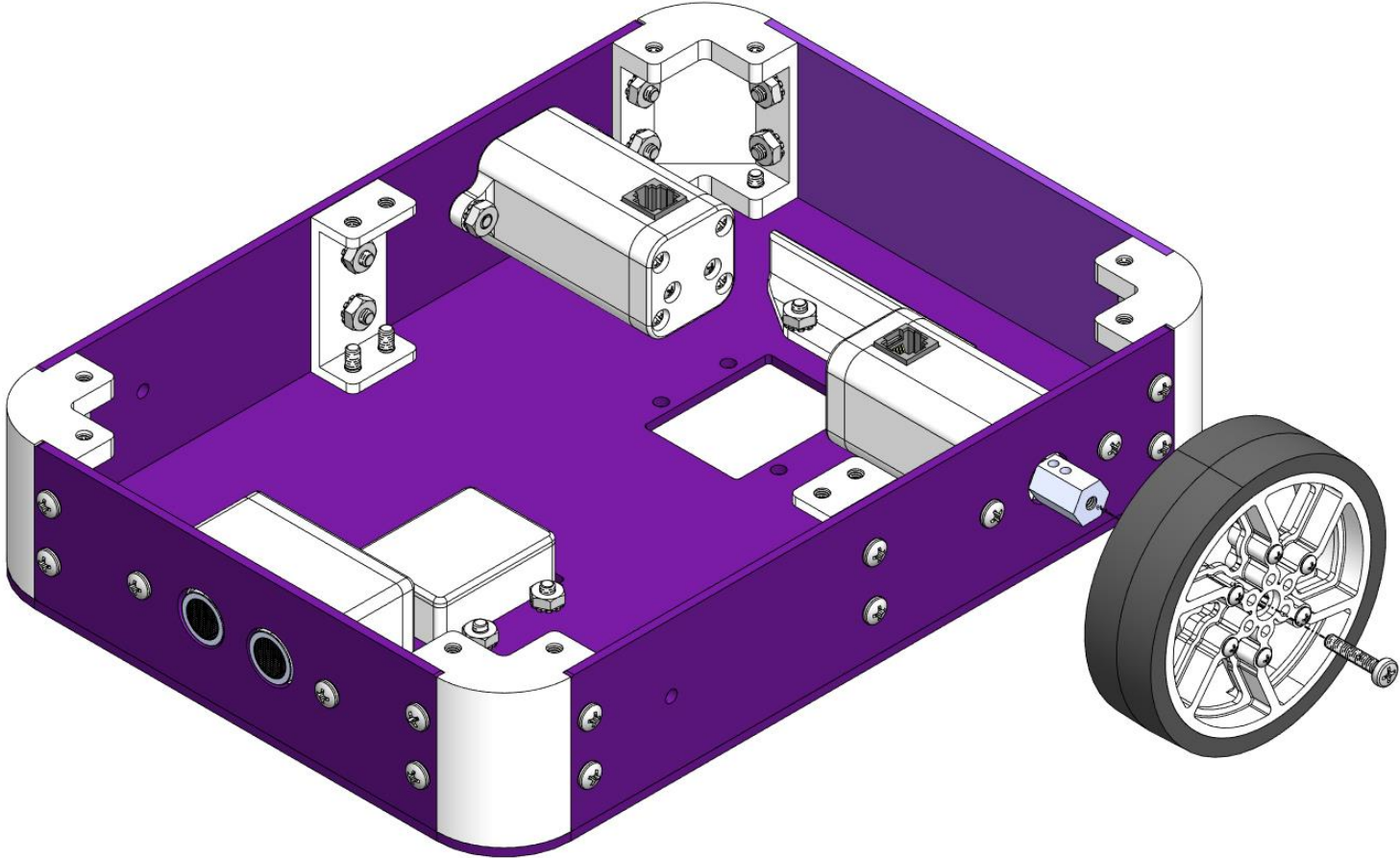
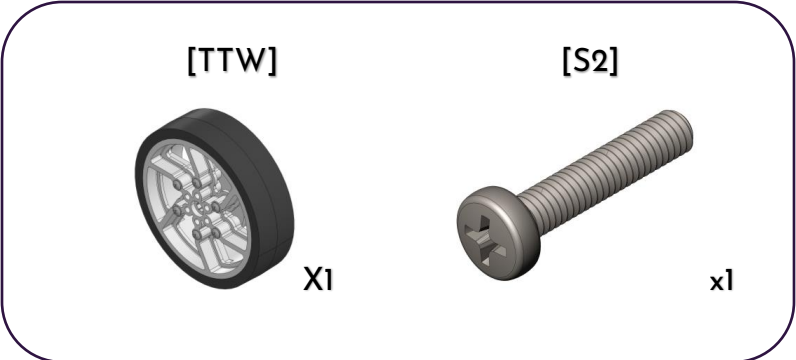
[N1]

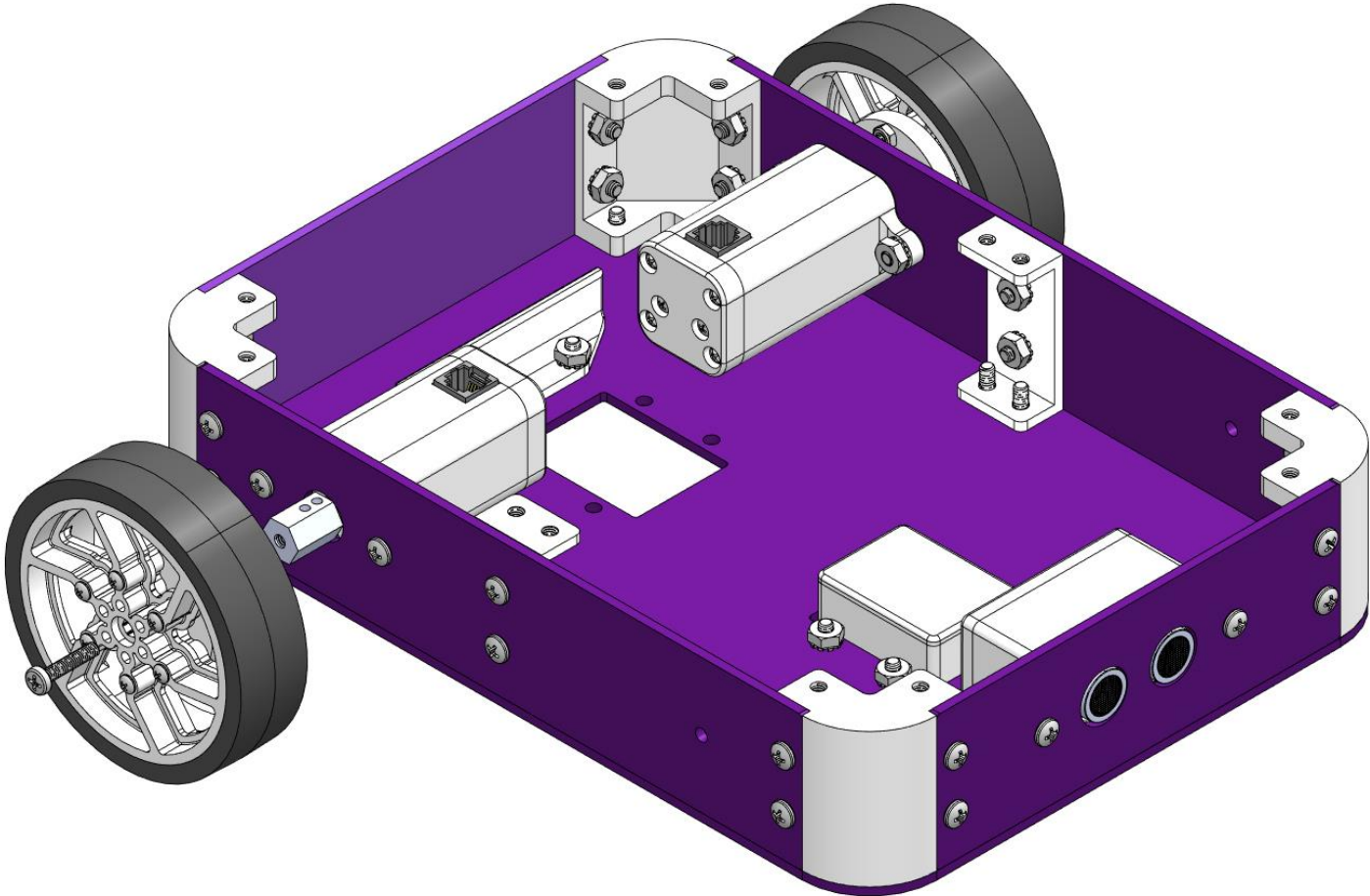
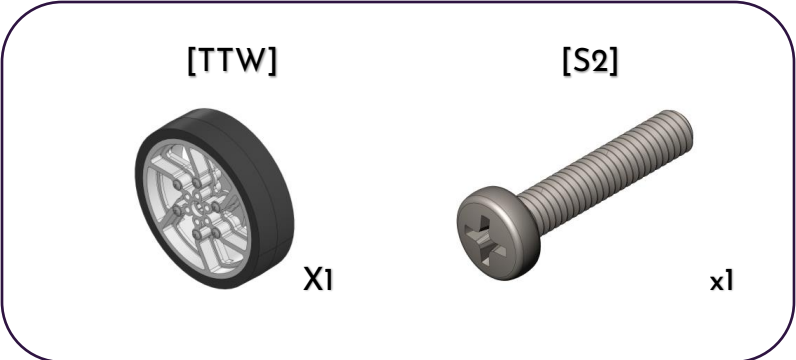


x2

11







[SO]



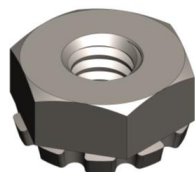
x1

[S1]



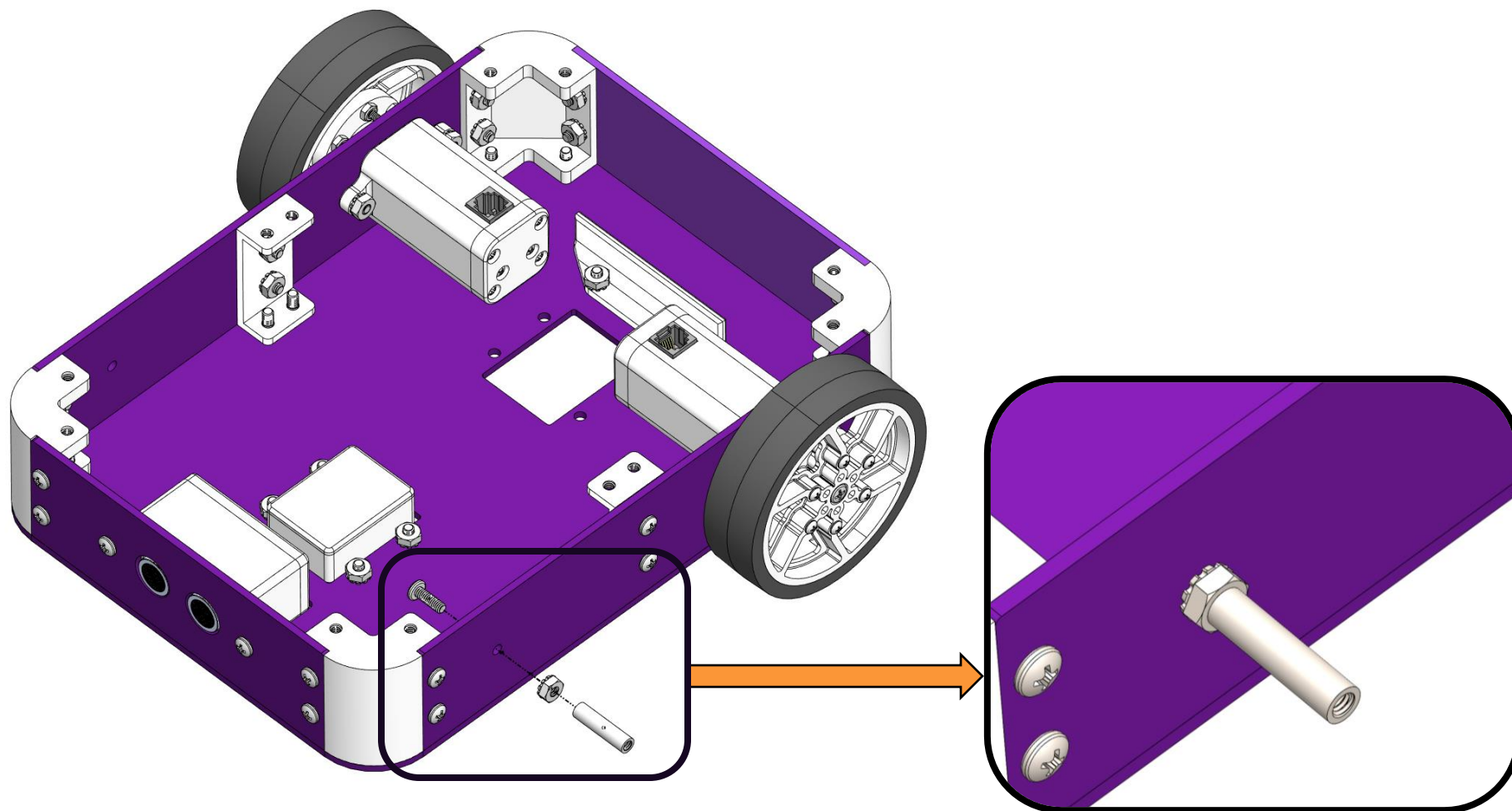
x1

[N1]



x1

14

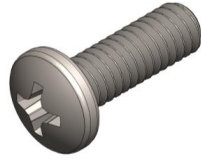


[SO]



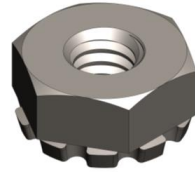
x1

[S1]



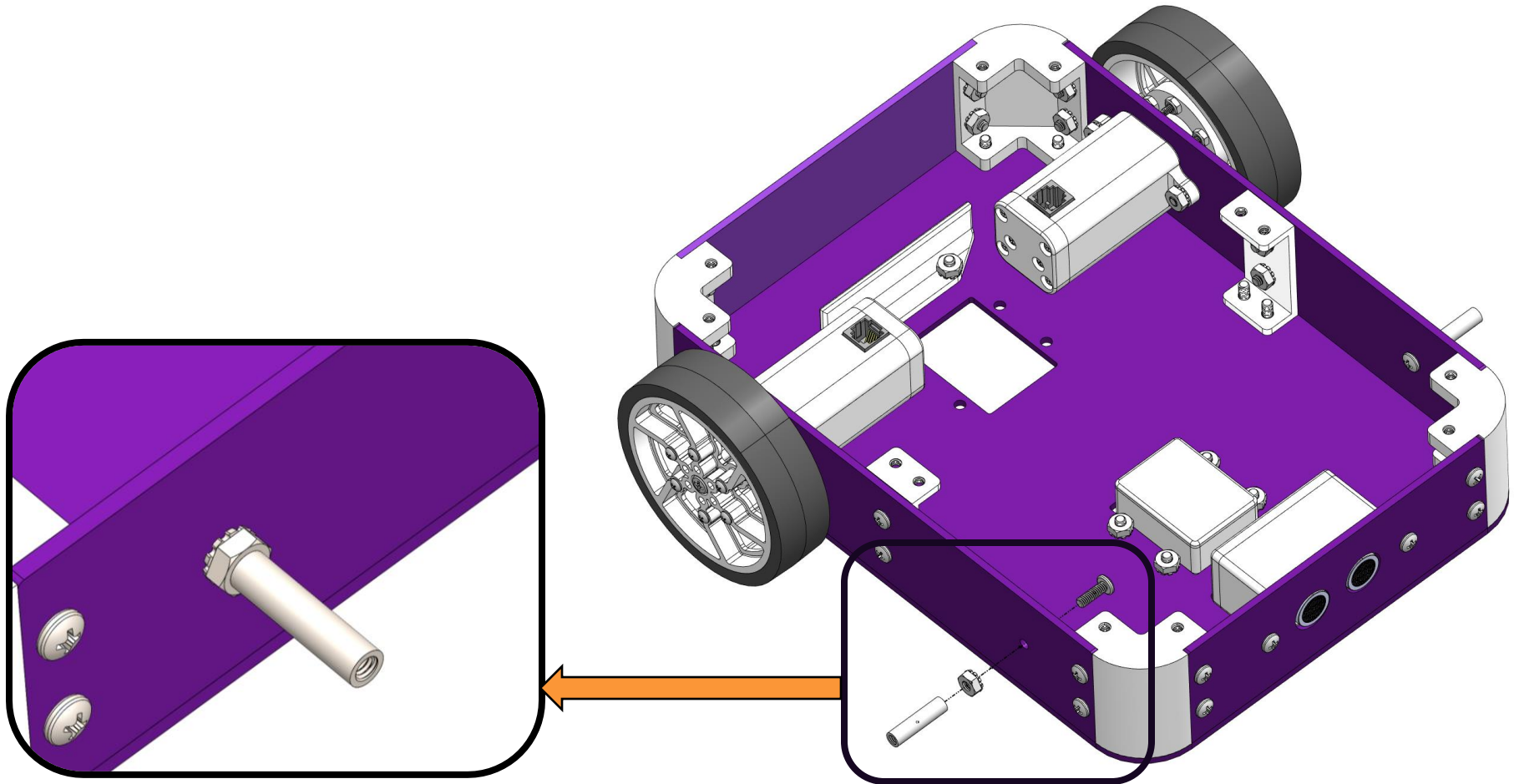
x1

[N1]



x1

15



[OMW]



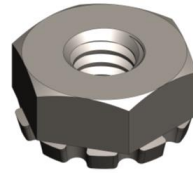
x1

[S1]



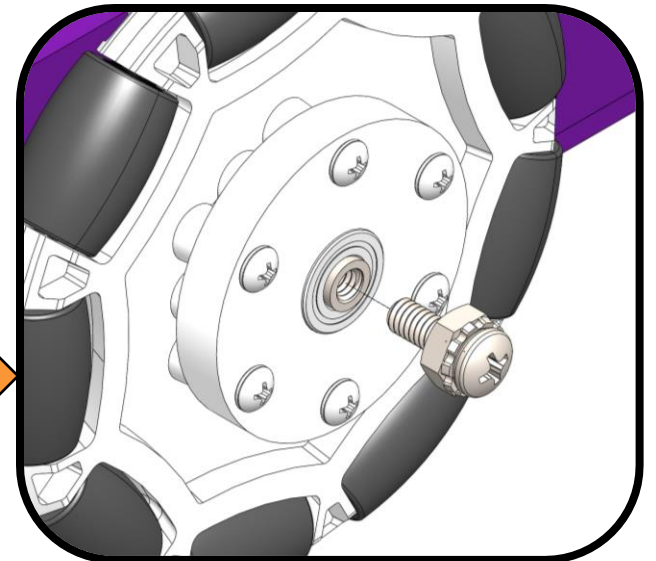
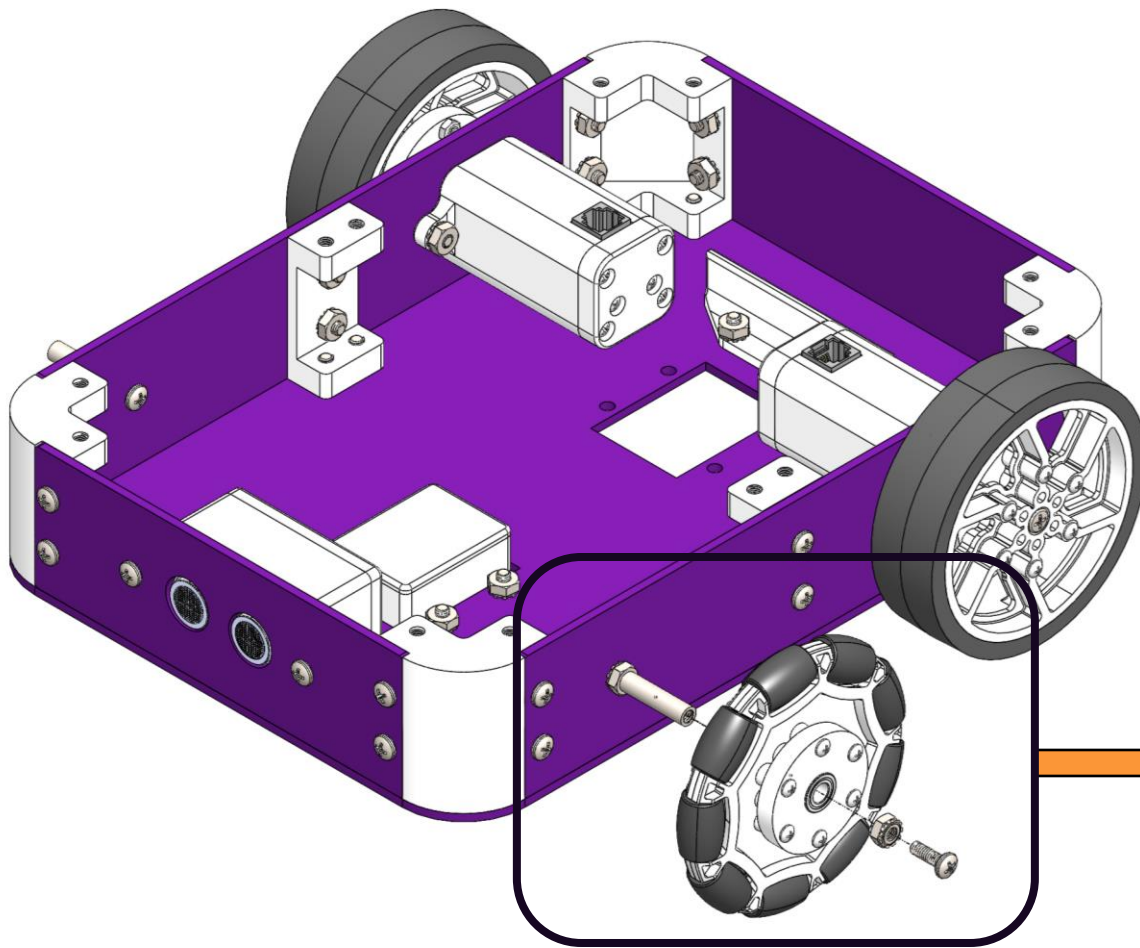
x1

[N1]



x1

16



[OMW]



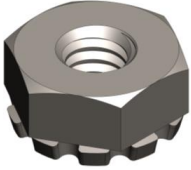
x1

[S1]

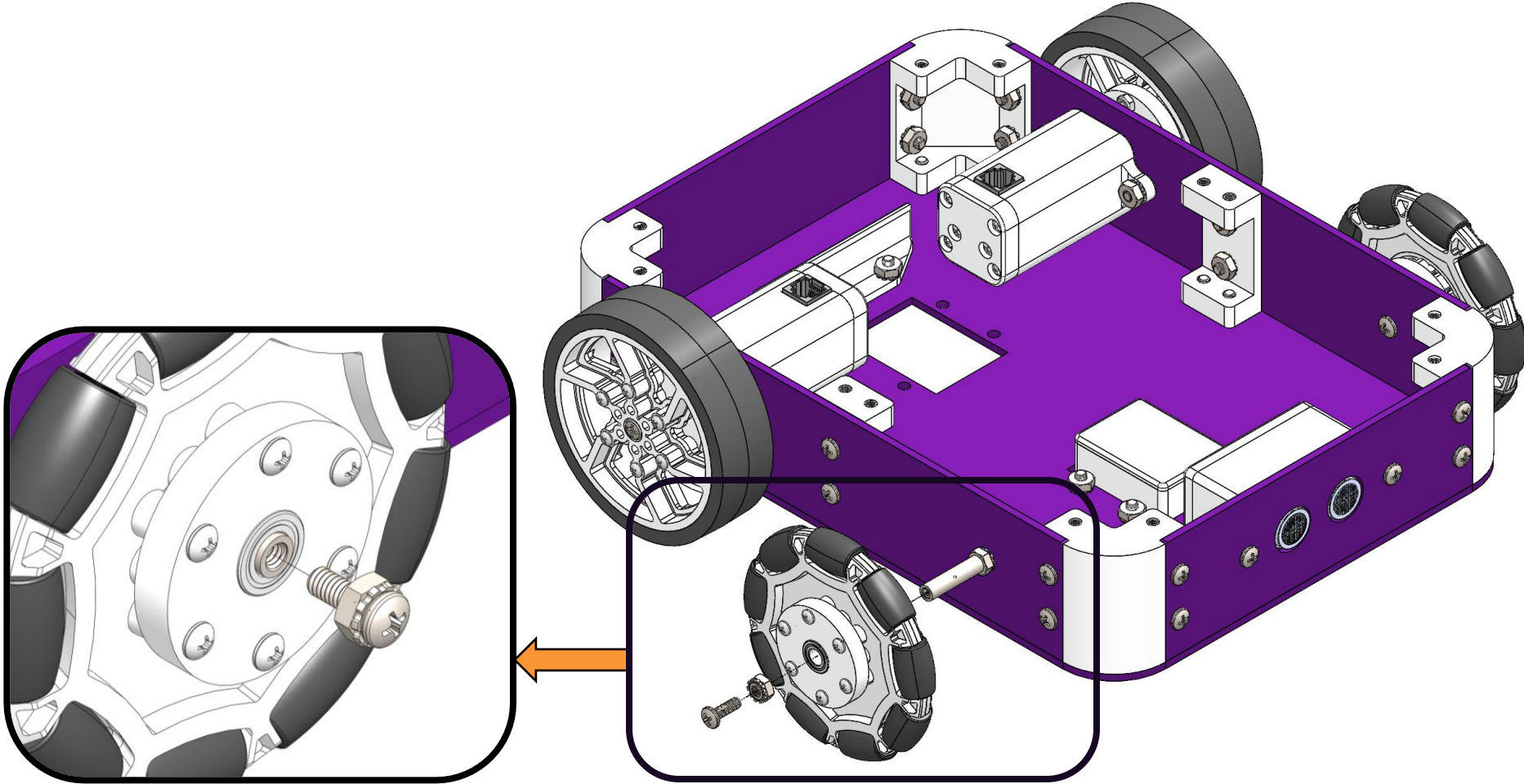


x1

[N1]



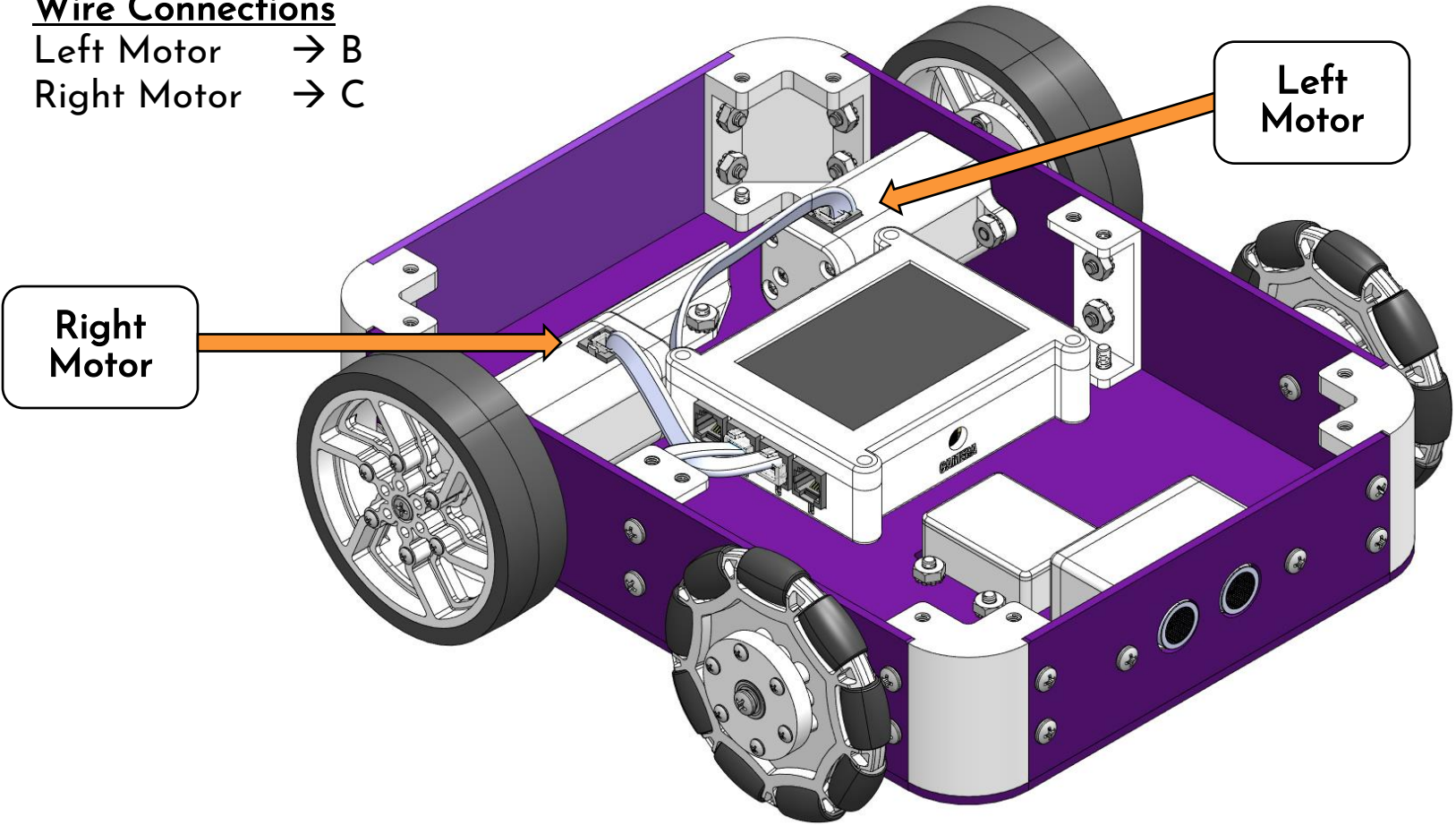
x1

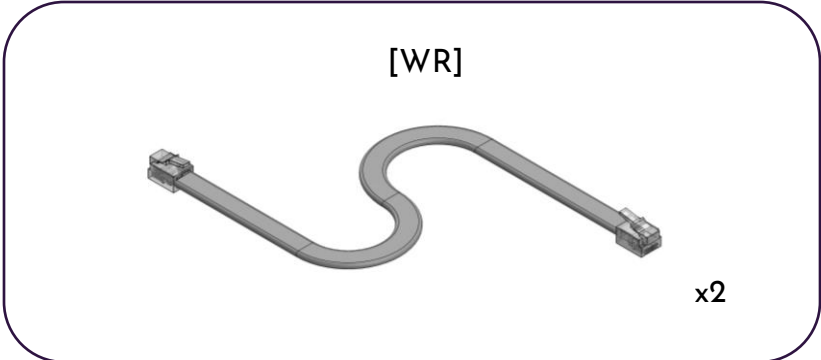




Wire Connections

- Left Motor → B
- Right Motor → C

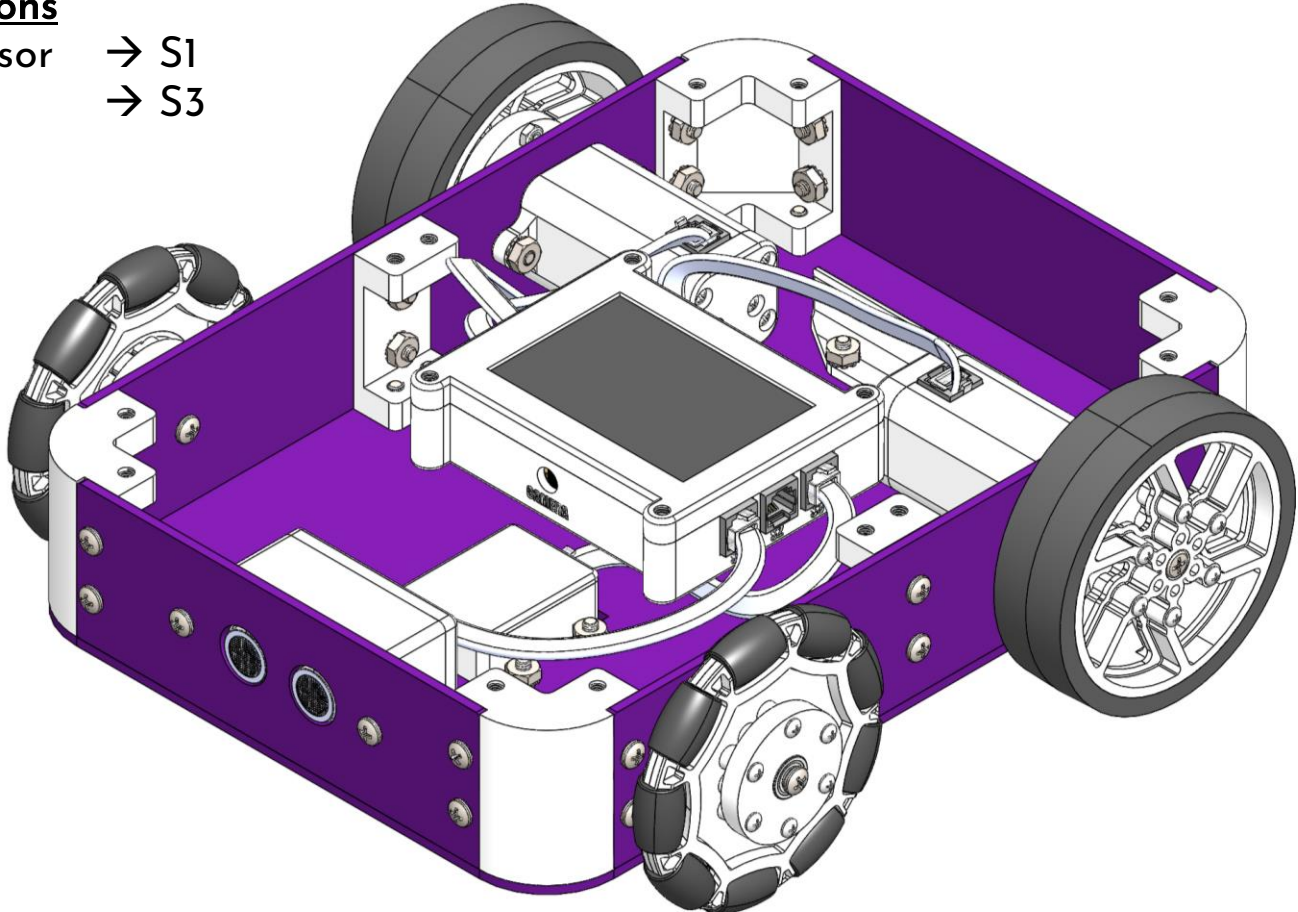




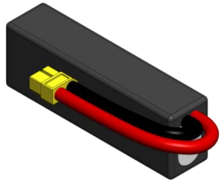
Wire Connections

Ultrasonic Sensor → S1

Light Sensor → S3

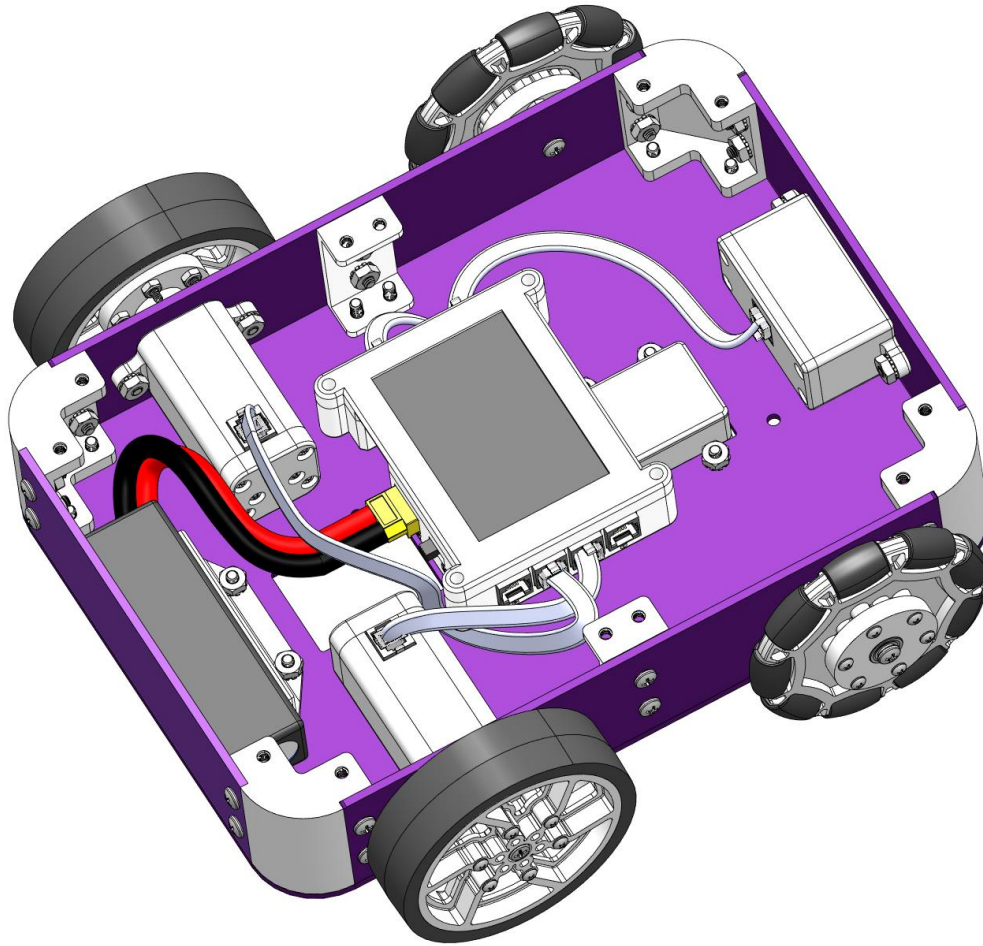


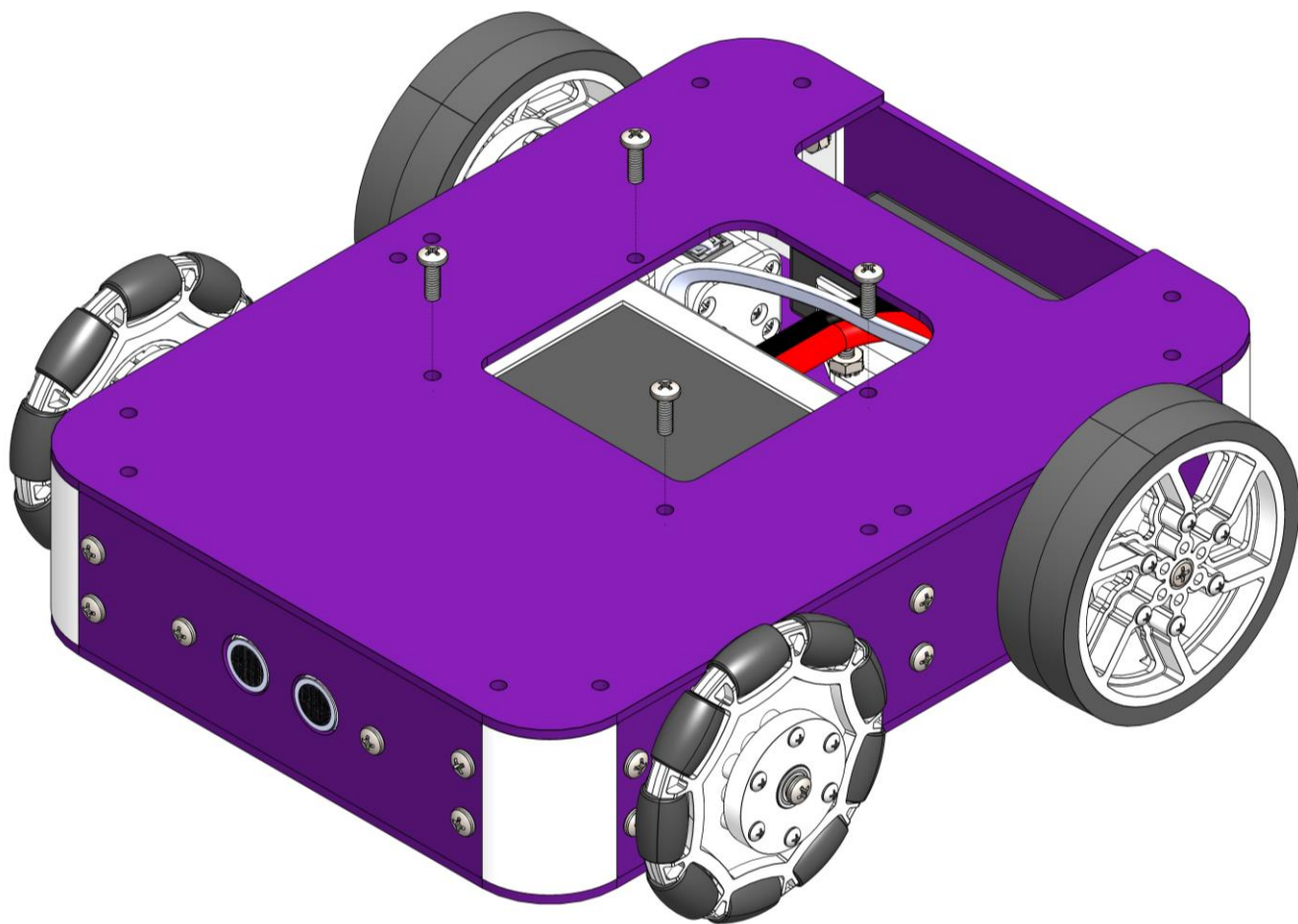
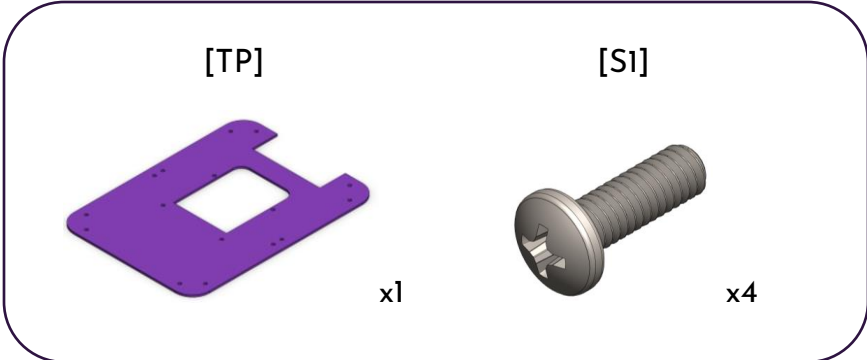
[B]



x1

20



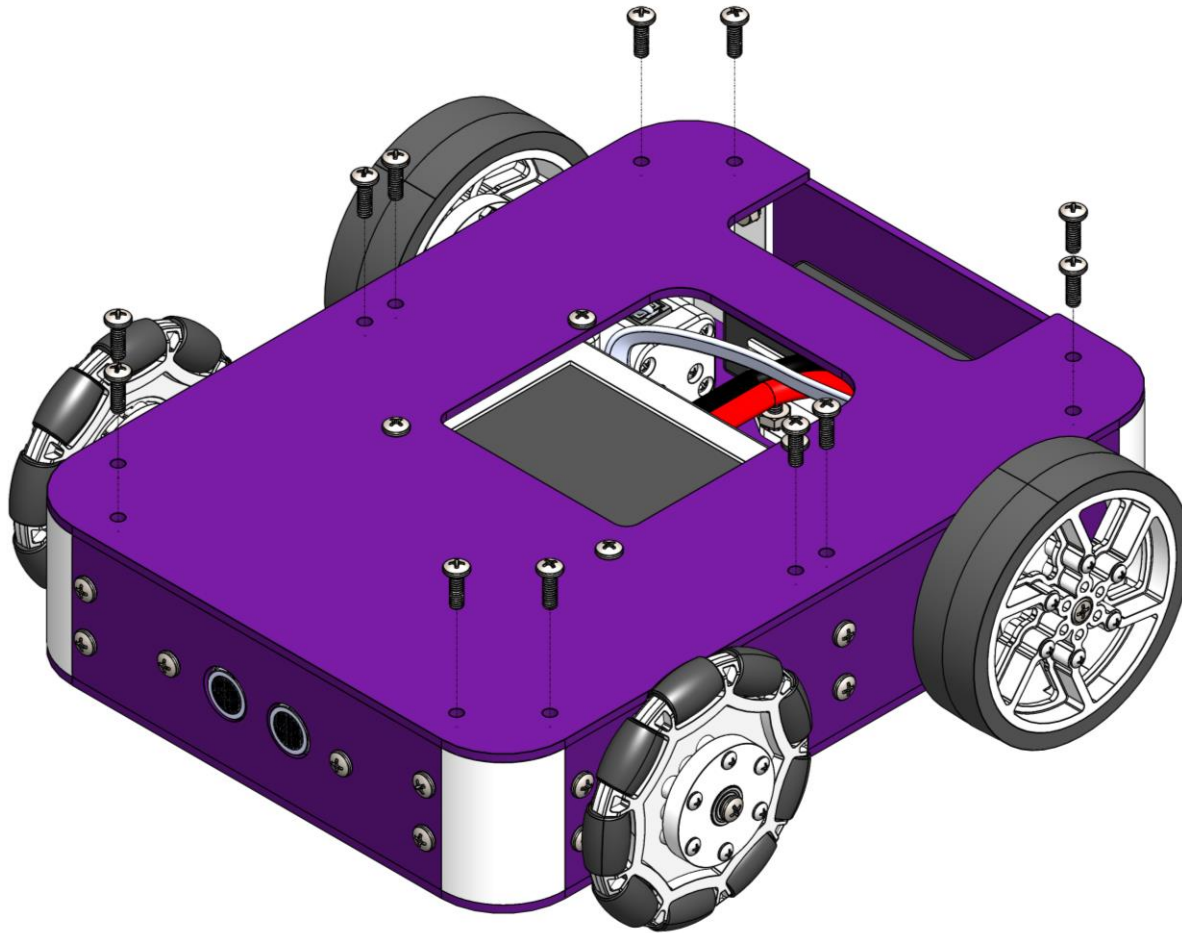


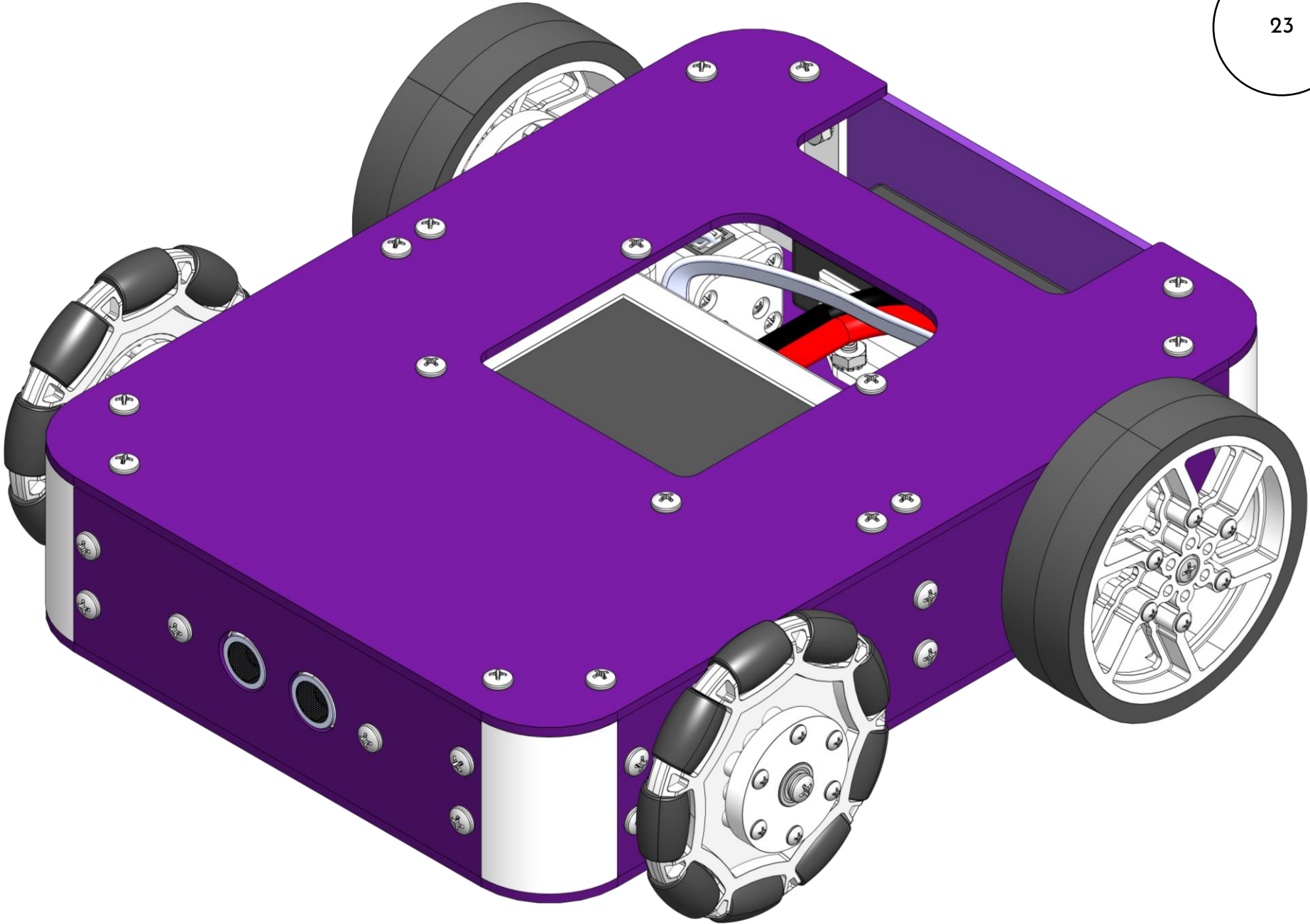
[S1]



x12

22

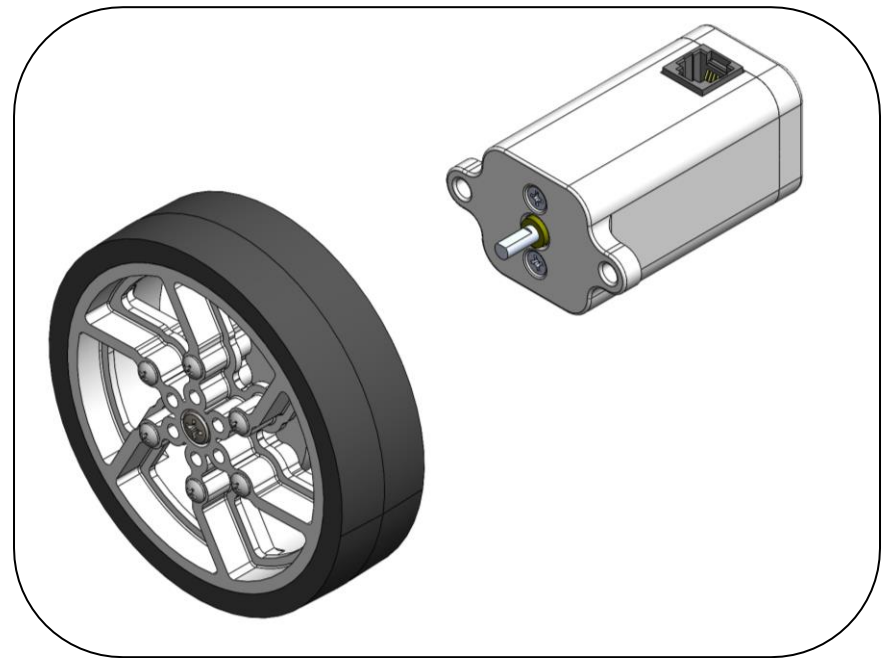
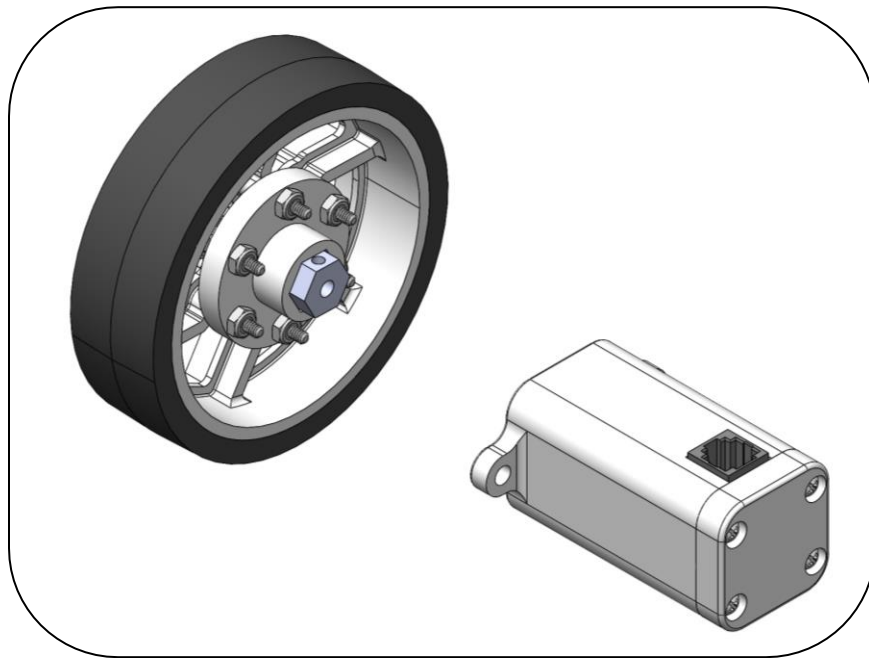




ROBOT TROUBLESHOOTING

MOTOR WHEEL FALLING OFF

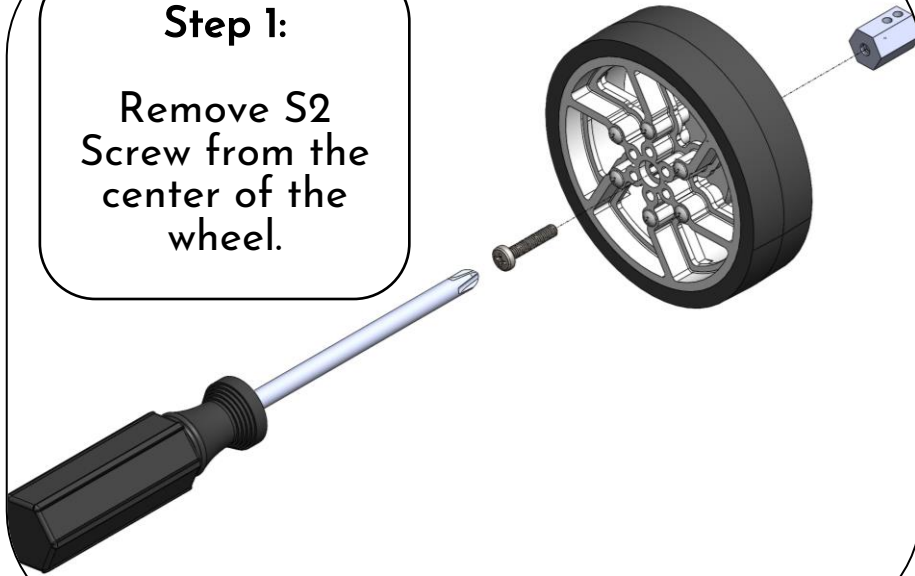
Sometimes the motor wheels loosen and fall off the robot and look like this:



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

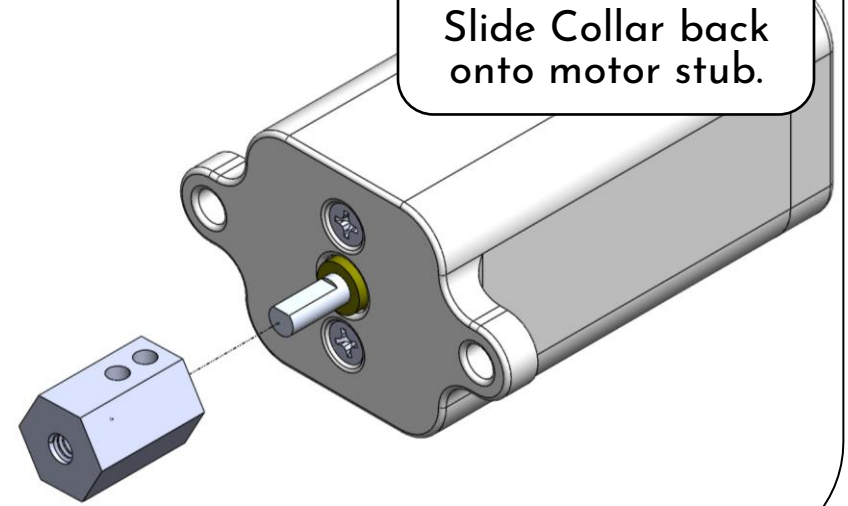
Step 1:

Remove S2 Screw from the center of the wheel.



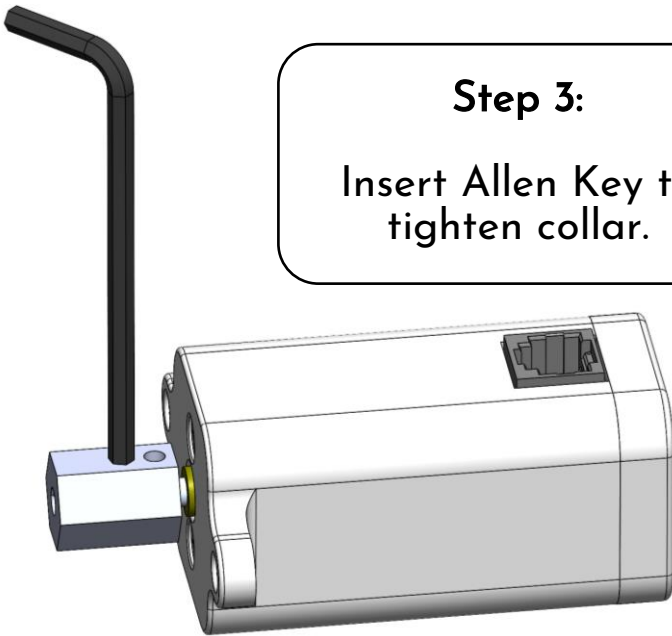
Step 2:

Slide Collar back onto motor stub.



Step 3:

Insert Allen Key to tighten collar.



Step 4:

Put S2 Screw back in center of wheel.

