

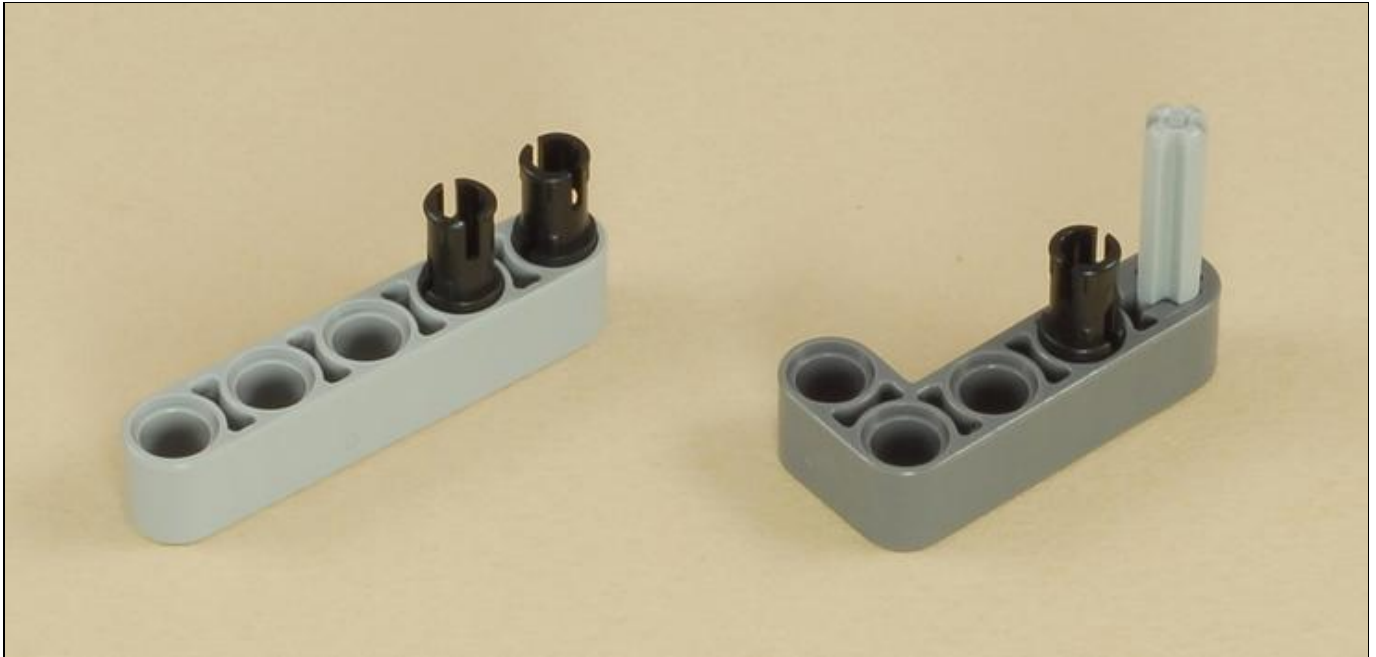
# Multi-Bot Ball Trap Sensor

Designed for **NXT 2.0** (8547)

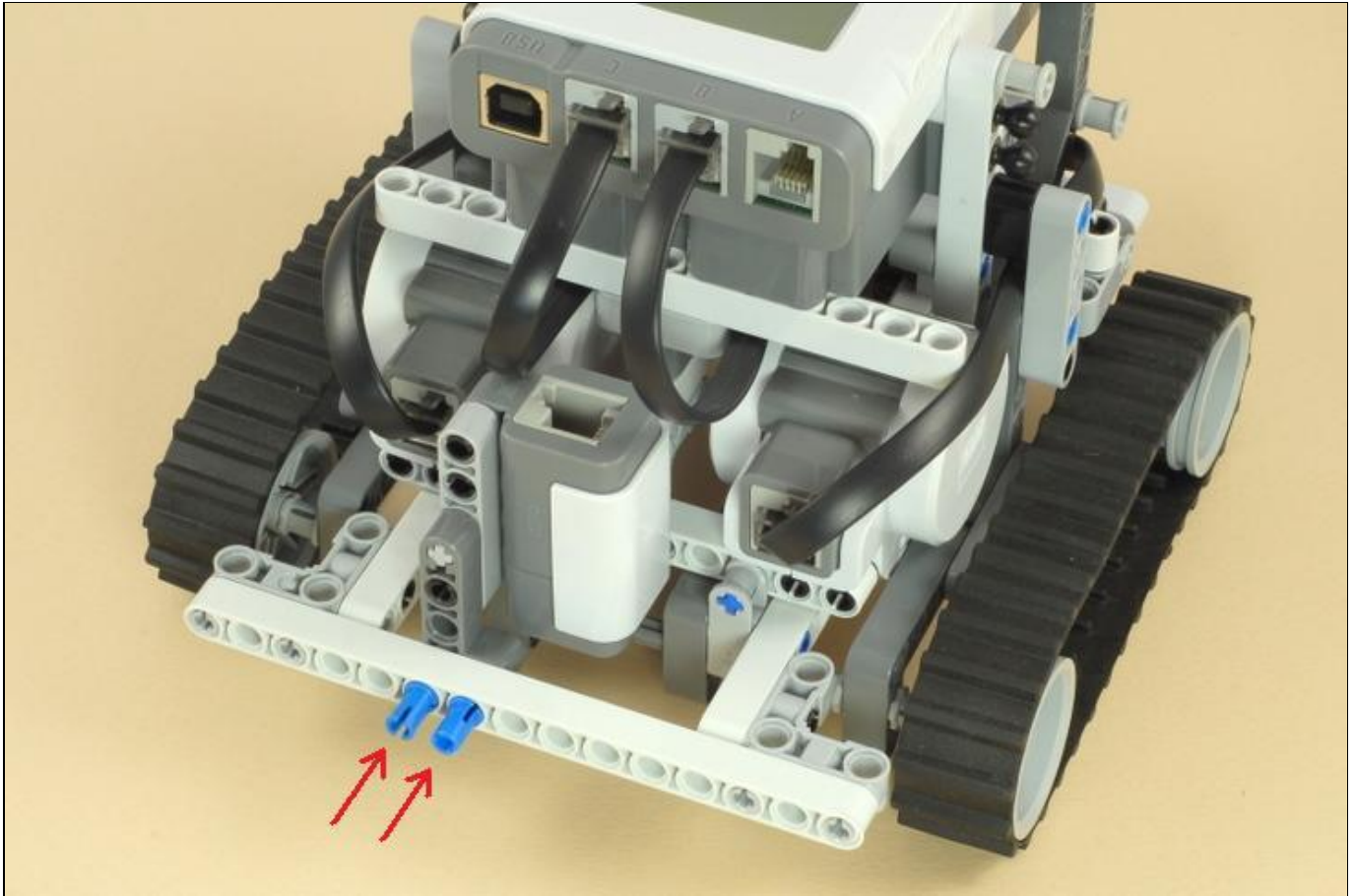
## Building Instructions

# 1

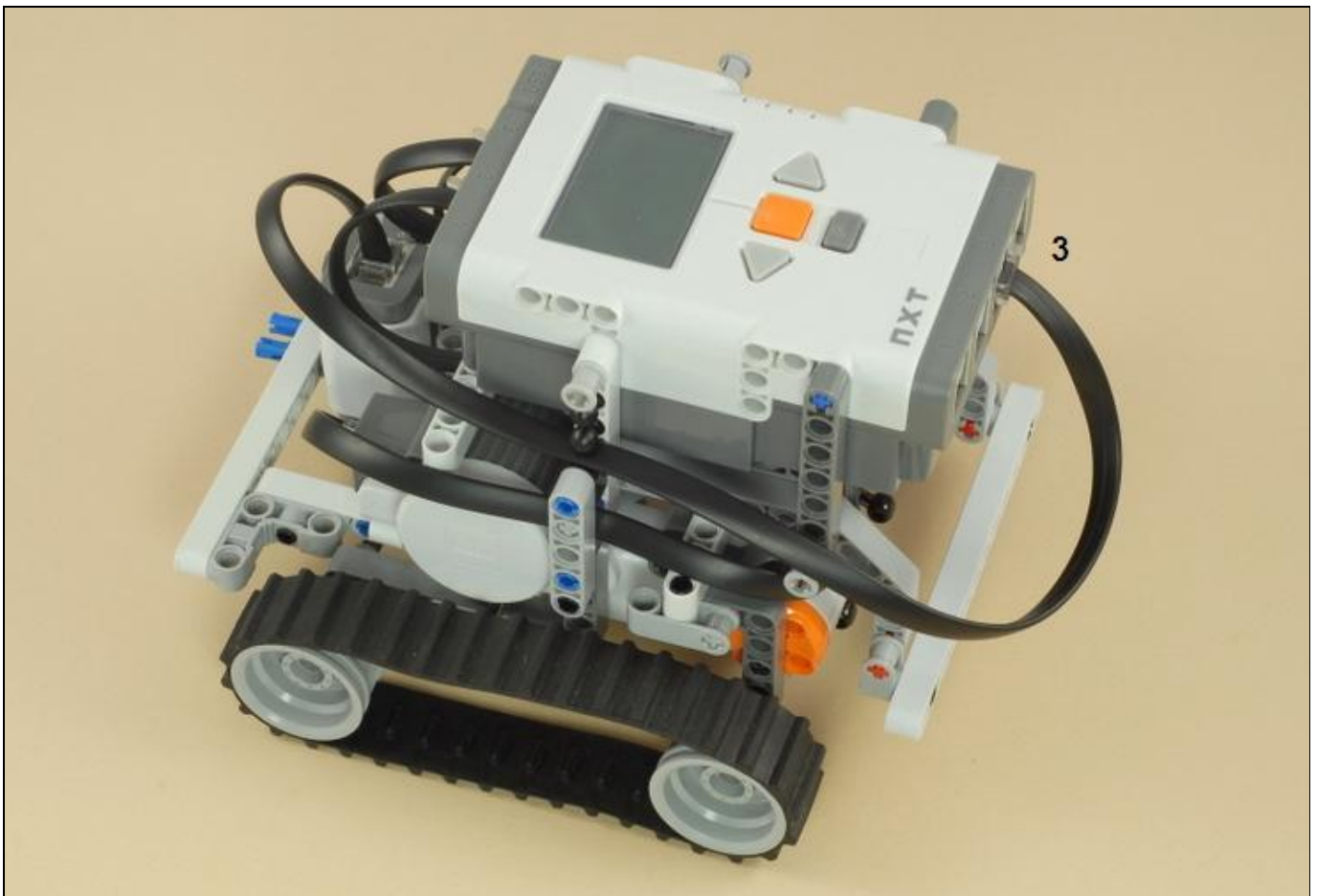




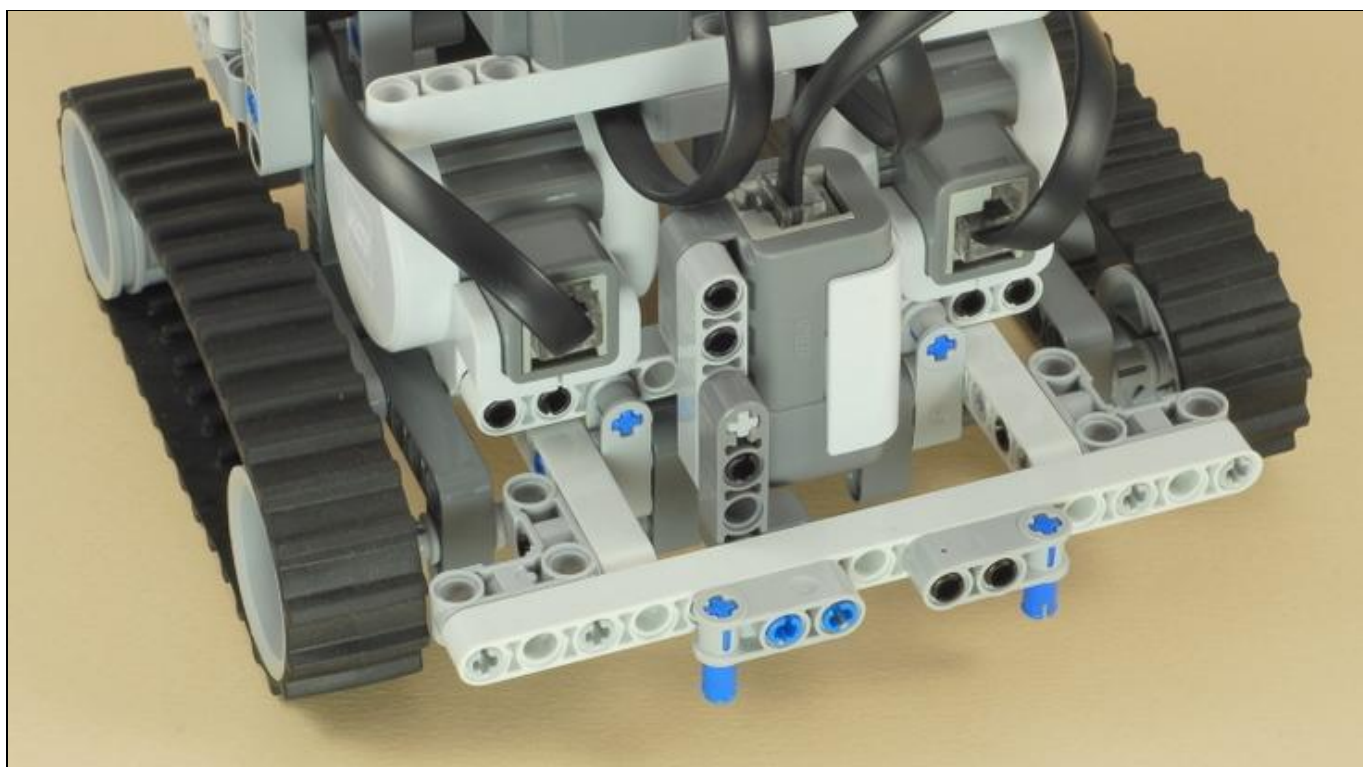
The Multi-Bot Ball Trap Sensor mounts the color sensor higher than the Multi-Bot Line Sensor attachment, to allow room for the small NXT balls or LEGO bricks to get under it.



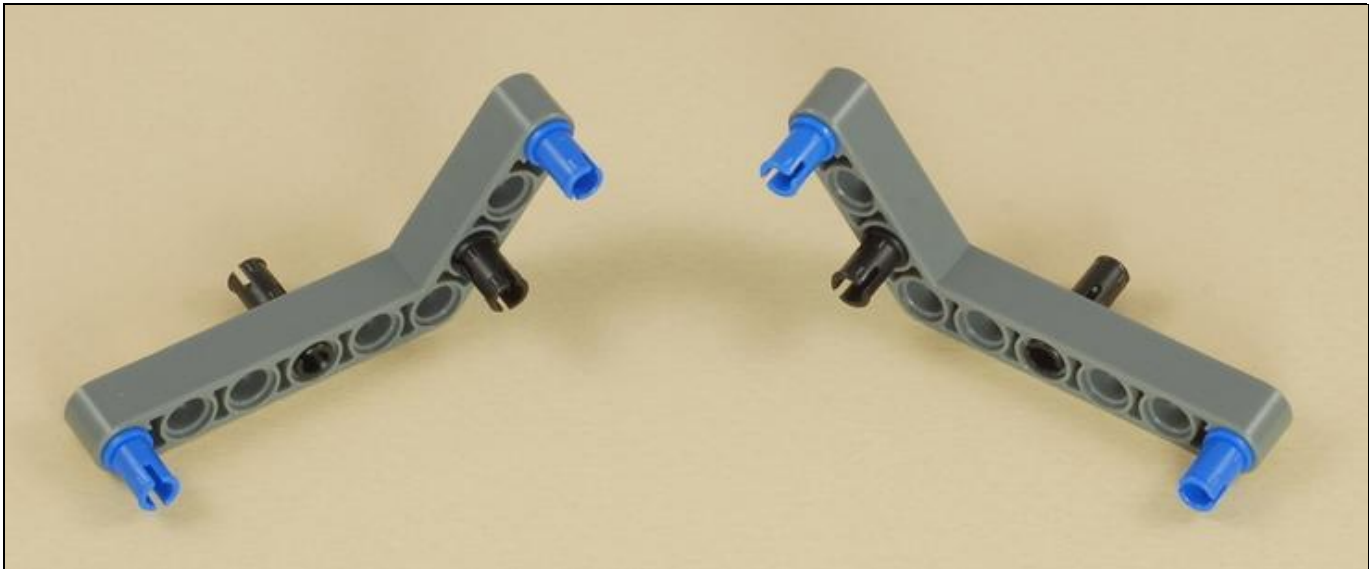
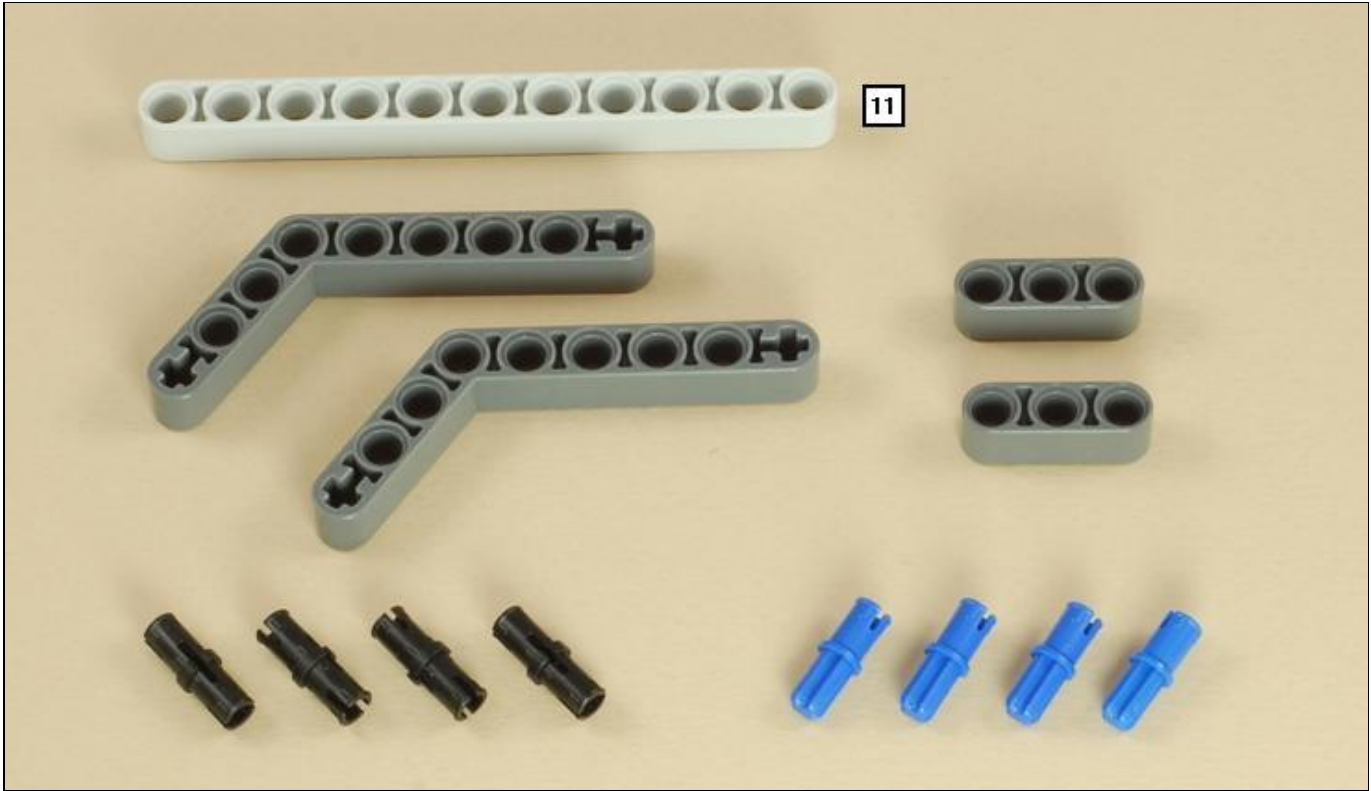
Connect the wire from the color sensor to port **3** on the NXT.

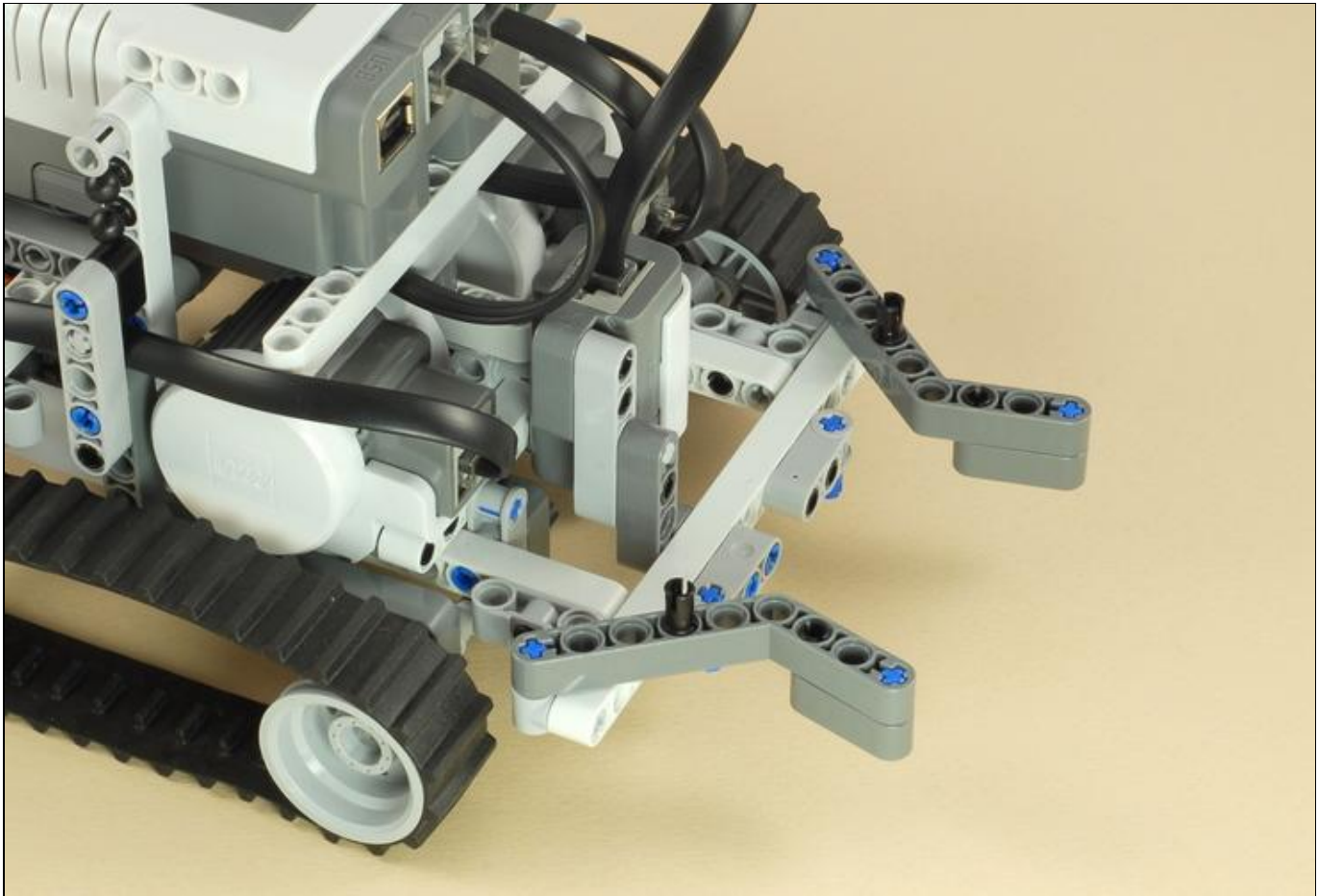
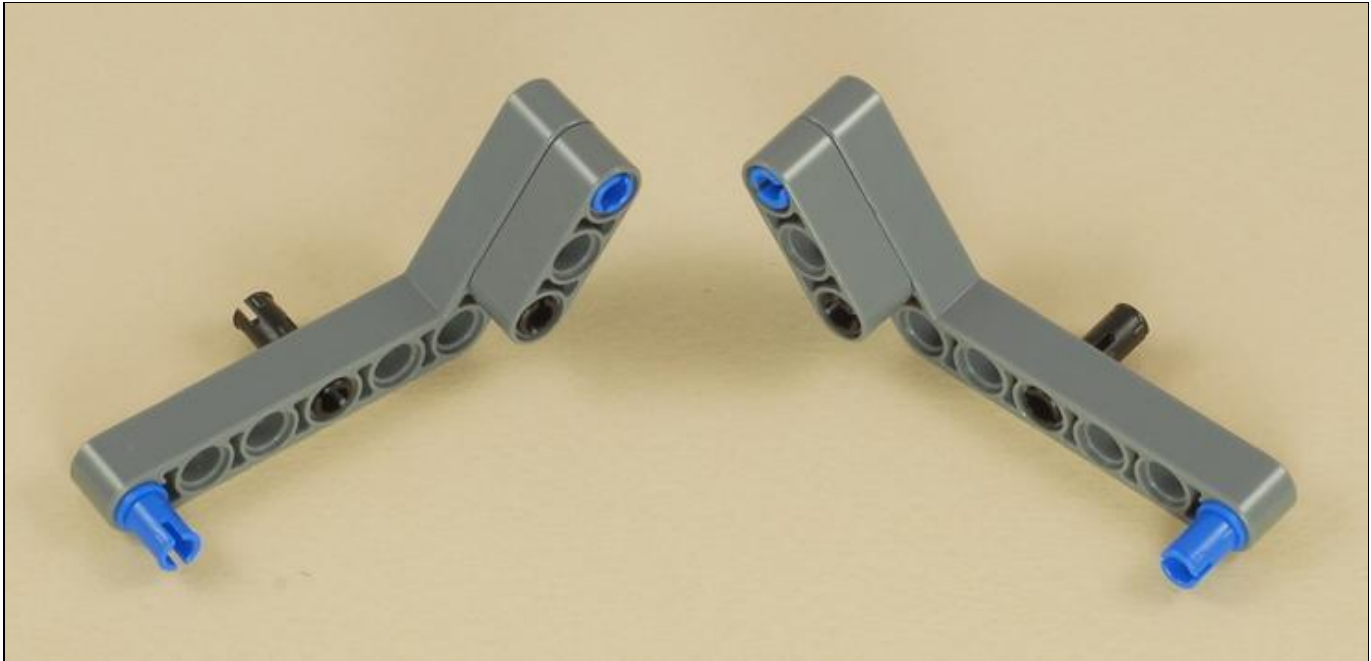


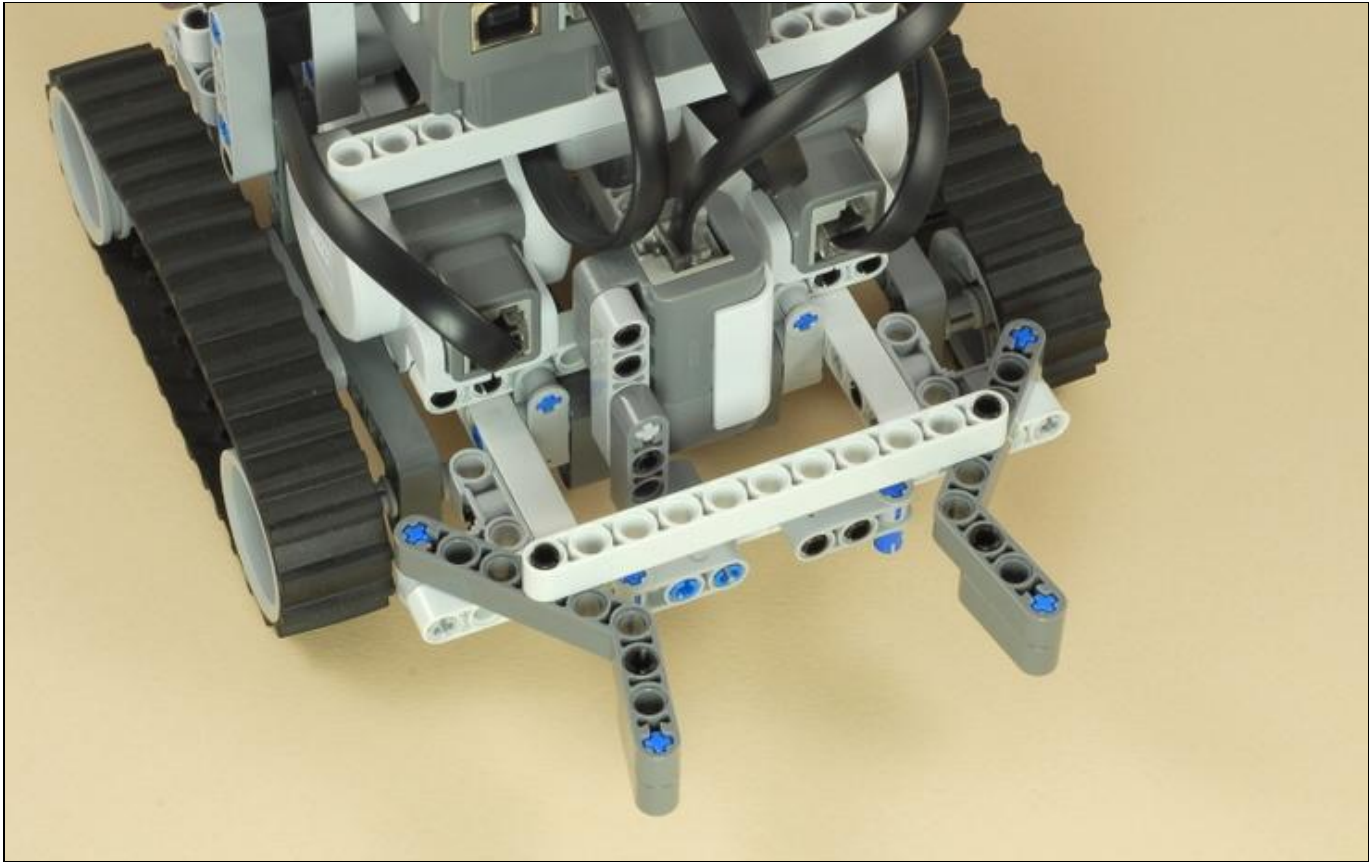
# 2



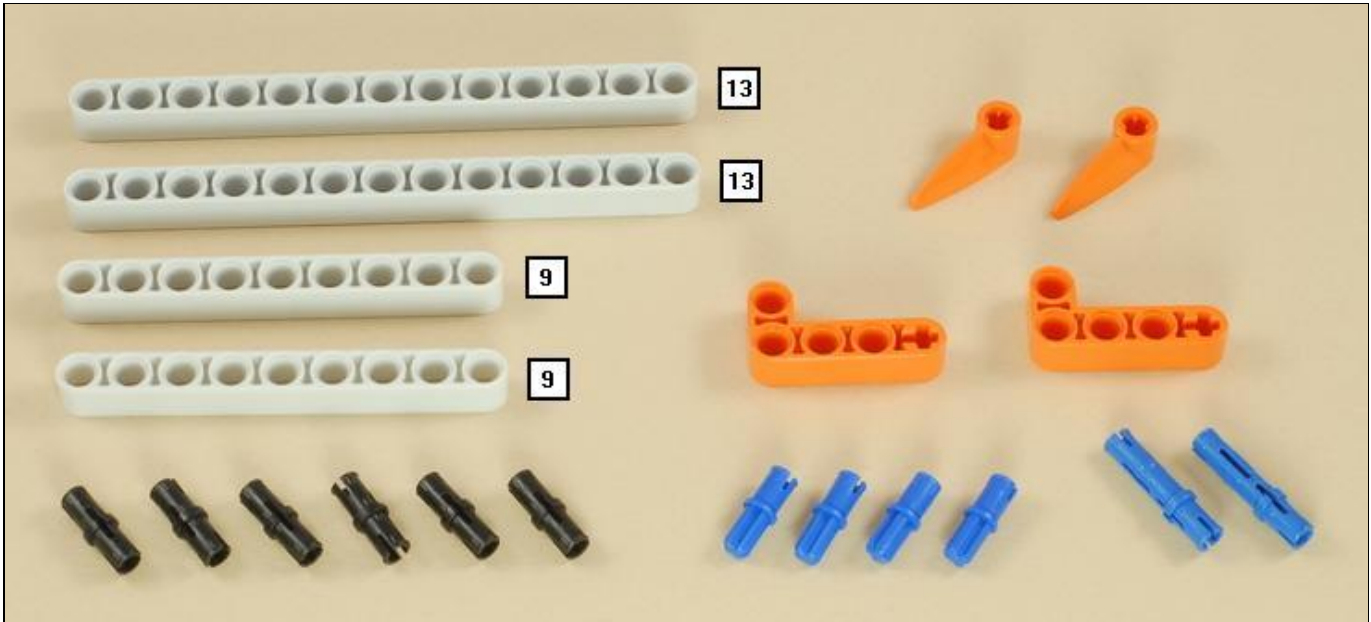
# 3

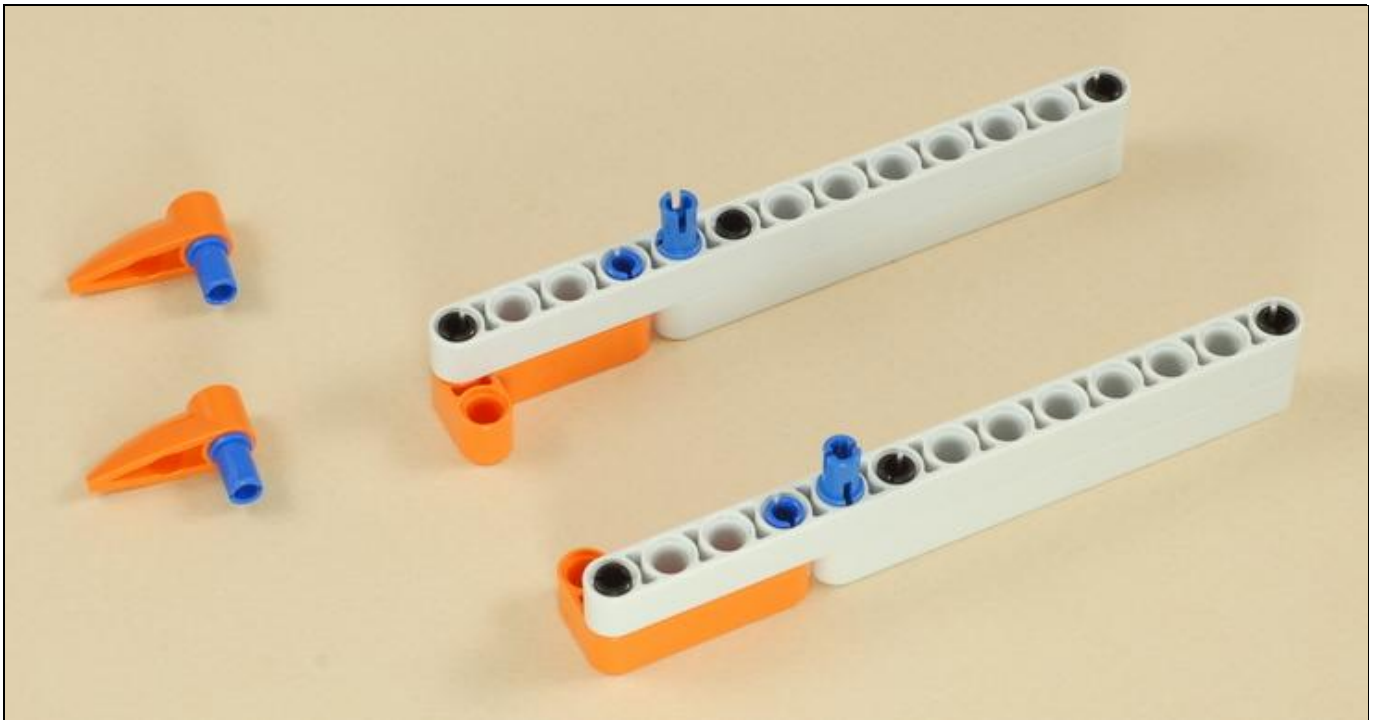
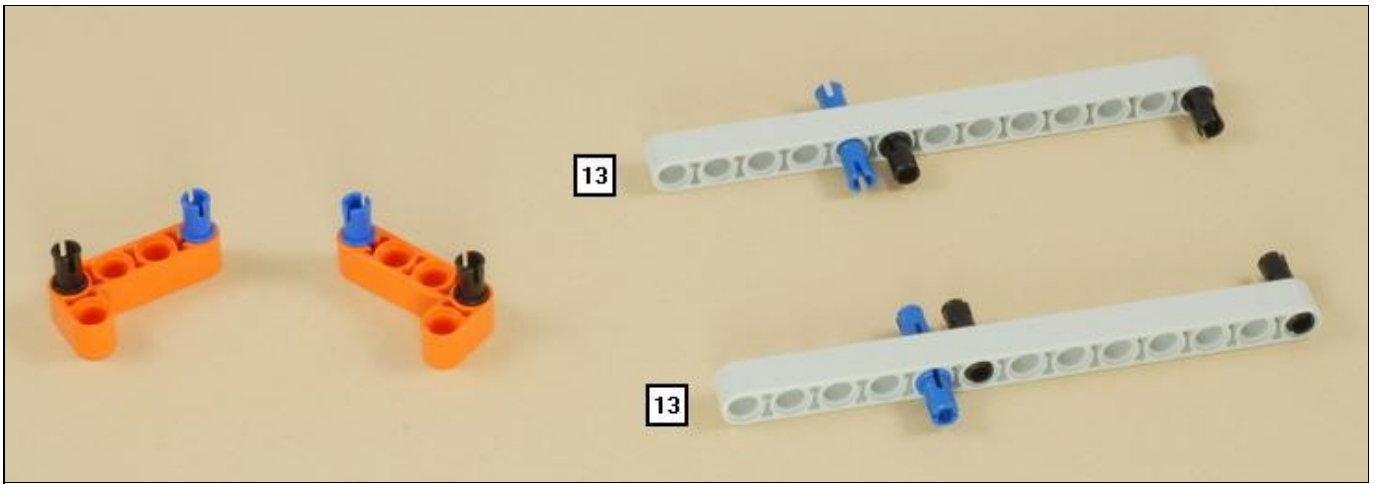




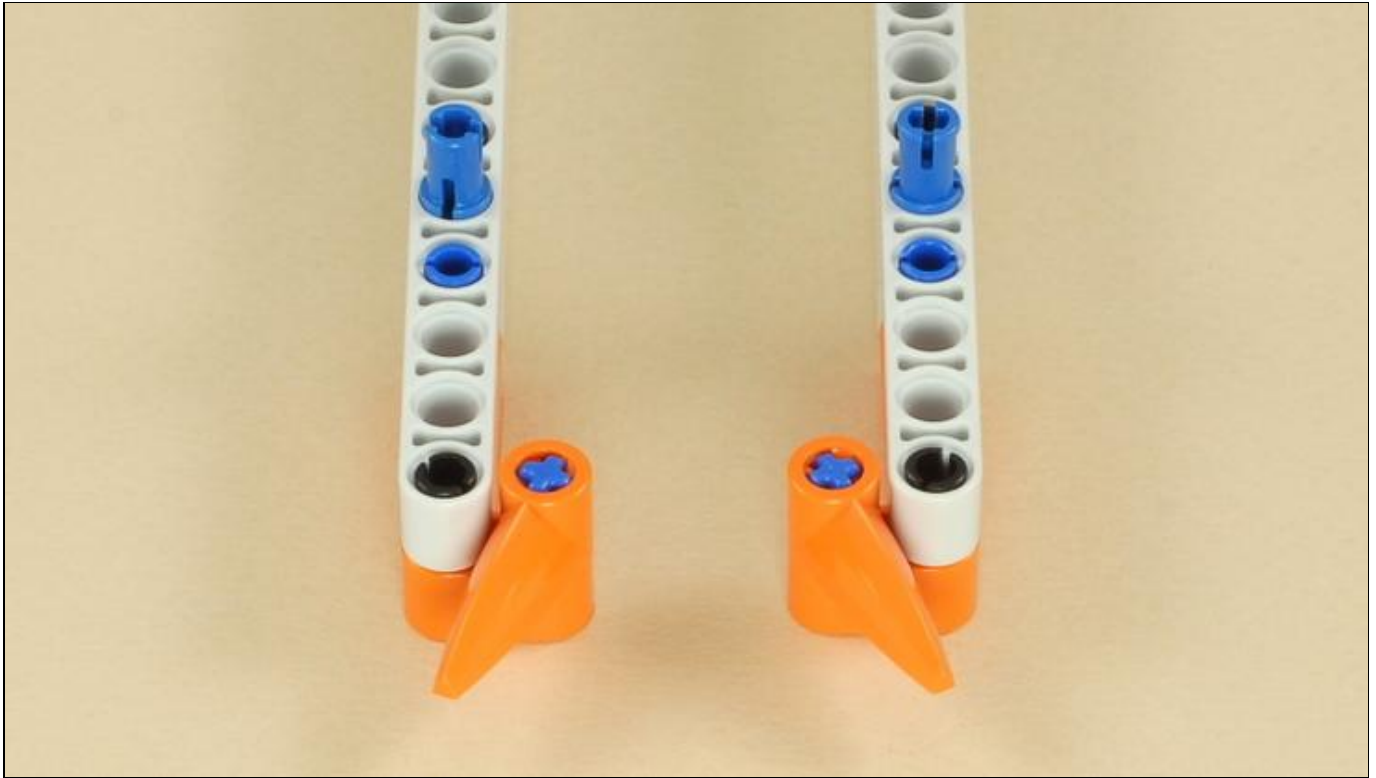


# 4

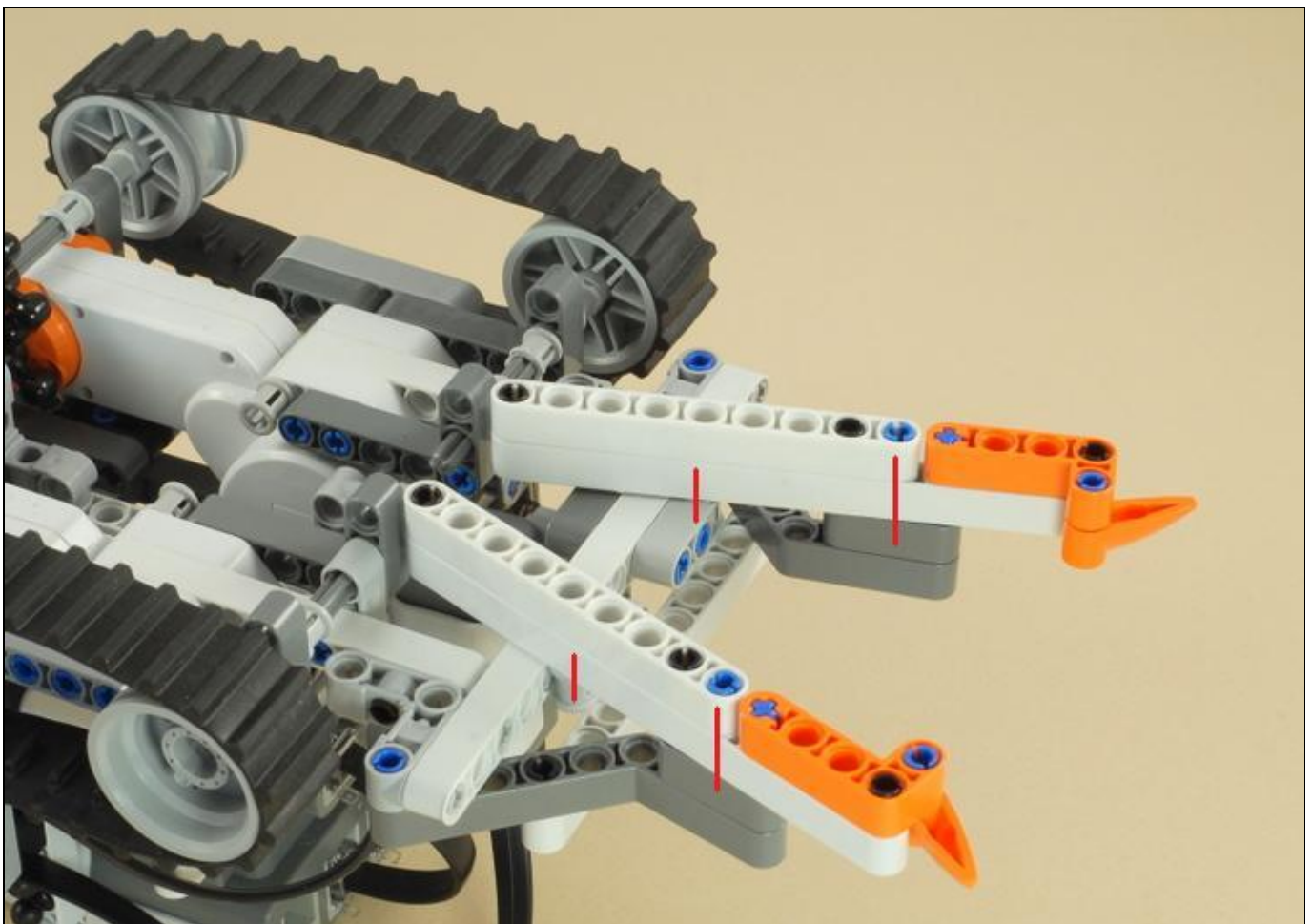




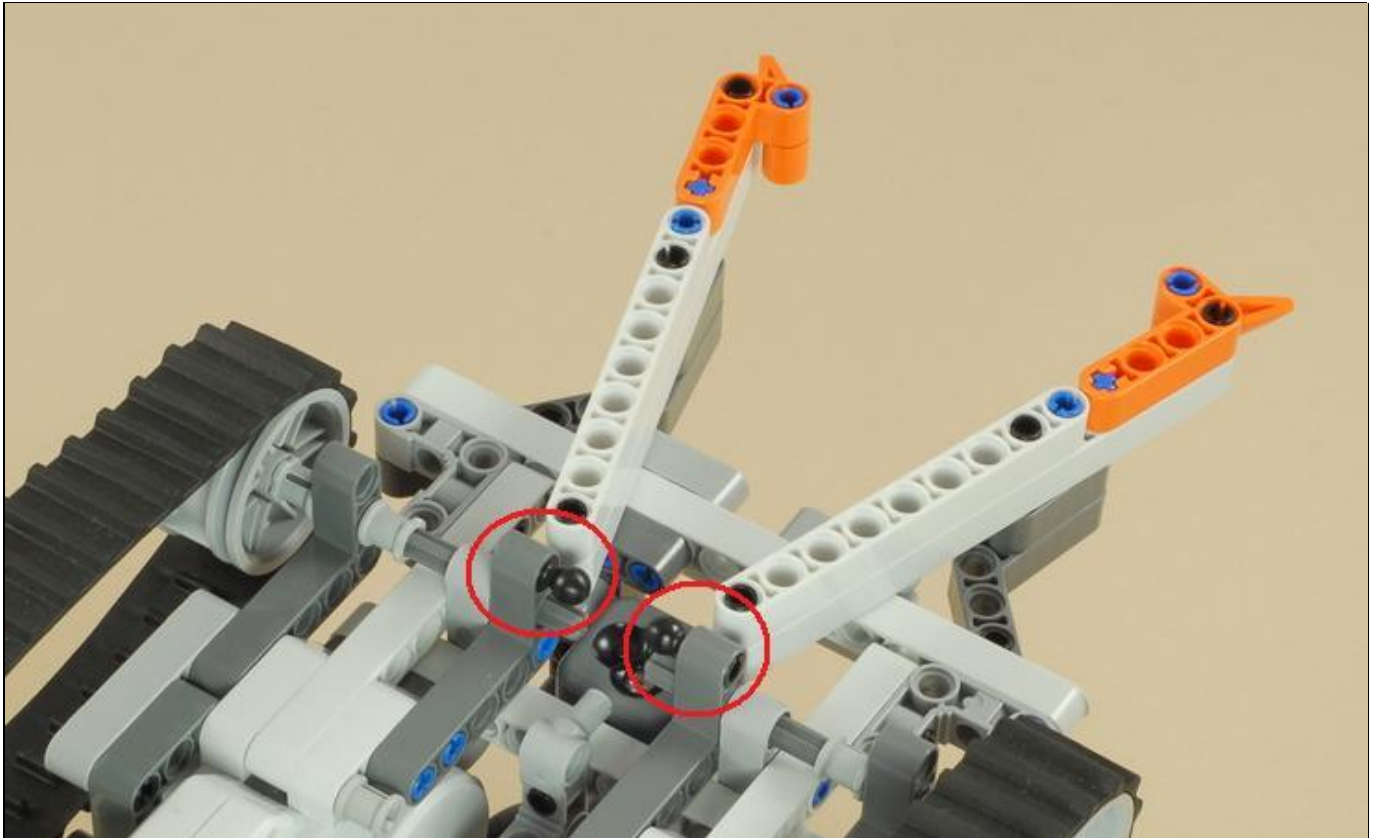
The hooks at the end of each trap arm help keep balls inside the trap while the robot is turning.



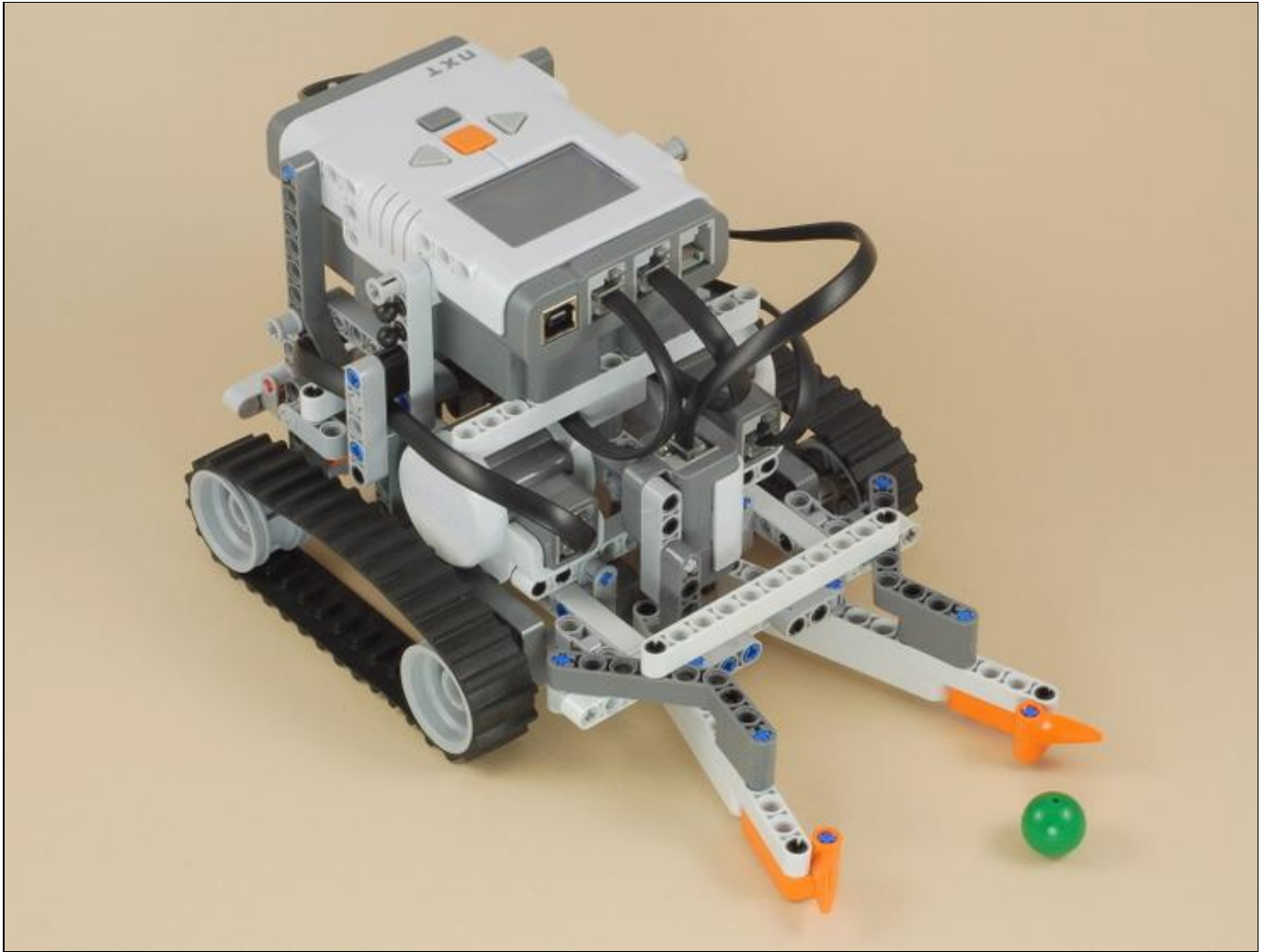
Each of the Ball Trap arms will attach with the two pegs in the locations shown by the red dashes below.



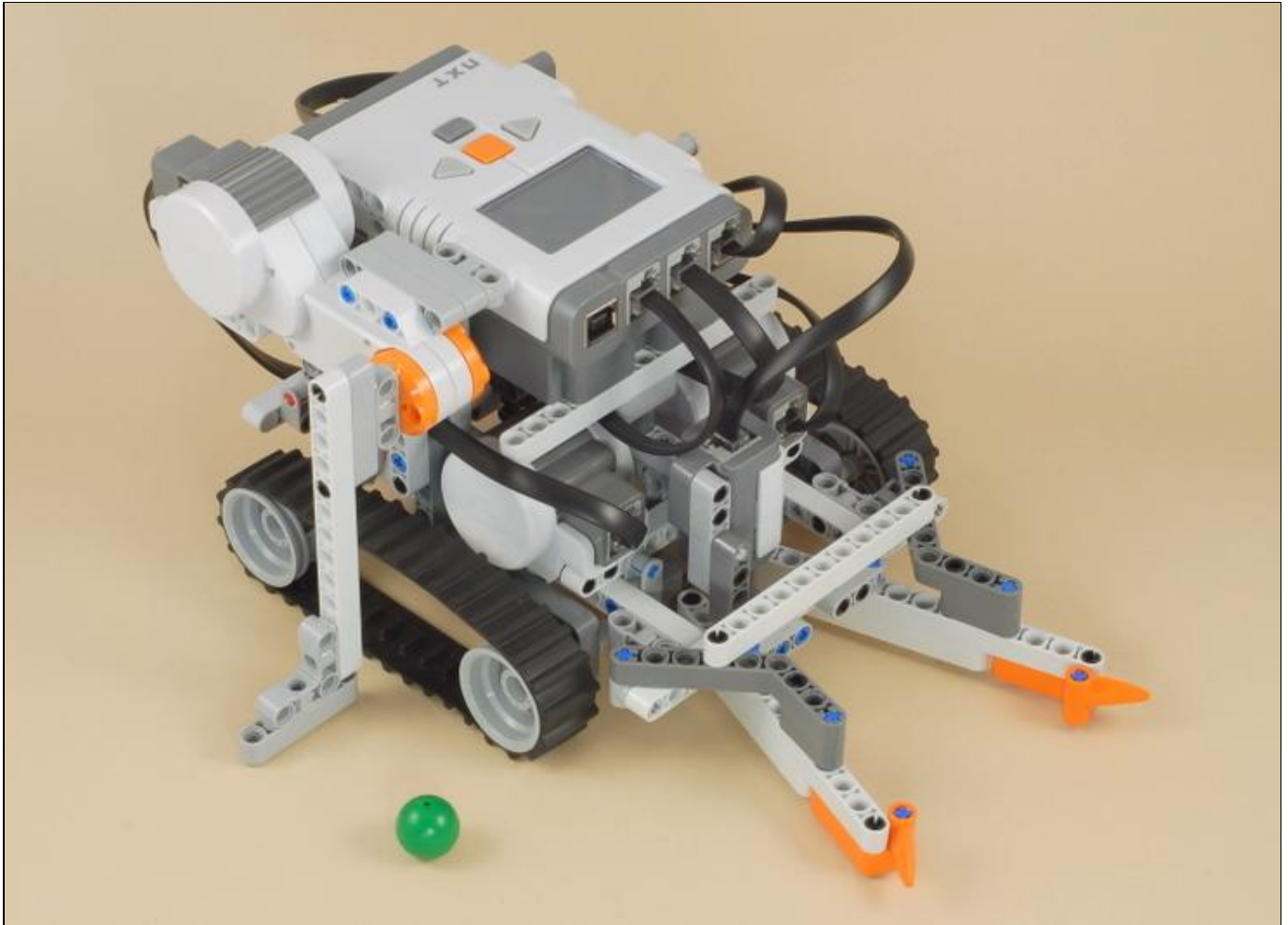
# 5



When a ball enters the Ball Trap Sensor, it is guided to the back of the trap, where the color sensor can see what color it is.



The Ball Trap Sensor attachment can also be combined with the [Golfing Arm](#) attachment (or also the [Ball Shooter Arm](#) attachment).



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