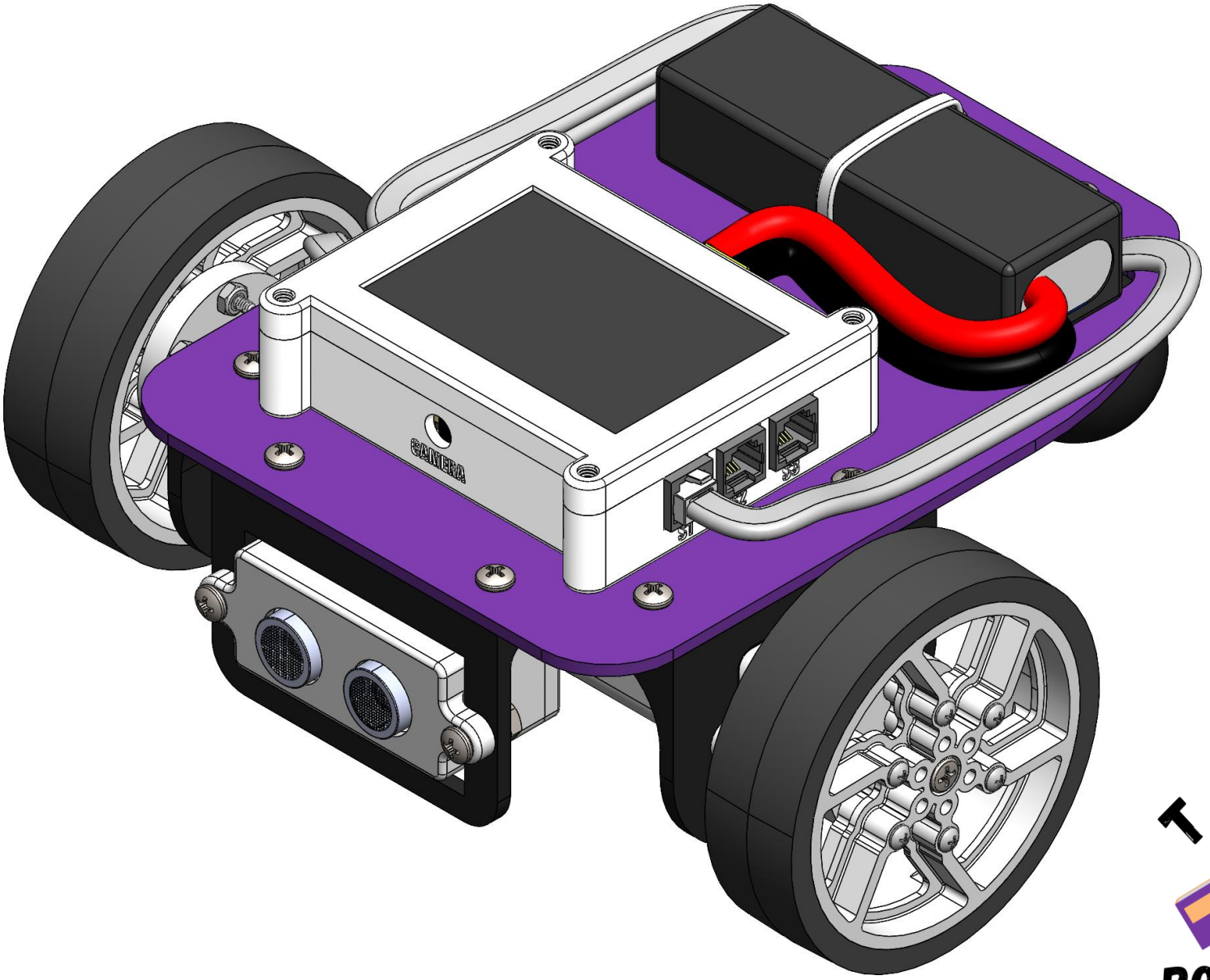
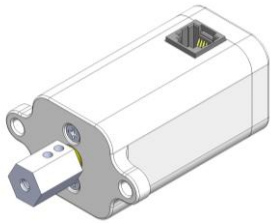
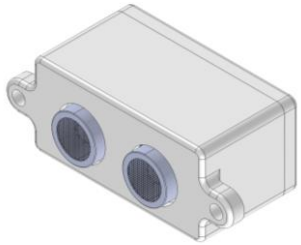
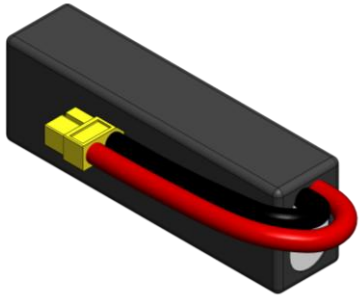
ASSEMBLY INSTRUCTIONS: PILOT

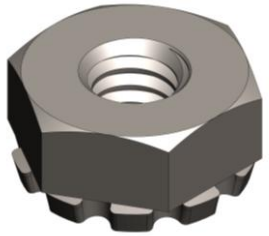


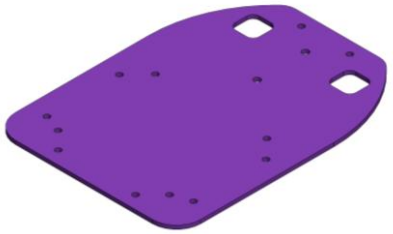
TRUE ROBOTICS®

1	CONTROLLER [C]	
2	USB C CORD [USBC]	
3	MOTOR [M]	
4	ULTRASONIC SENSOR [US]	

5	WIRE [WR]	
6	BATTERY [B]	
7	BATTERY CHARGER [BC]	
8	SCREWDRIVER [SD]	

9	OPEN WRENCH [OW]	
10	ALLEN KEY [AK]	
11	8-32 0.5" PHILIPS SCREW [S1]	
12	M4 SCREW 20MM [S2]	

13	8-32 STAR NUT [N1]	
14	BACK PEG [PG]	
15	MOTOR MOUNT [MM]	
16	ULTRASONIC MOUNT [UM]	

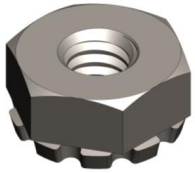
17	BASE PLATE [BP]	
18	ZIP TIE [ZT]	
19	TRACTION WHEEL [TT]	

[BP] x1

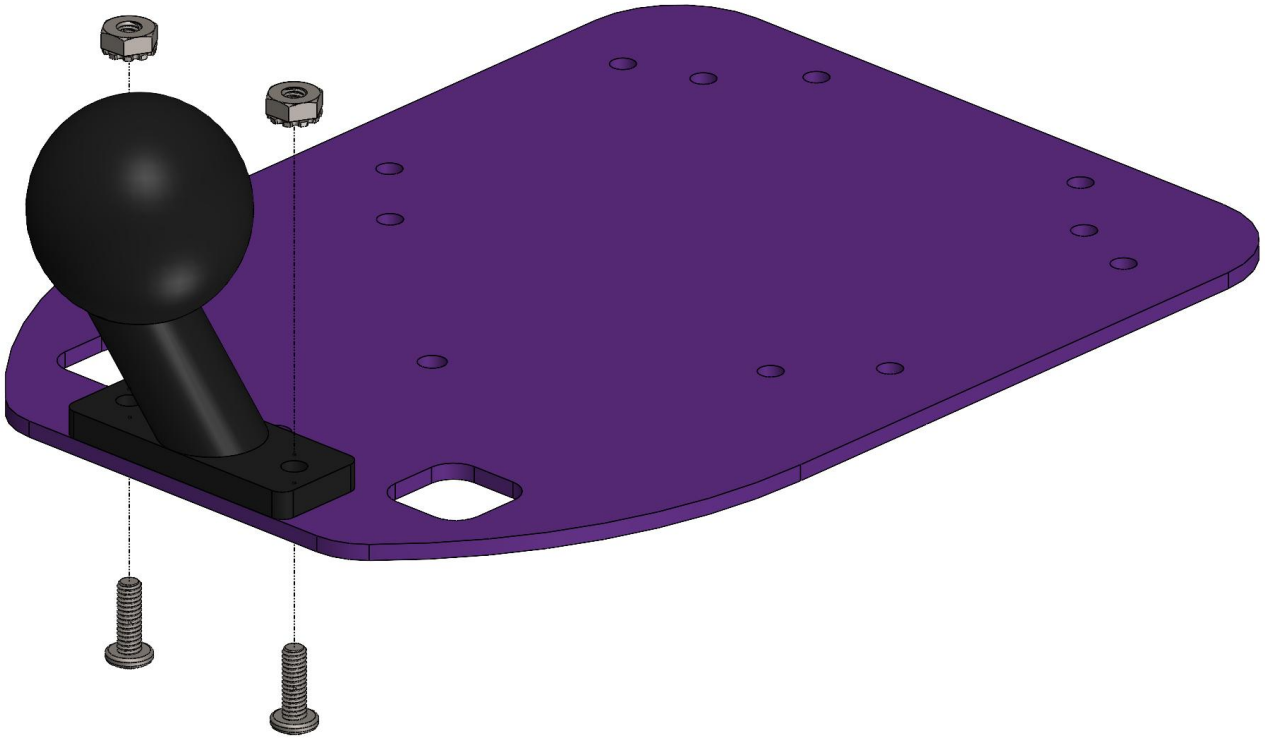
[PG] x1

[S1] x2

[N1] x2



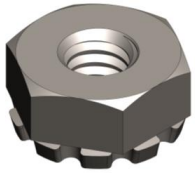
1

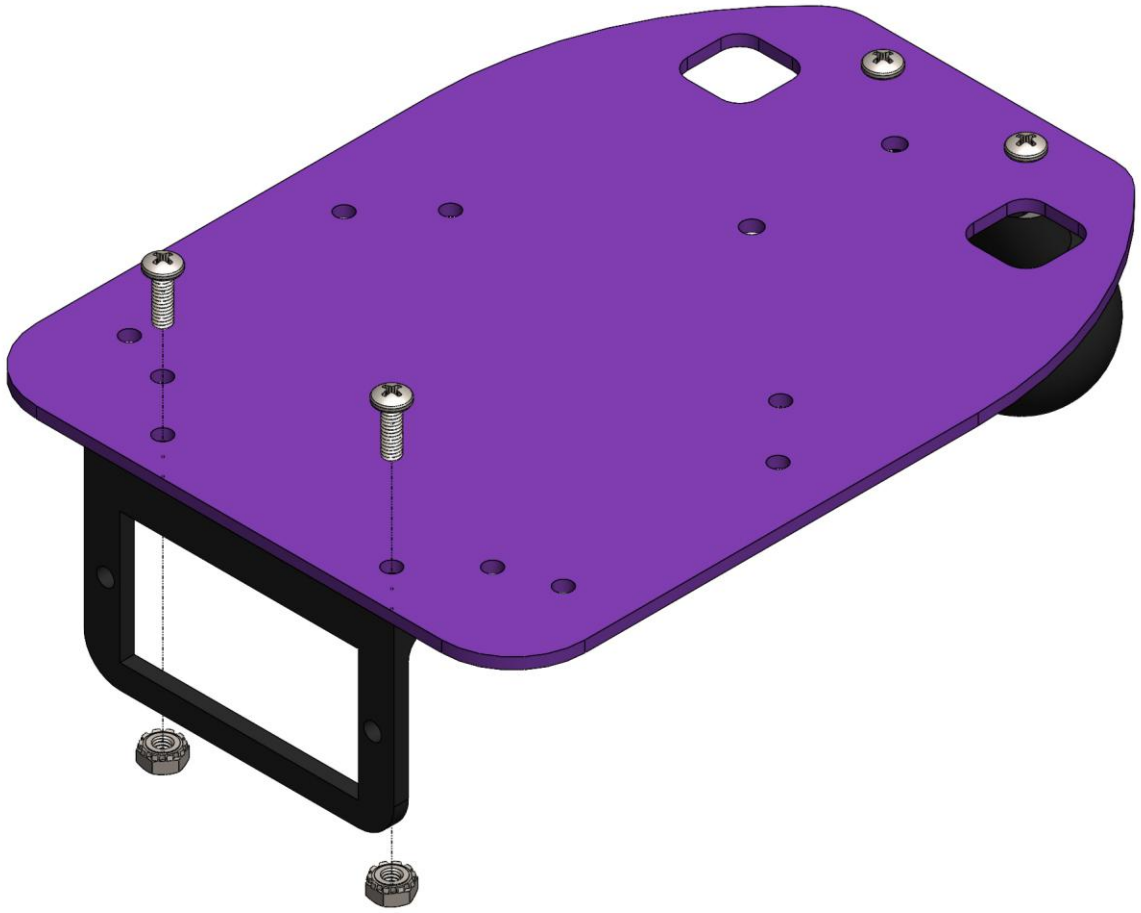


[UM] x1

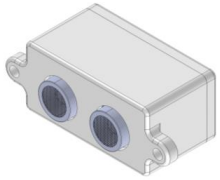
[S1] x2

[N1] x2



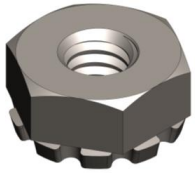


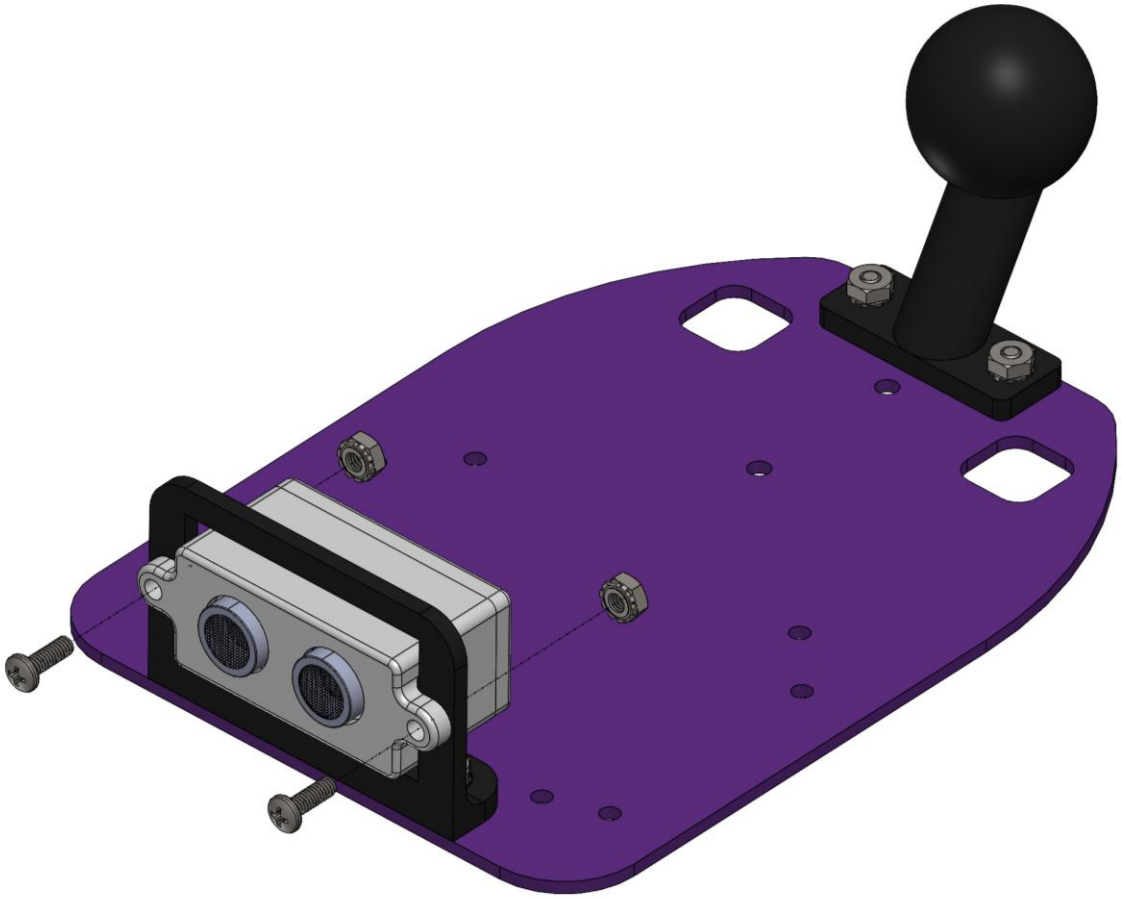
[US] x1



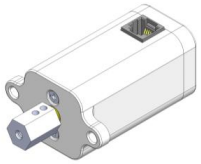
[S1] x2

[N1] x2





[M]

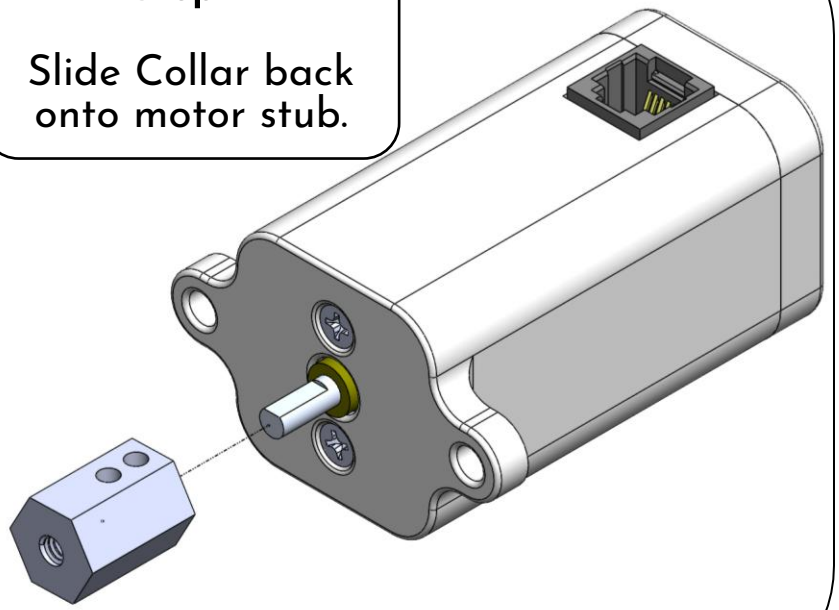


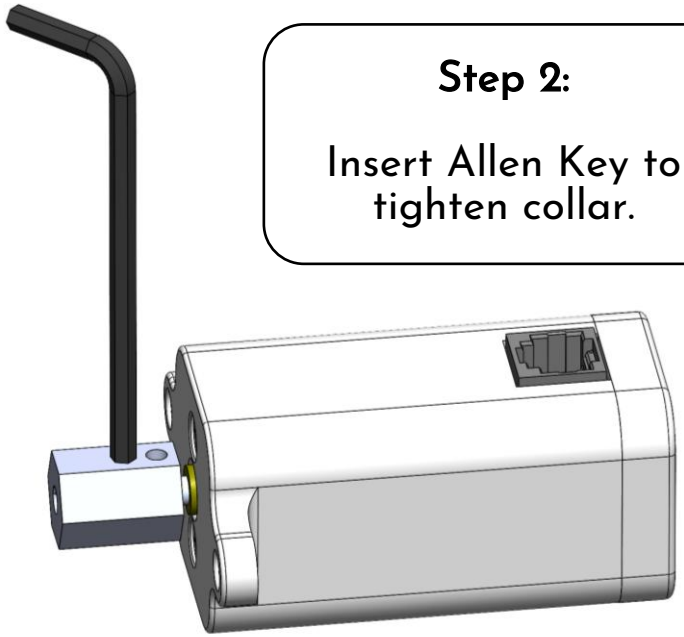
x2

4

Step 1:

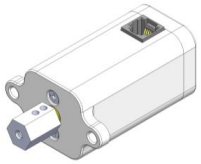
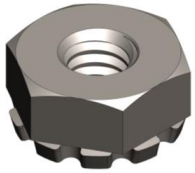
Slide Collar back onto motor stub.

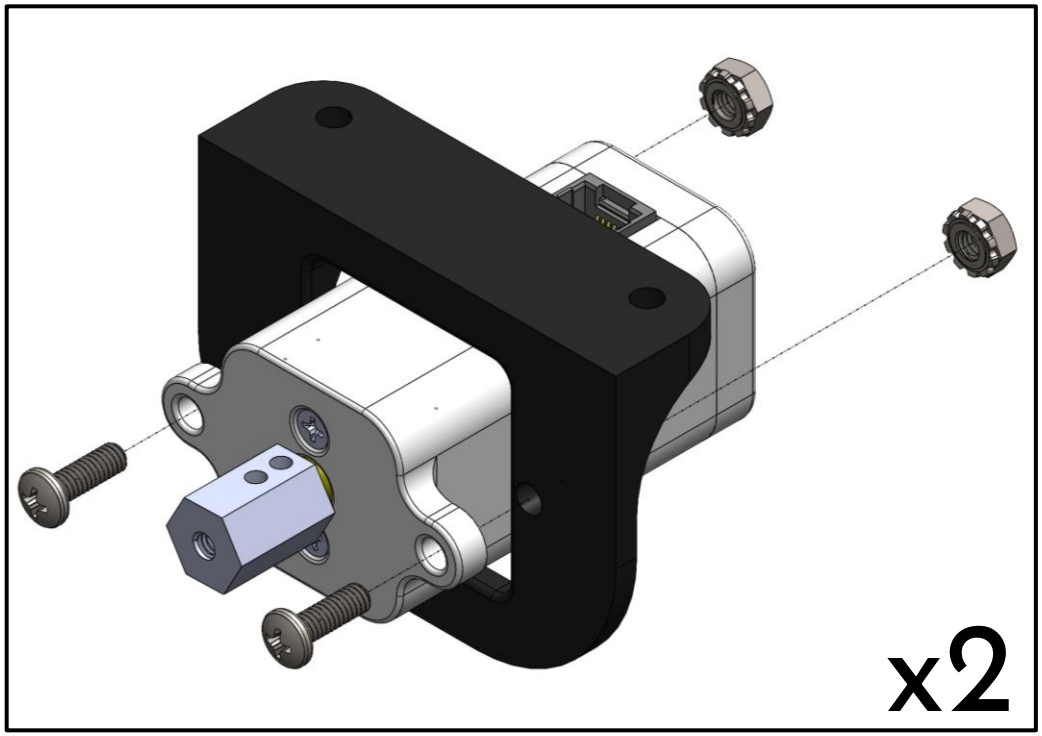


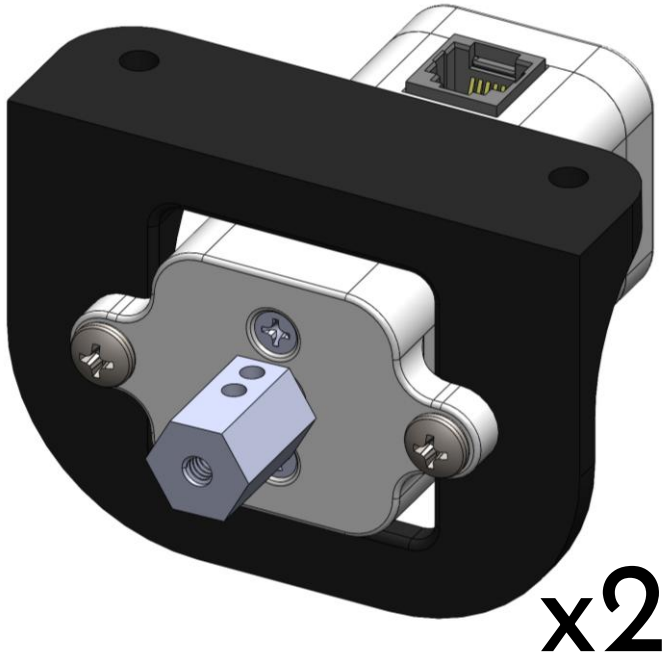


Step 2:

Insert Allen Key to tighten collar.

[MM]	[M]	[S1]	[N1]
 x1	 x1	 x2	 x2

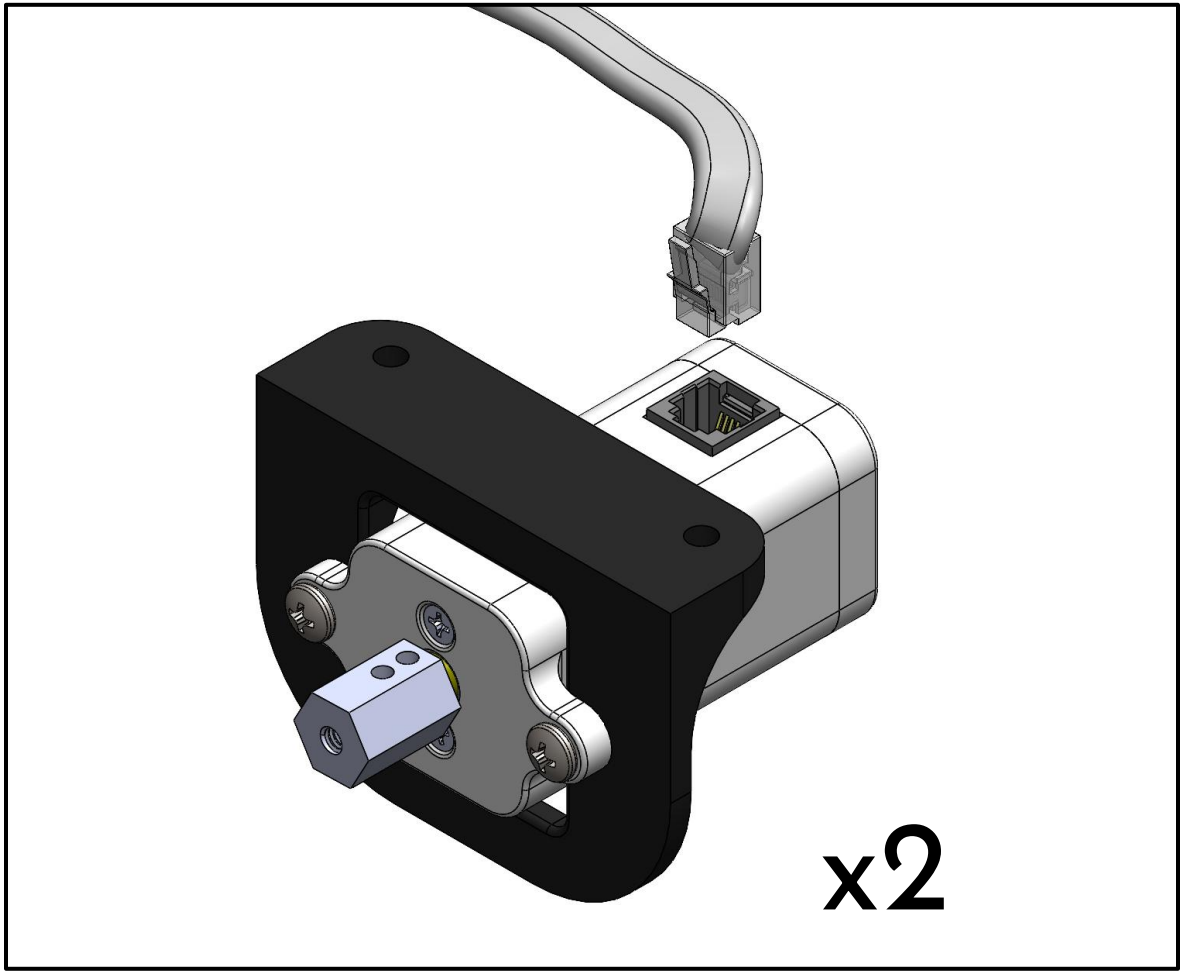




[WR]

x2

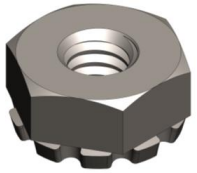
6



[S1]

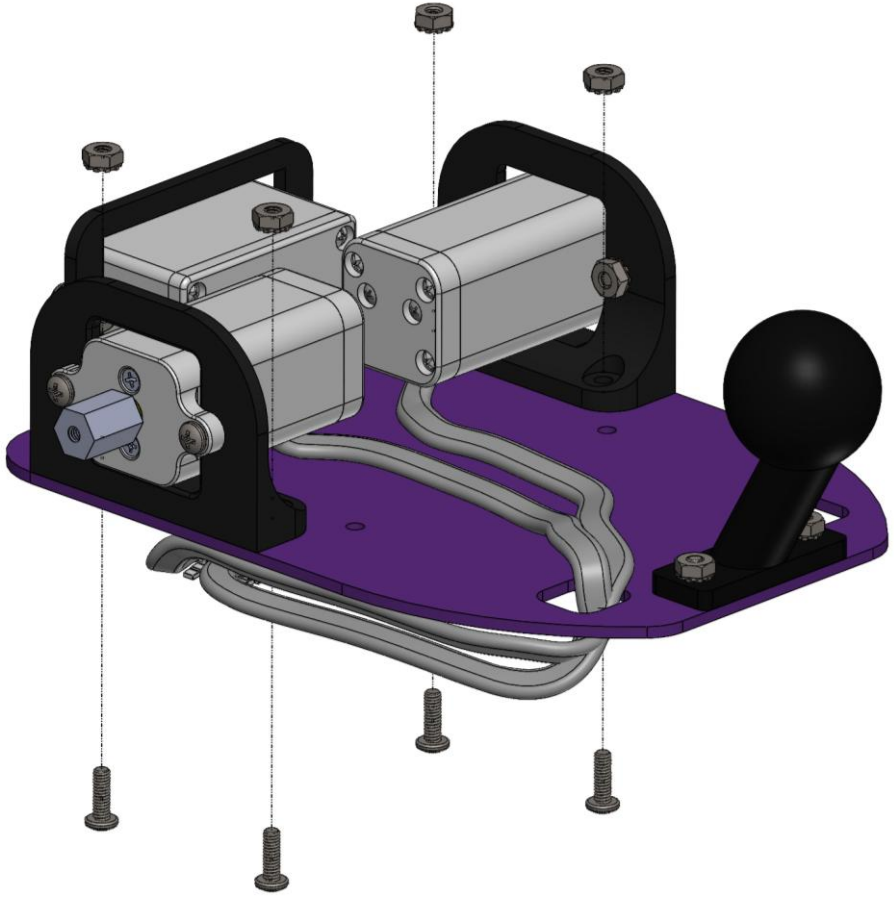
x4

[N1]



x4

7



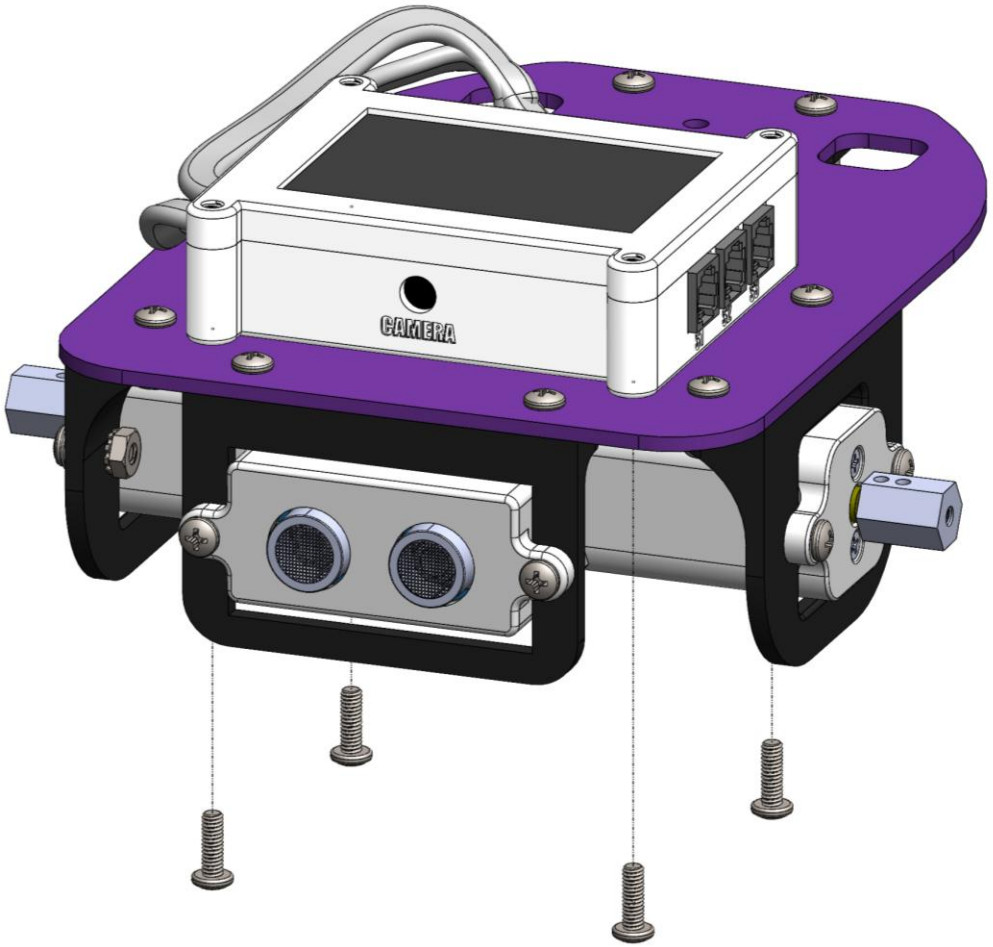
[C]

x1

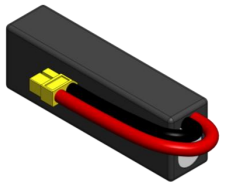
[S1]

x4

8



[B]

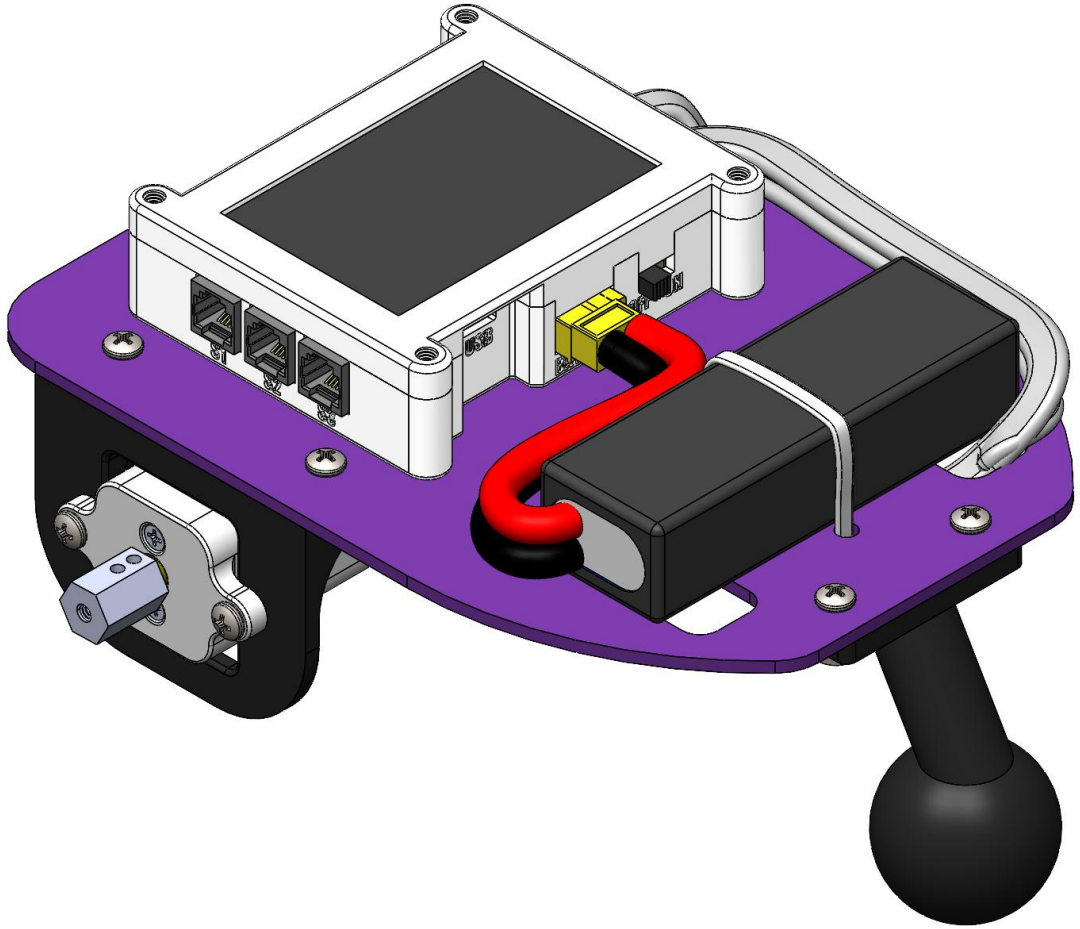


x1

[ZT]

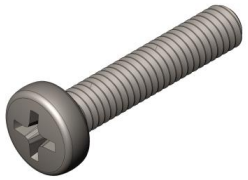
x1

9

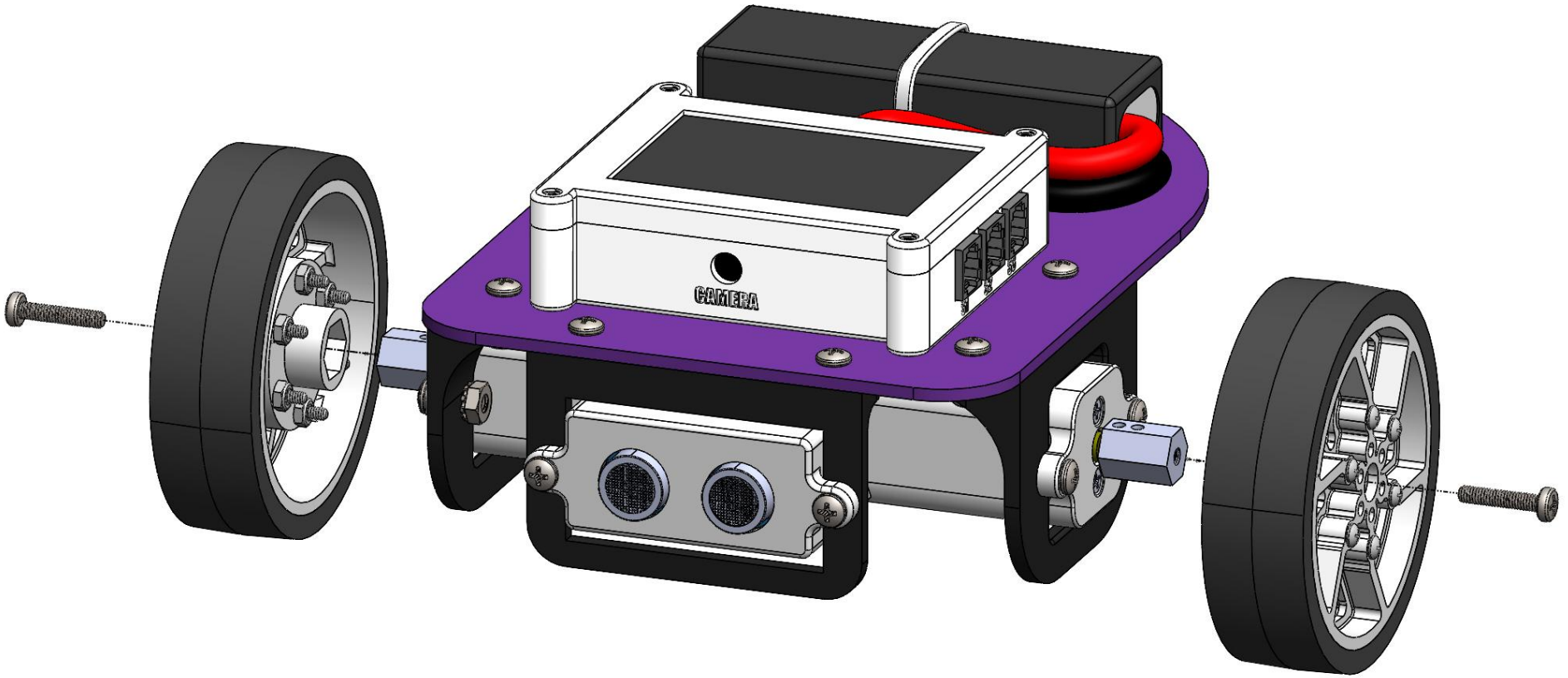


[TT] x2

[S2] x2



10



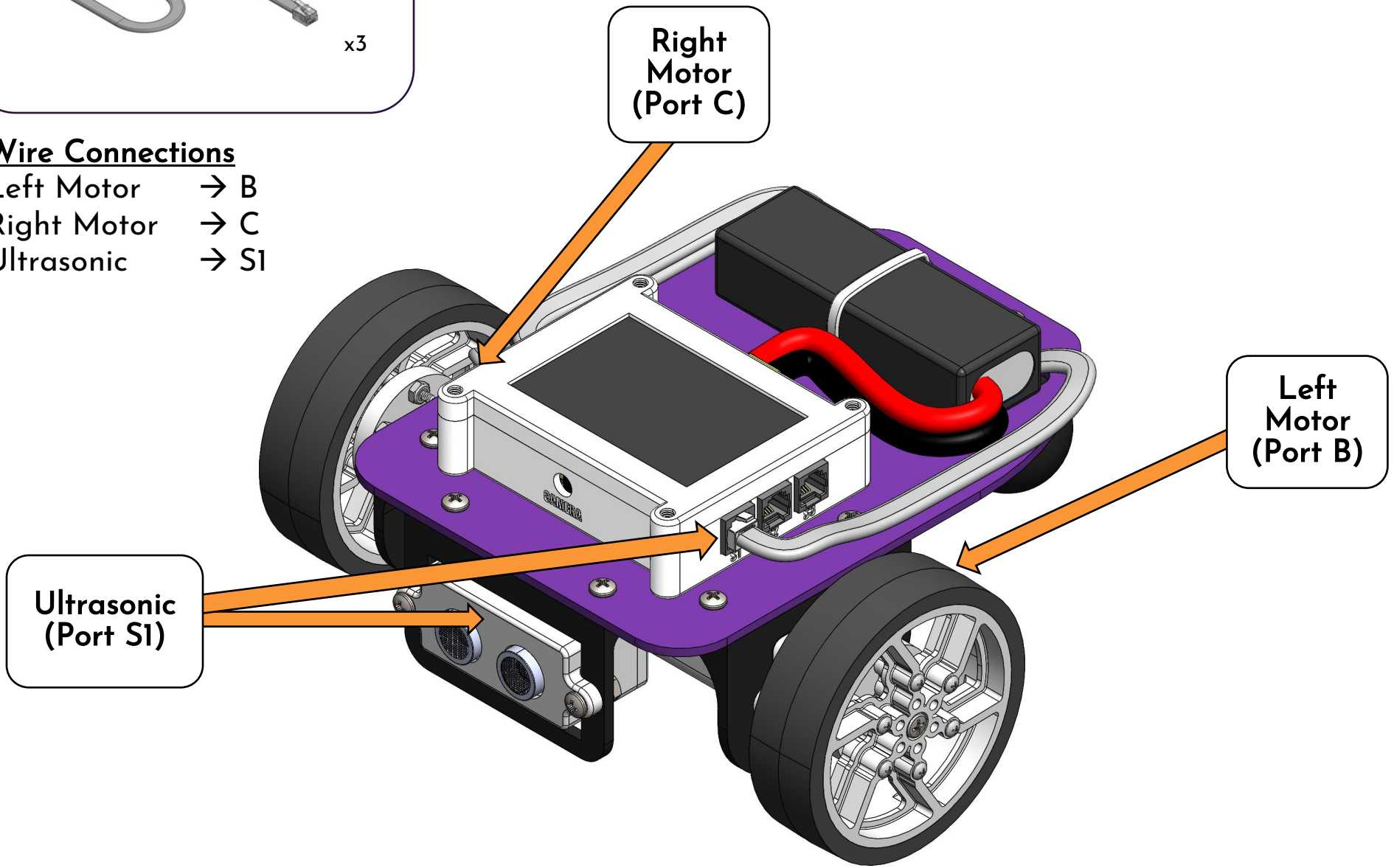
[WR]

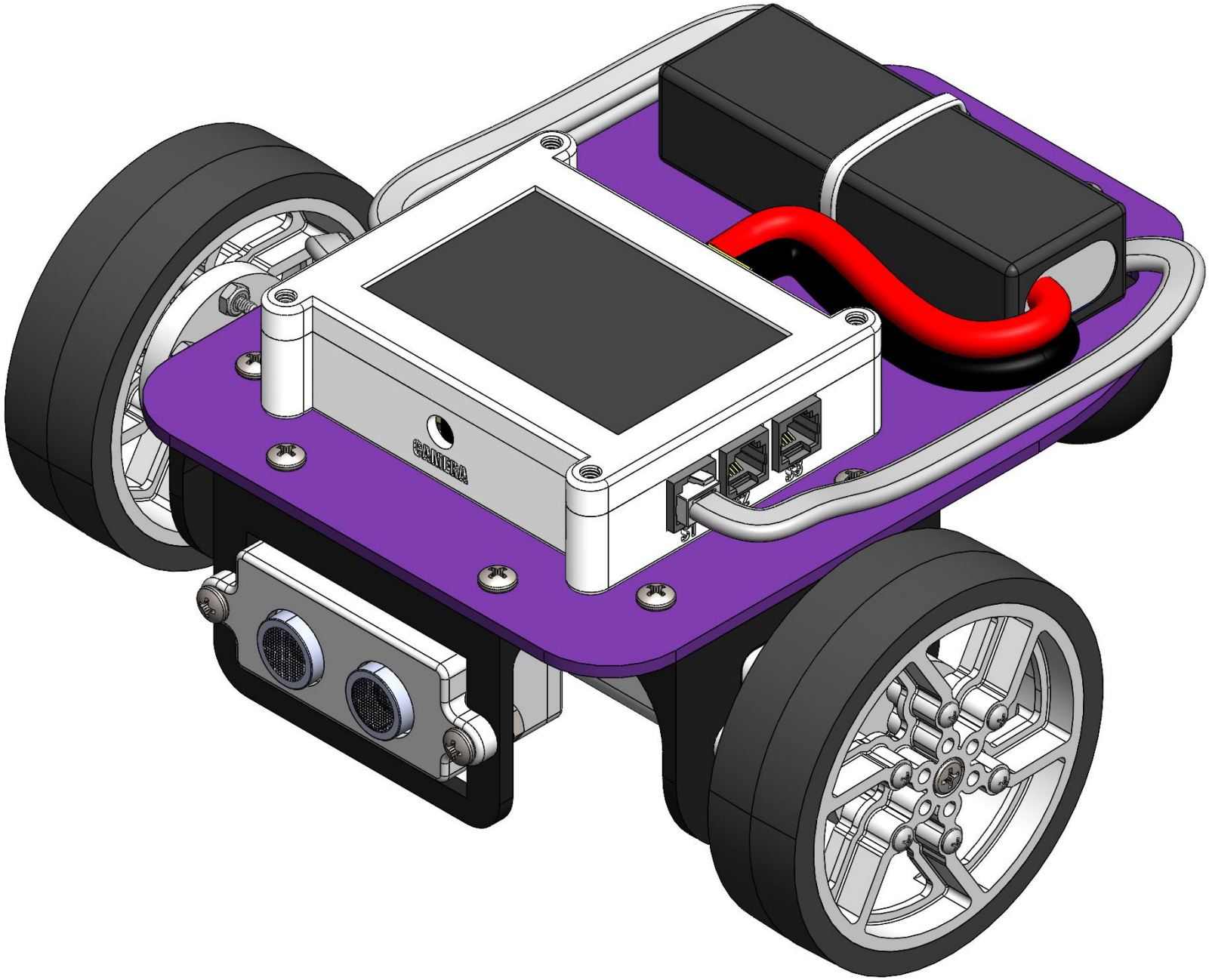
x3

10

Wire Connections

Left Motor → B
Right Motor → C
Ultrasonic → S1

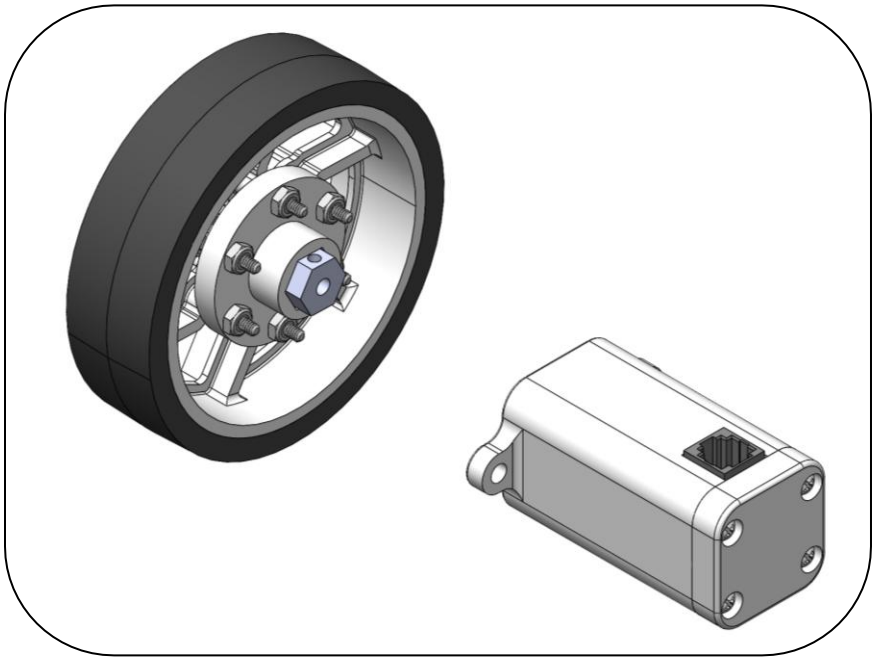


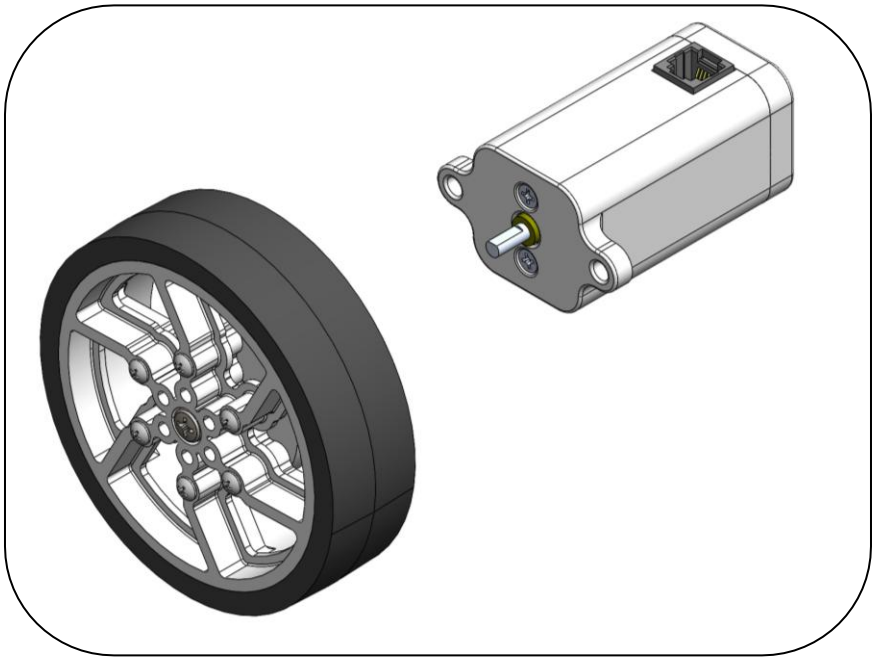


ROBOT TROUBLESHOOTING

MOTOR WHEEL FALLING OFF

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





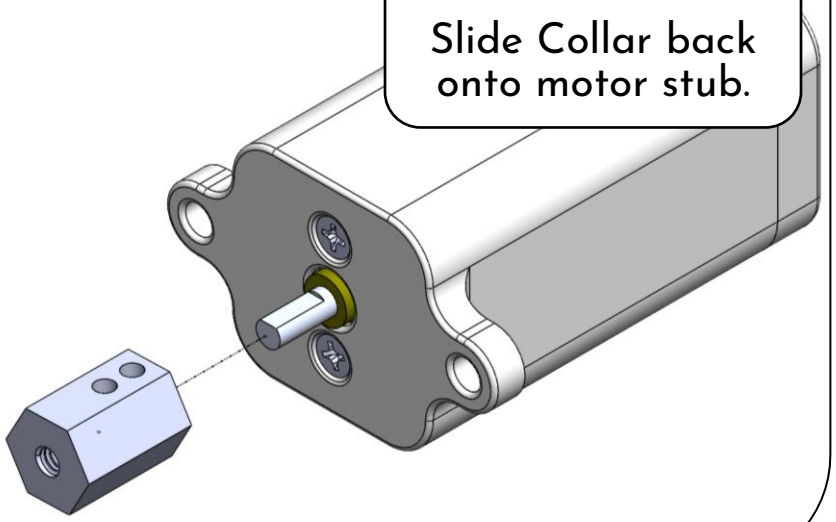
Follow the steps on the next page to fix this issue.

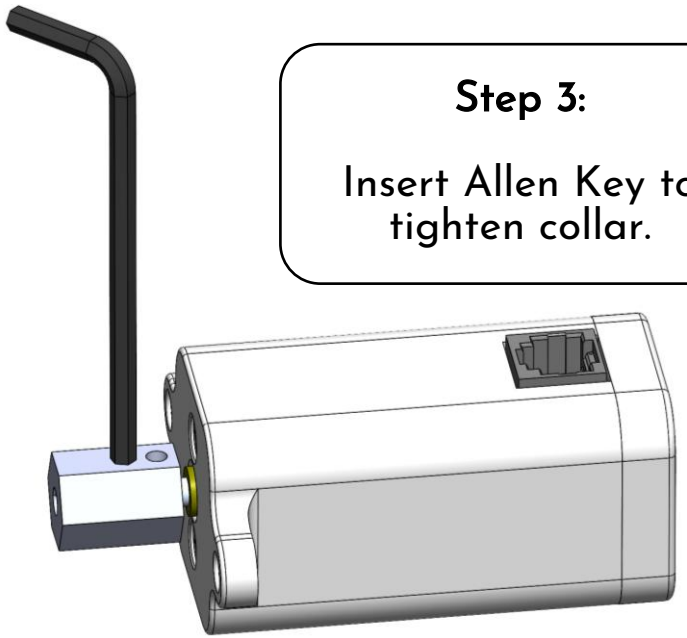
Step 1:

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.