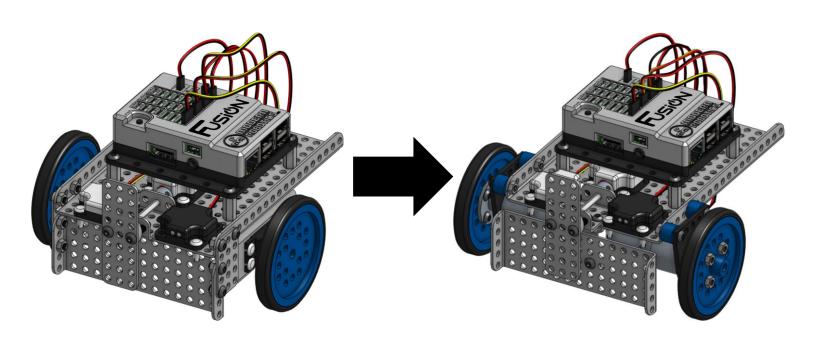


Base Bot Modification Instructions



Version 1.0.0 Modern Robotics, Inc.

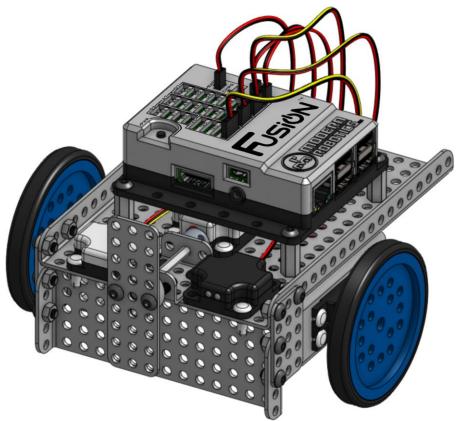


These instructions outline how to modify a Fusion Base Bot to use the higher torque DC motors.

Although the sensors used are different, this can be used to modify a Spartan Base Robot as well. You do not need to remove the Program Control Button (PCB) to make this modification.

The next page has a list of additional materials required for the modification. Take note that the Quick Connects are moved when the sensors are reattached to avoid hitting the motors underneath.





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Specifications subject to change without notice.

Parts Needed For Modification



x1 05-0303 3x3 Flanged Plate





x4 13-0004 8mm Spacer



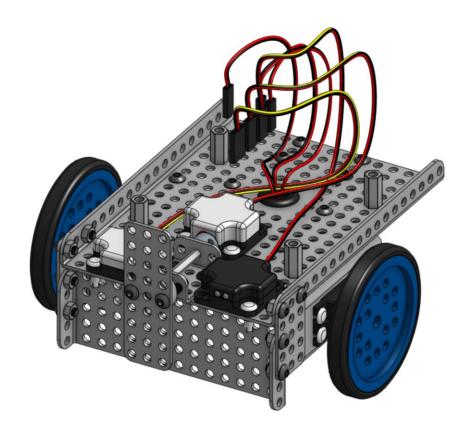
x4 11-3100 M3 Motor Screw



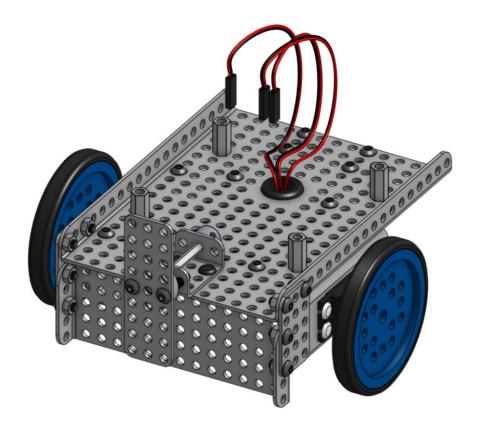
x2 60-0026 4-Hole Wheel Hub



Remove the controller from the robot.

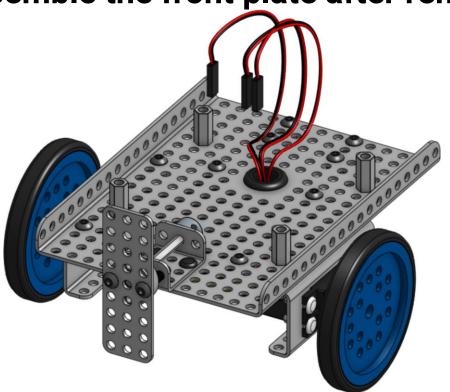


Remove the sensors from the robot.

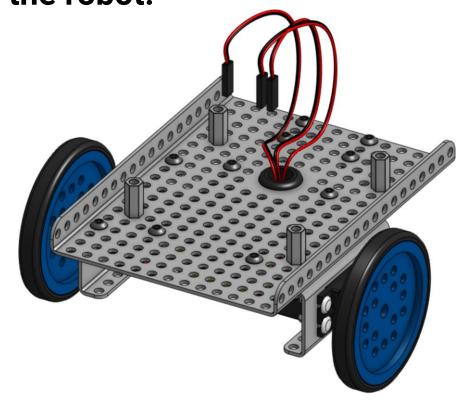


3 Remove the front plate from the robot.

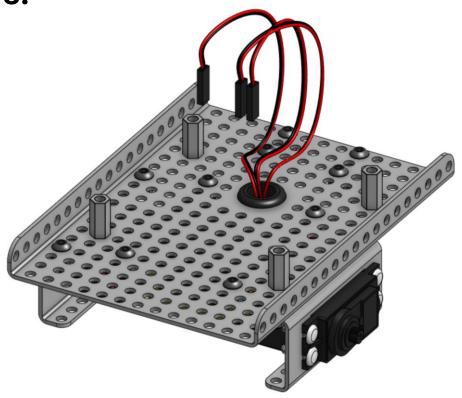
Disassemble the front plate after removing.



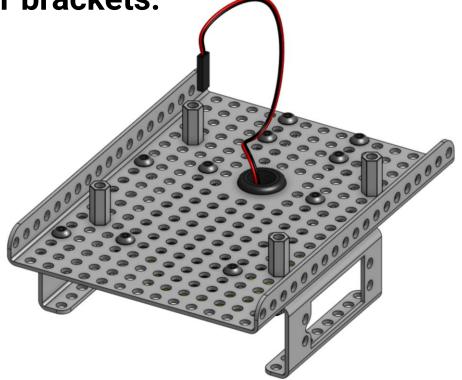
4 Remove the Touch Sensor Plate Assembly from the robot.



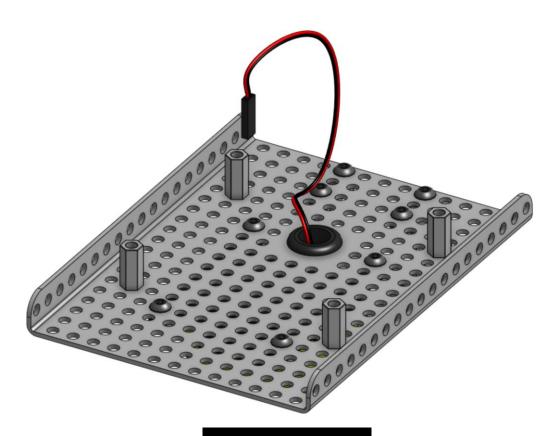
5 Remove the wheels from the servo style DC motors.



Remove the servo style DC motors from the motor brackets.

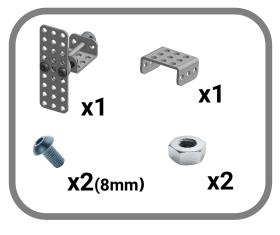


7 Remove the motor brackets from the base.

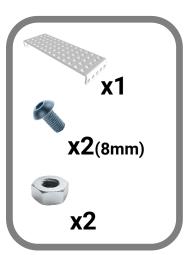


Assembly

8

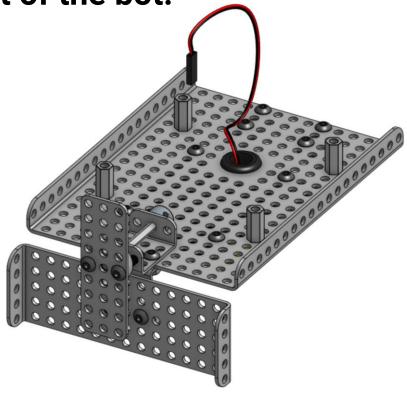


Reattach the TS Plate
Assembly adding the 3x3
flanged
plate.

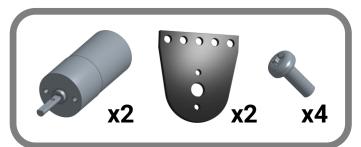


Attach the 5x13 plate to the

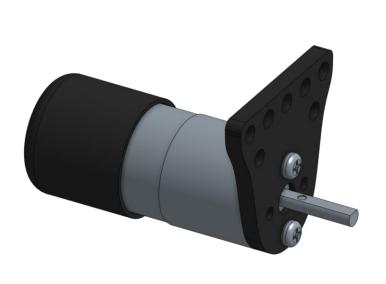
front of the bot.



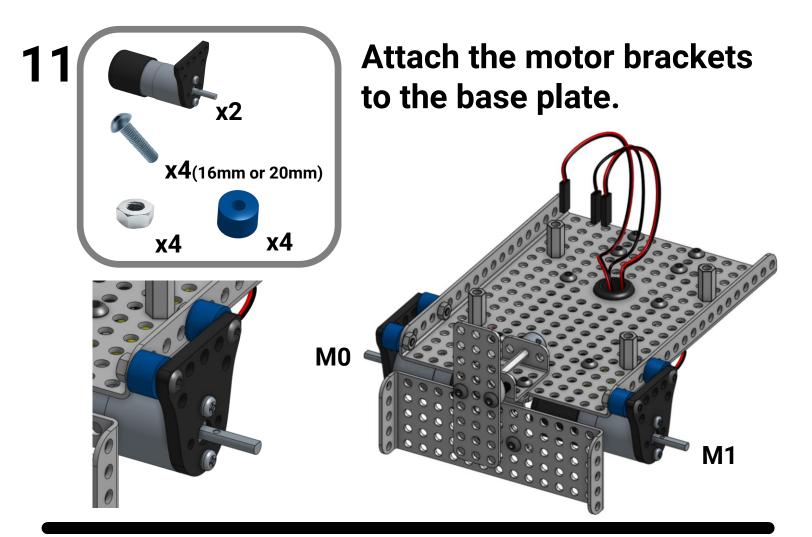
10

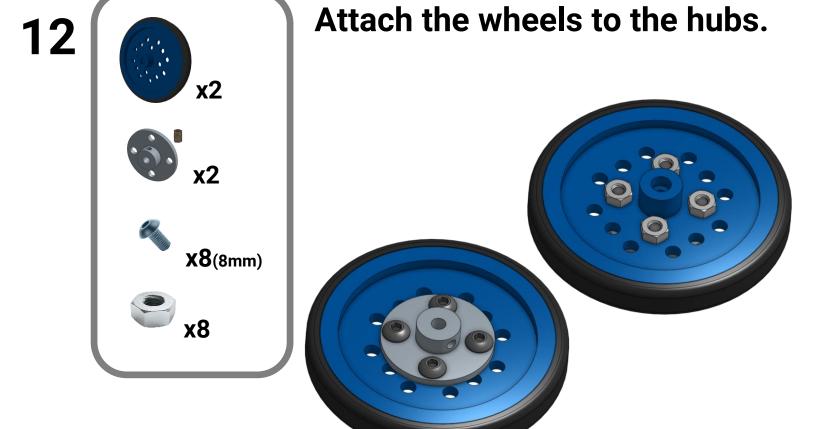


Attach the motors to the motor brackets using the supplied screws.





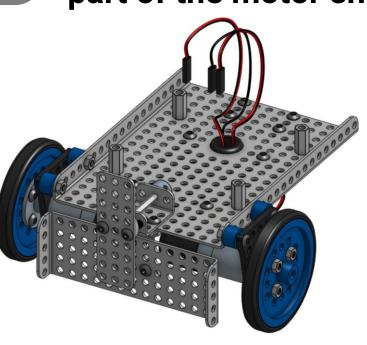




13



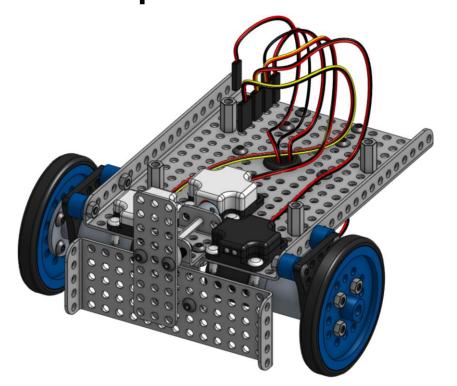
Attach the wheels to the motors using the set screw in the hubs. Tighten the set screw to the flat part of the motor shaft.



14



Reattach the sensors into the position they were in before. Note the quick connect location.



15



Reattach the Fusion Controller to the standoffs.

