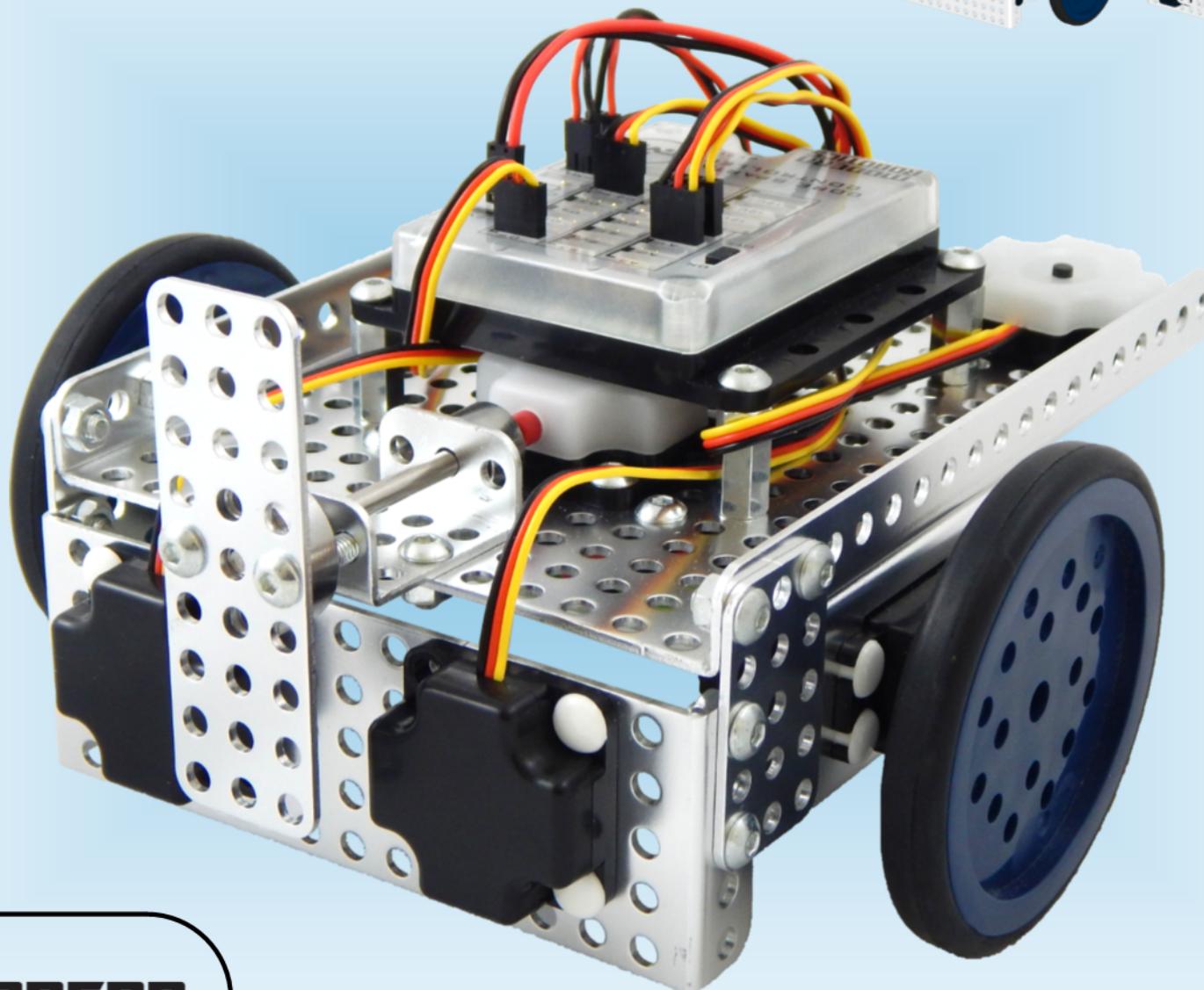
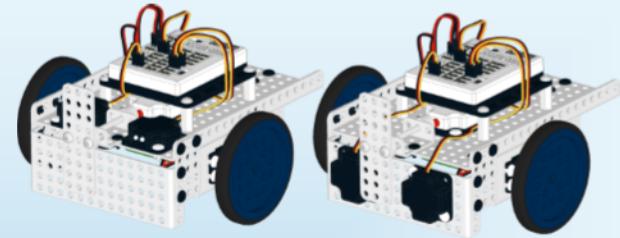


Spartan Base Robot



**MODERN
ROBOTICS**
inc.

Controlling the future of robotics.

©2016

Before You Get Started...

Two types of fasteners are included in the Spartan Base Kit; screws and quick connects.

The following instructions use quick connects whenever possible. You may also choose to use all screws or a combination of both.

Black (short) quick connects secure two layers of metal together. White (medium) quick connects secure three pieces of metal together or a sensor to a piece of metal.



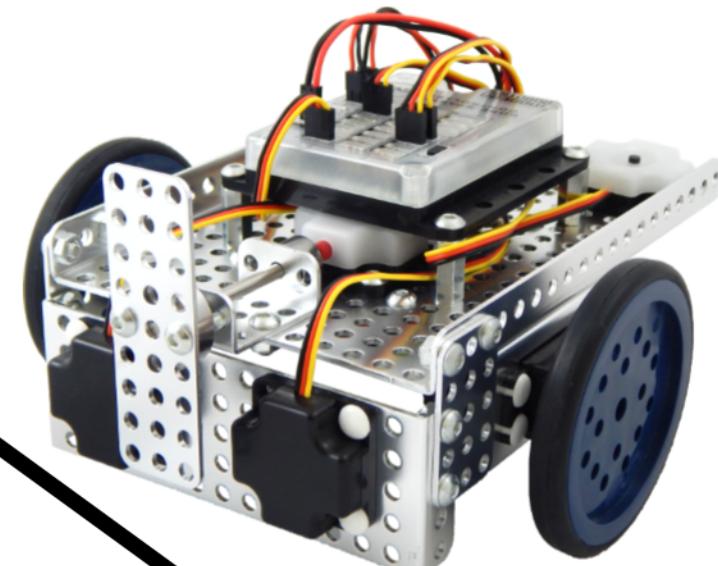
Battery Charger

To charge your robot battery, connect the battery to the port on the controller labeled 6V. Connect your charger to a wall outlet. Then connect the charger to the CHGR port on the controller. The battery is fully charged when the light on the charger changes color or turns off. This can take a couple hours.

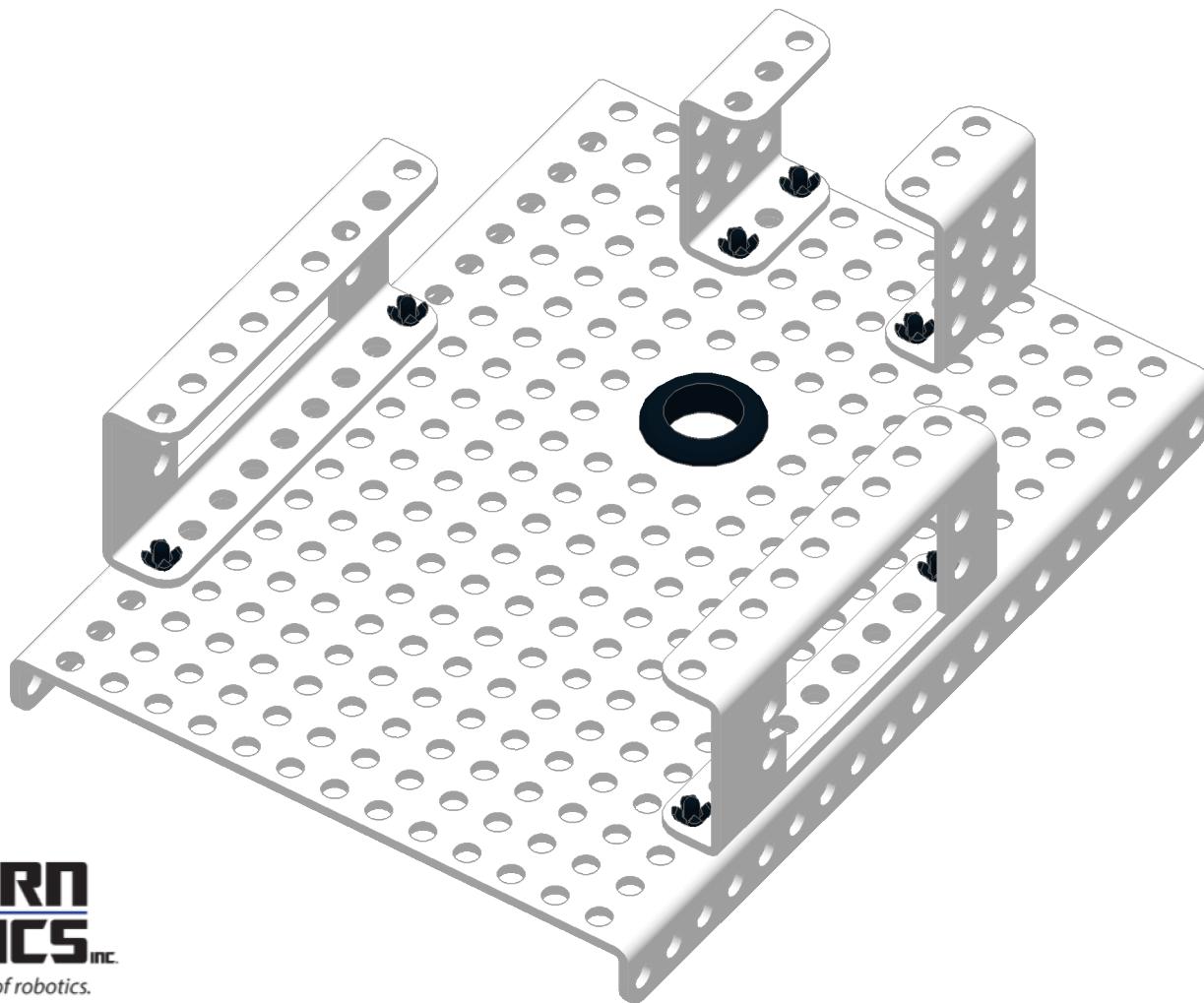
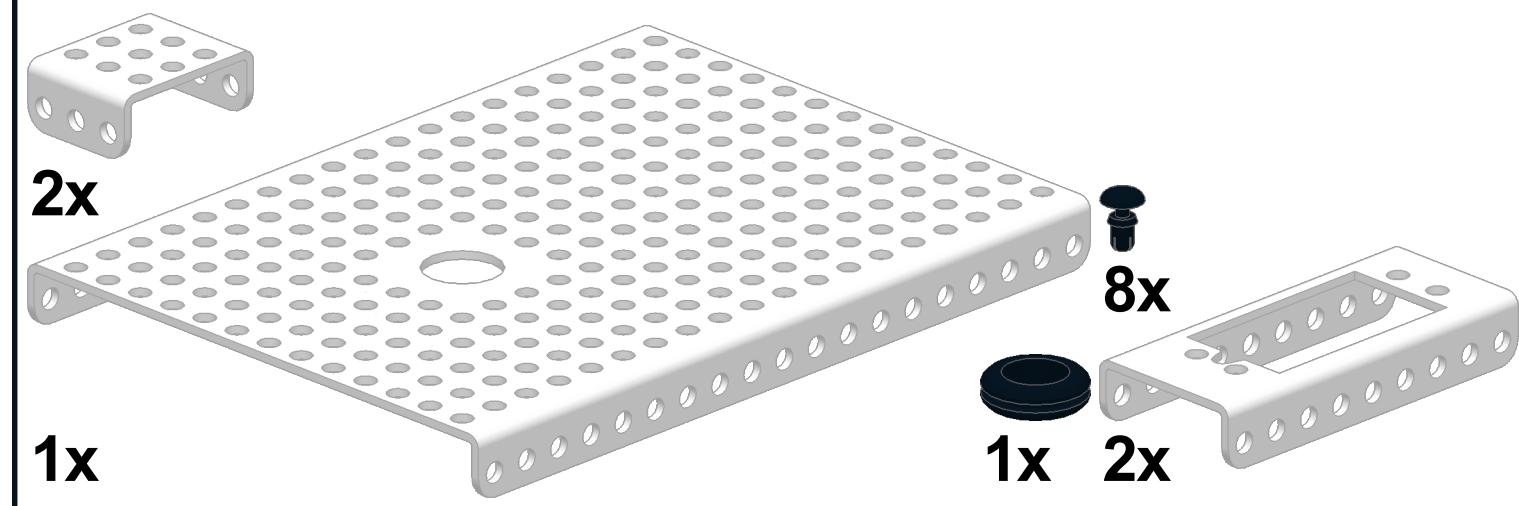
Rubber Grommet!

There is a rubber grommet in the middle of the robot. Pass the wires from the battery and motors through this grommet.

You can also keep extra wire out of the way by wrapping them around the standoffs that hold up the controller. Notice how neat the wires are on this robot.



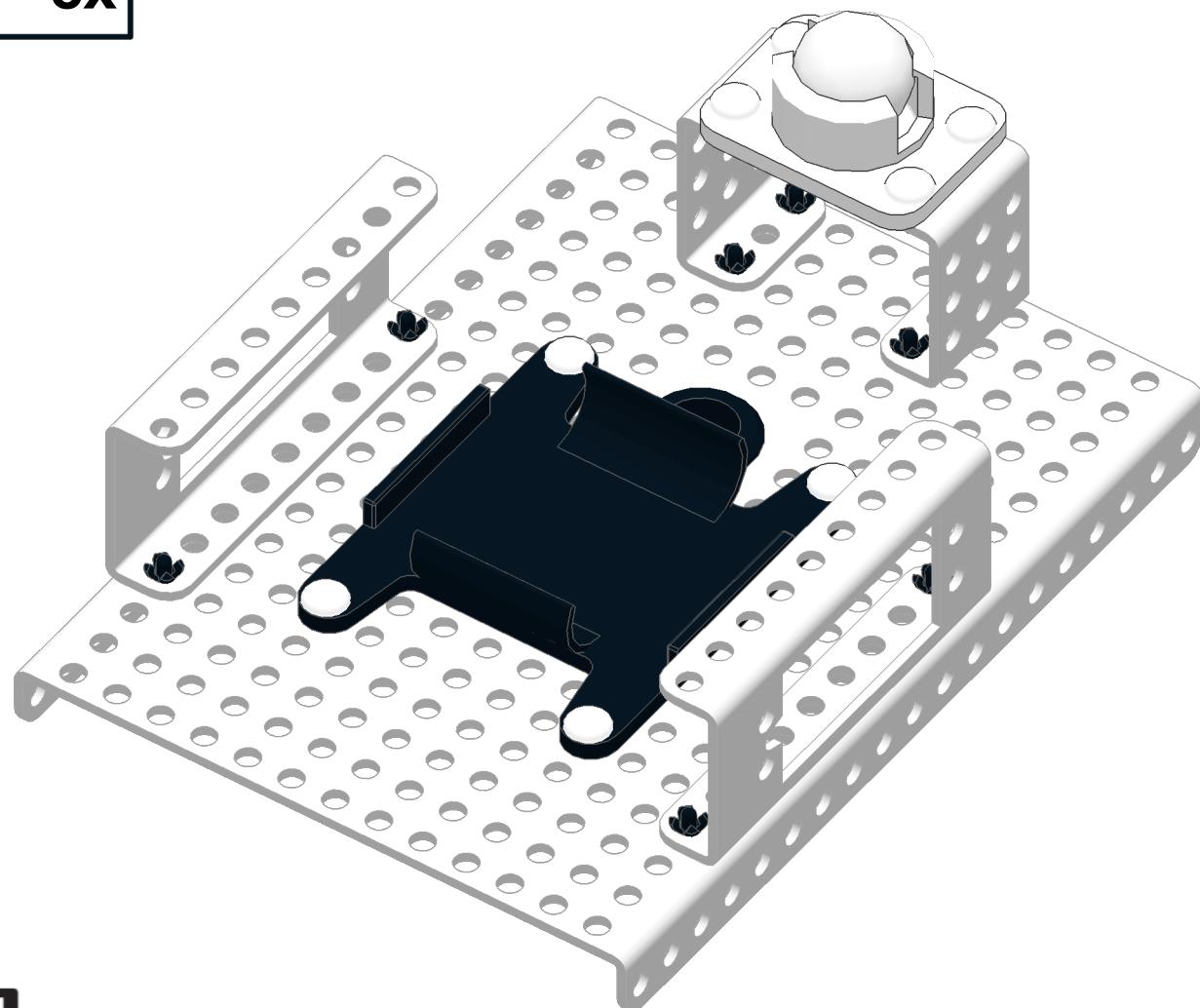
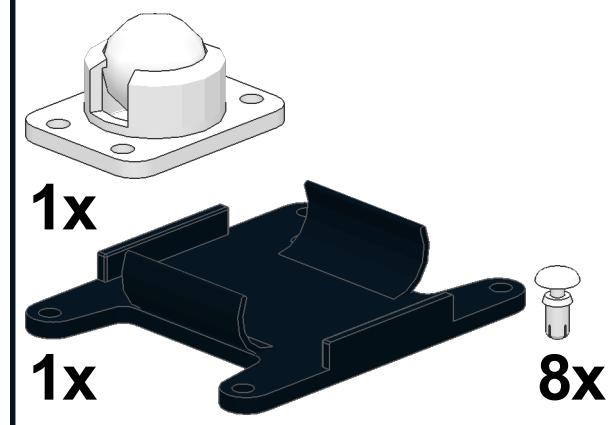
1



**MODERN
ROBOTICS**
inc.

Controlling the future of robotics.

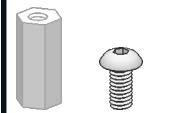
2



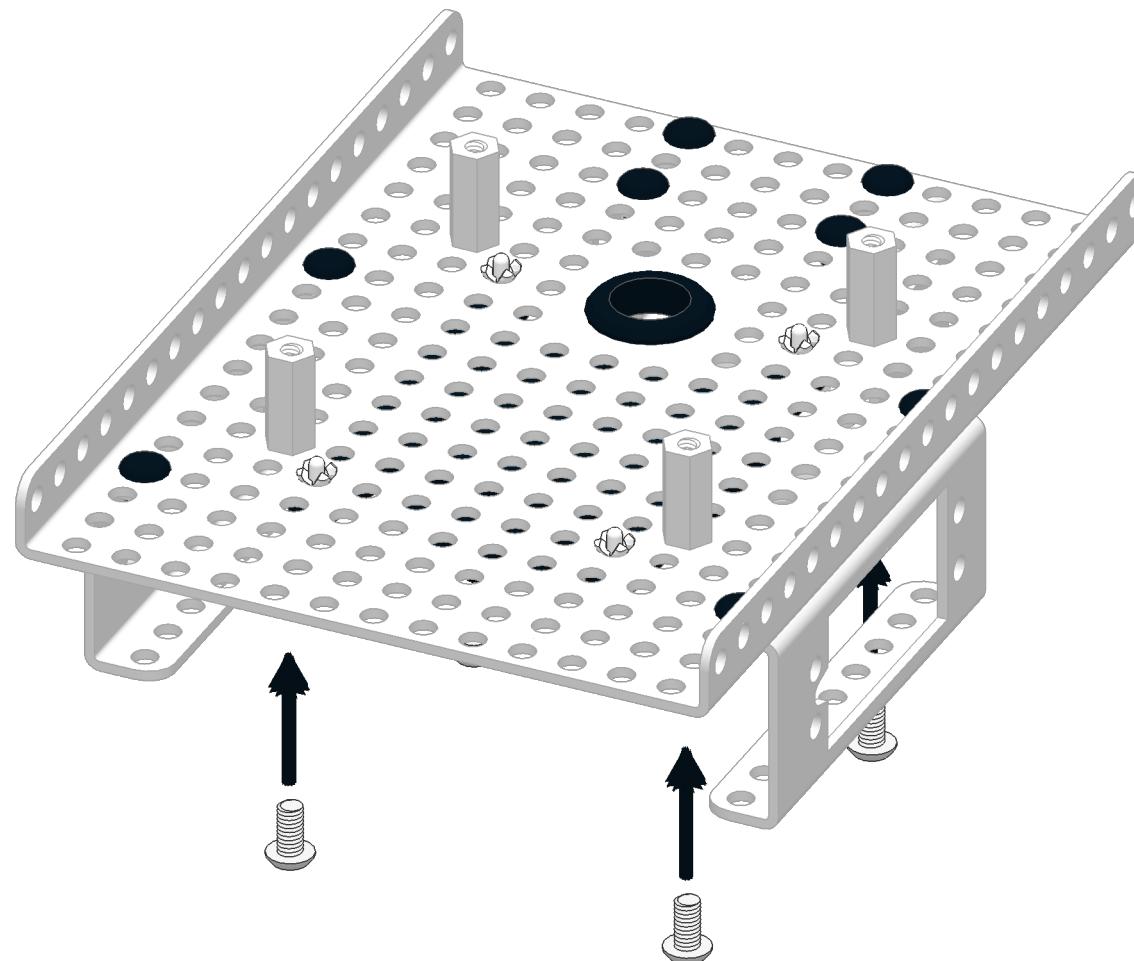
MODERN
ROBOTICS^{inc.}

Controlling the future of robotics.

3



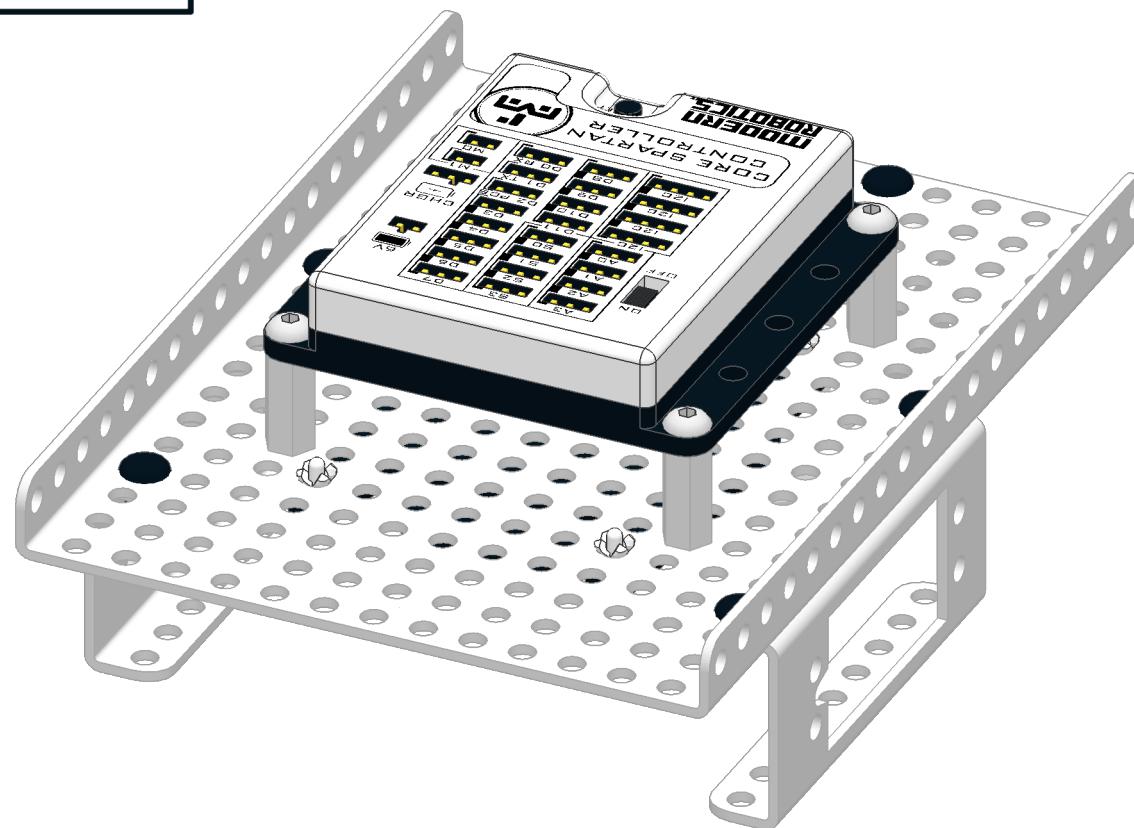
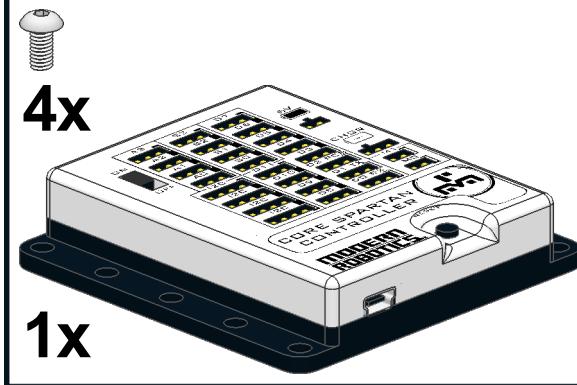
4x 4x



**MODERN
ROBOTICS^{inc.}**

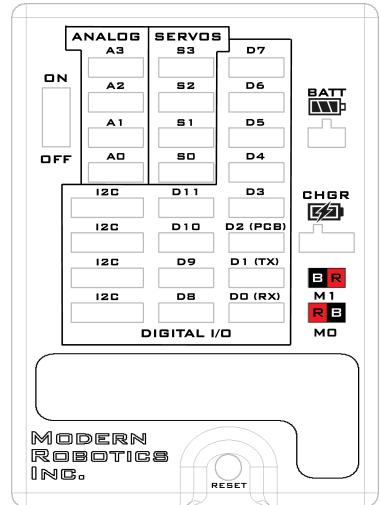
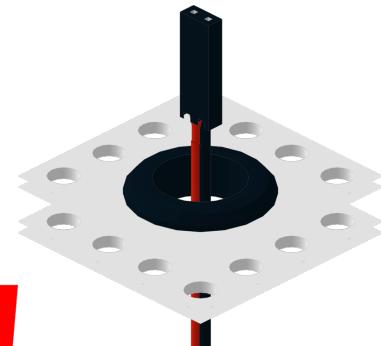
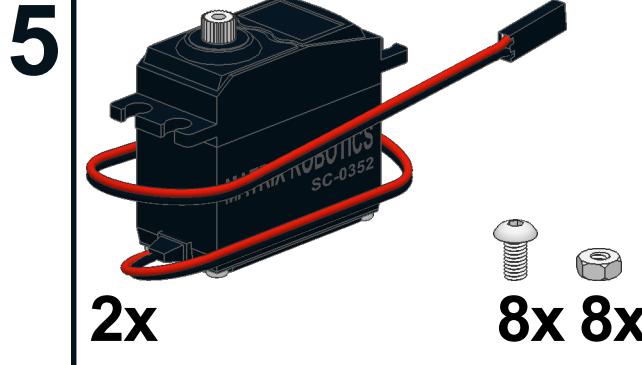
Controlling the future of robotics.

4

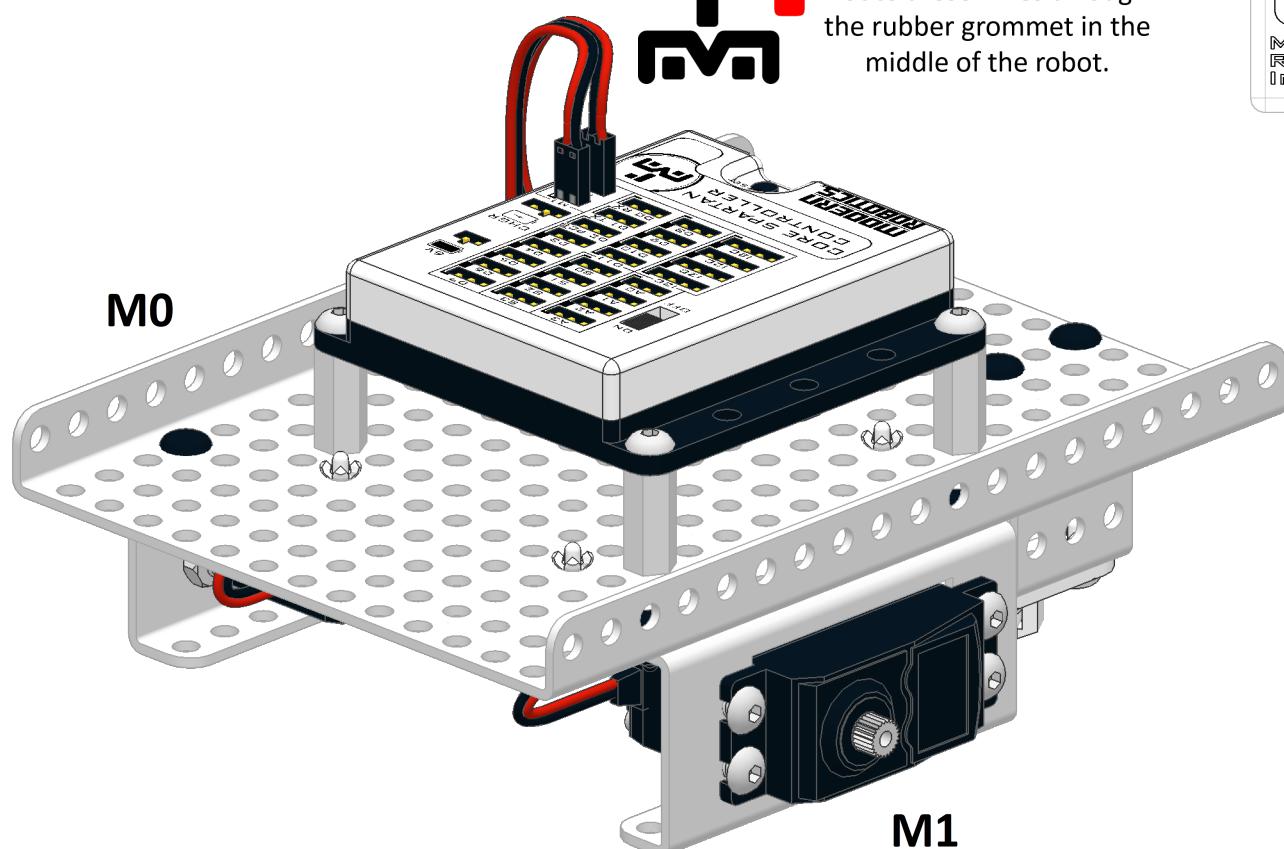


**MODERN
ROBOTICS**^{inc.}

Controlling the future of robotics.



Route these wires through
the rubber grommet in the
middle of the robot.



Use the largest ball driver
to twist these screws into
the mounting holes.

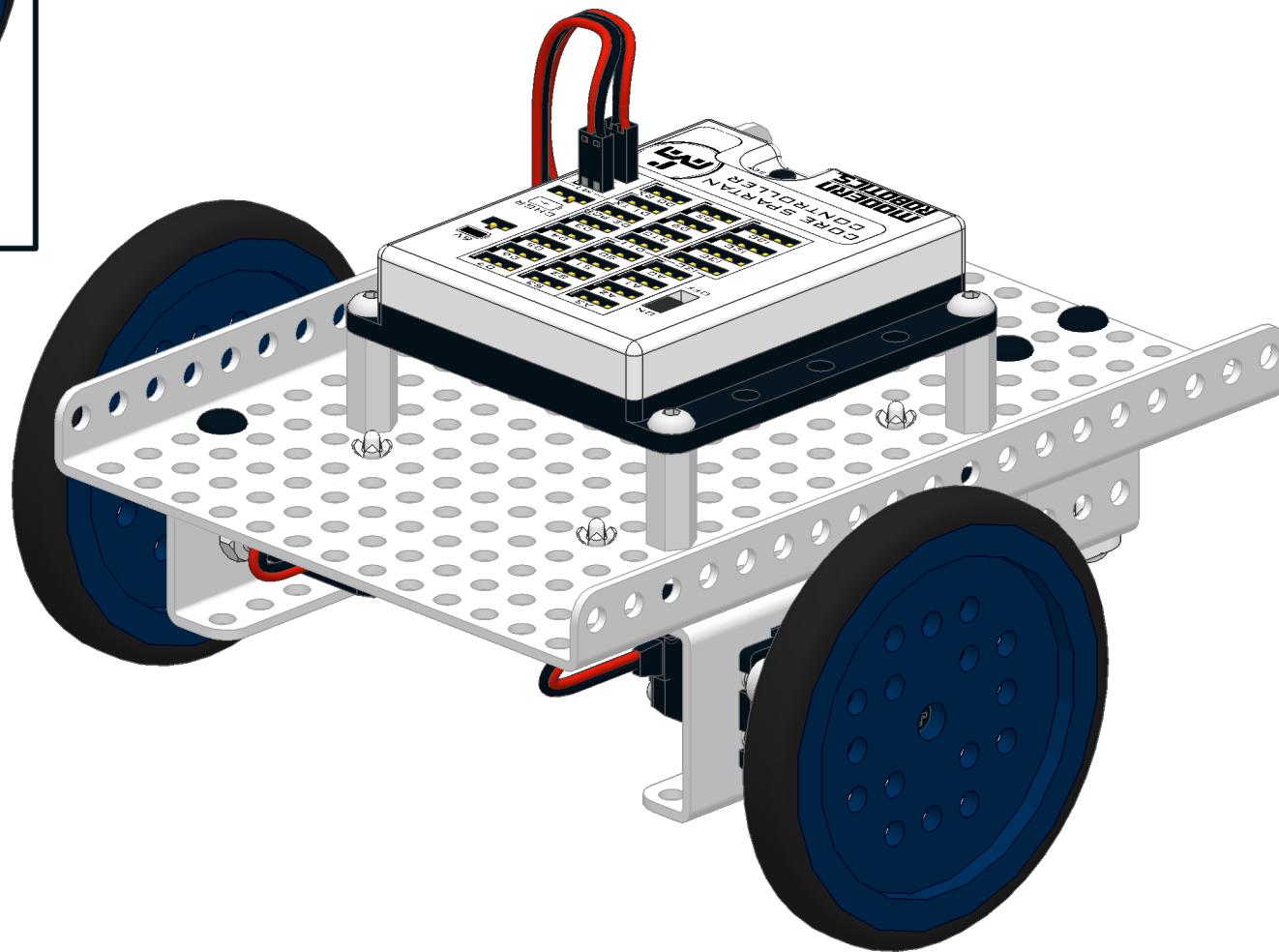


**MODERN
ROBOTICS**
inc.

Controlling the future of robotics.

6

2x



**MODERN
ROBOTICS^{inc.}**

Controlling the future of robotics.

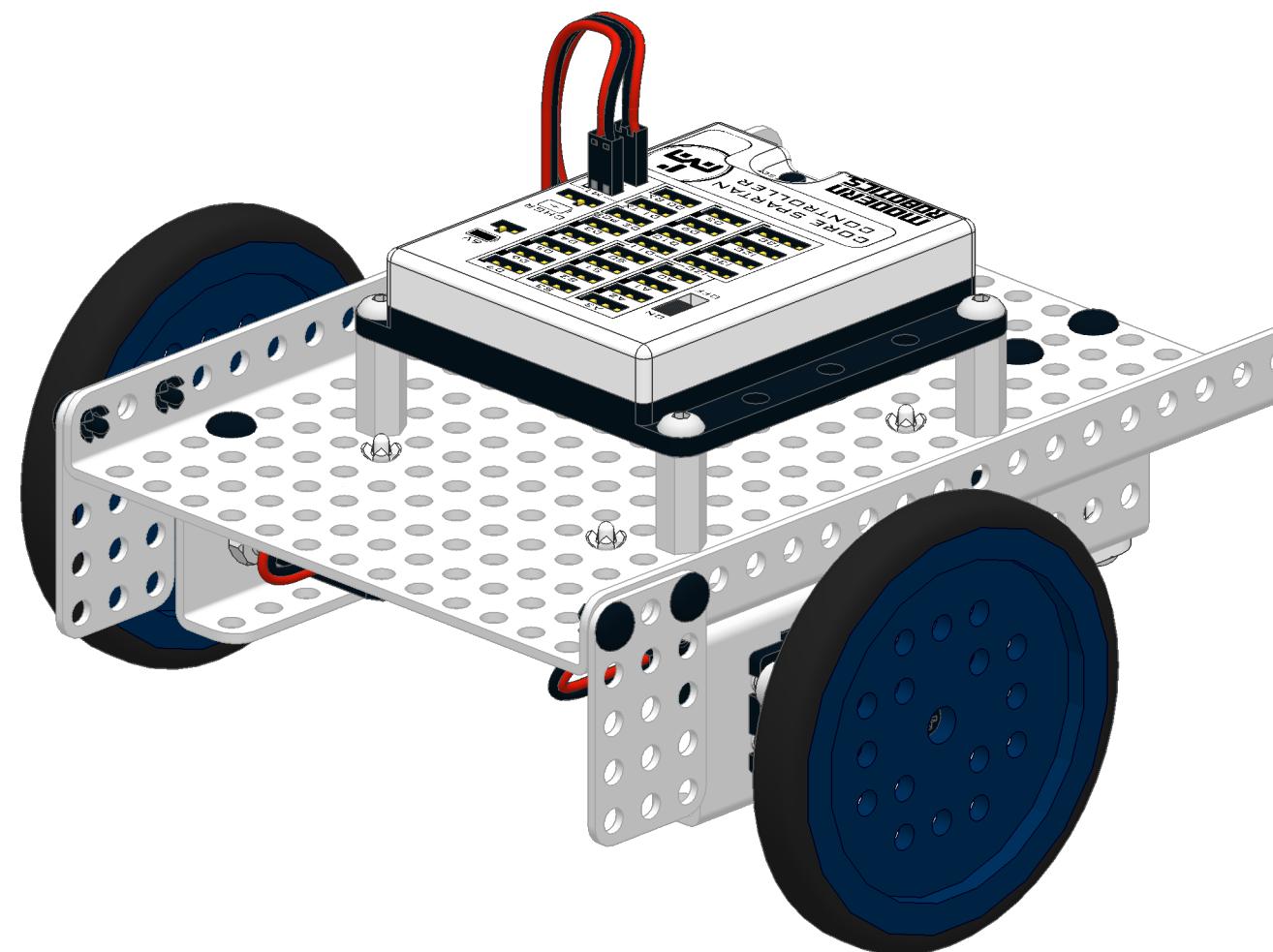
7



2x



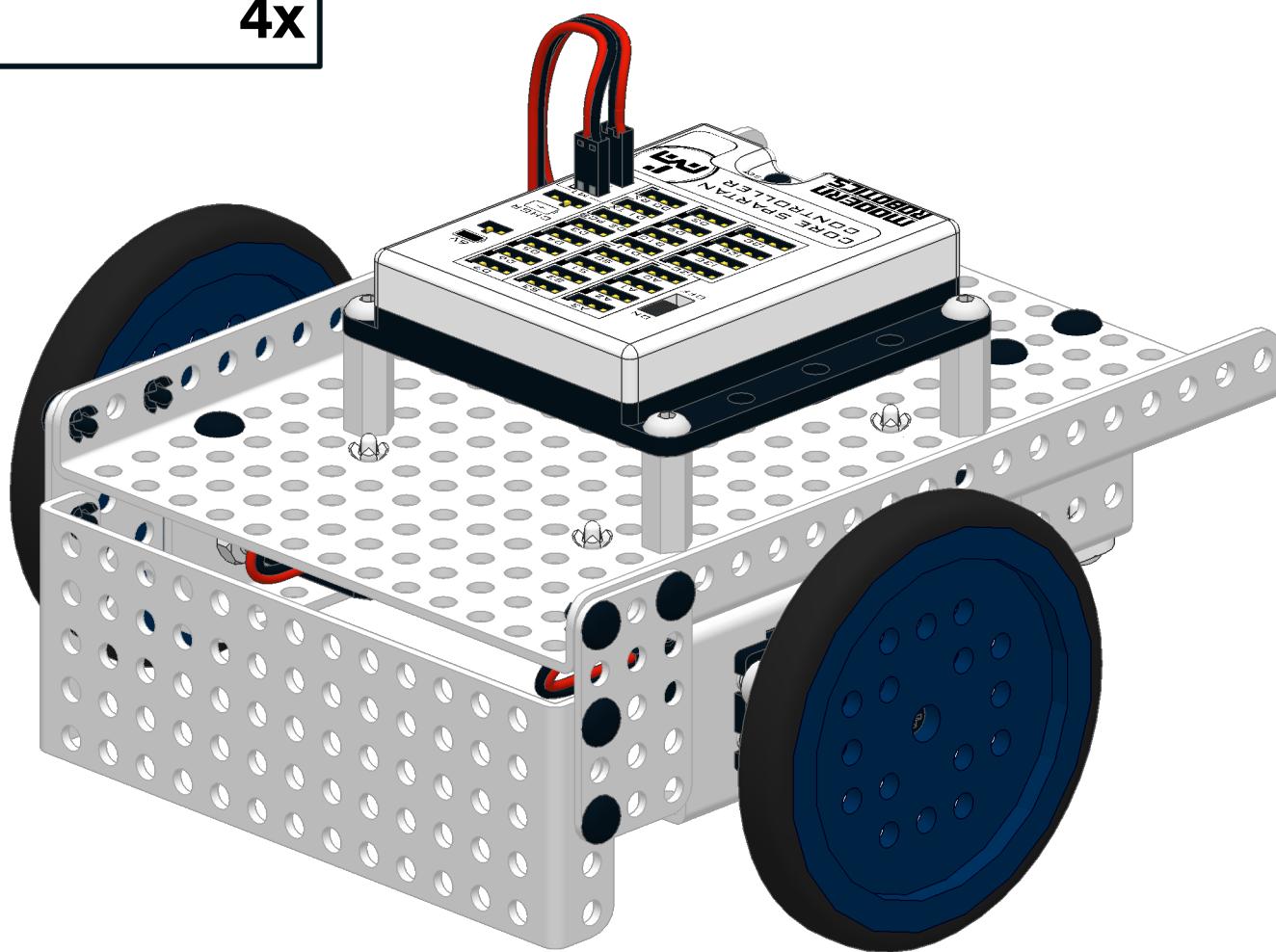
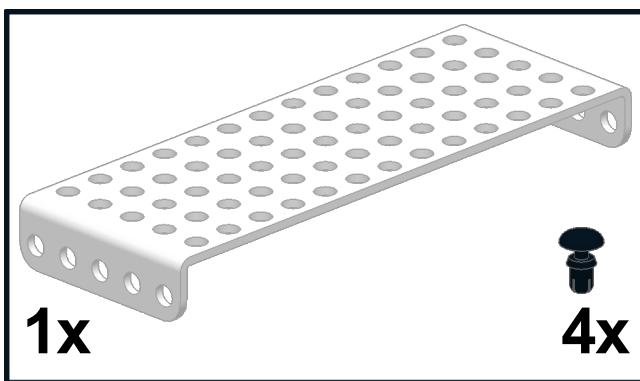
4x



**MODERN
ROBOTICS^{inc.}**

Controlling the future of robotics.

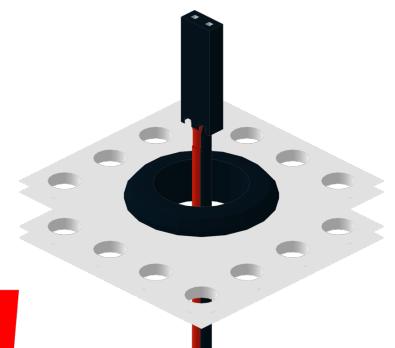
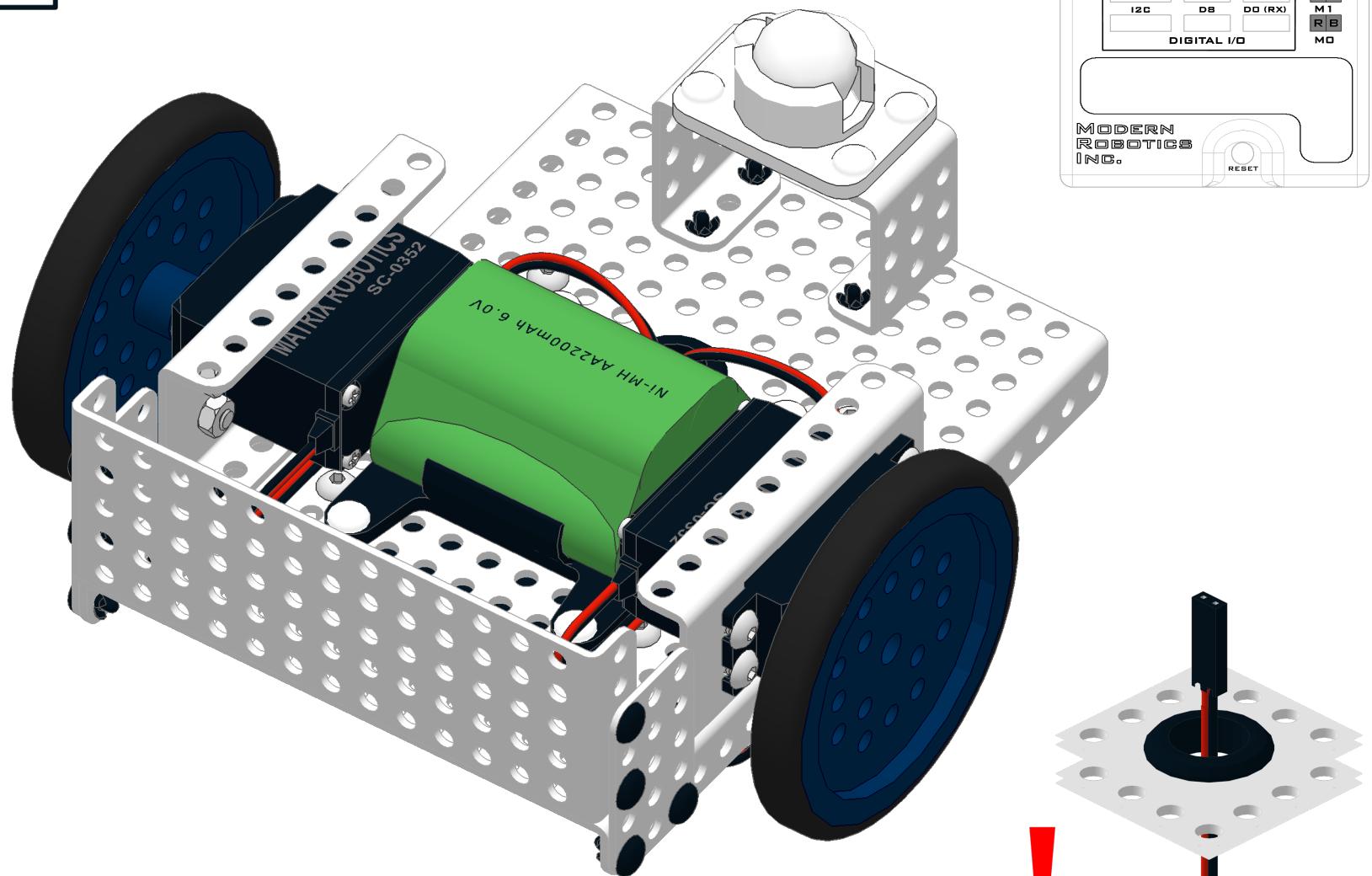
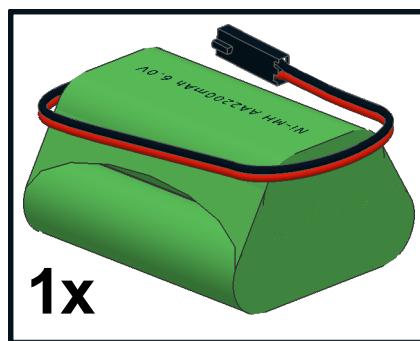
8



**MODERN
ROBOTICS**^{inc.}

Controlling the future of robotics.

9



Route these wires through
the rubber grommet in the
middle of the robot.



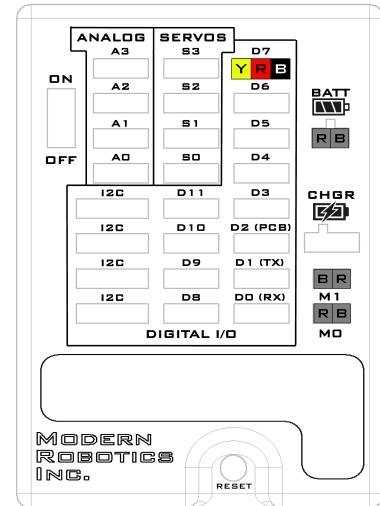
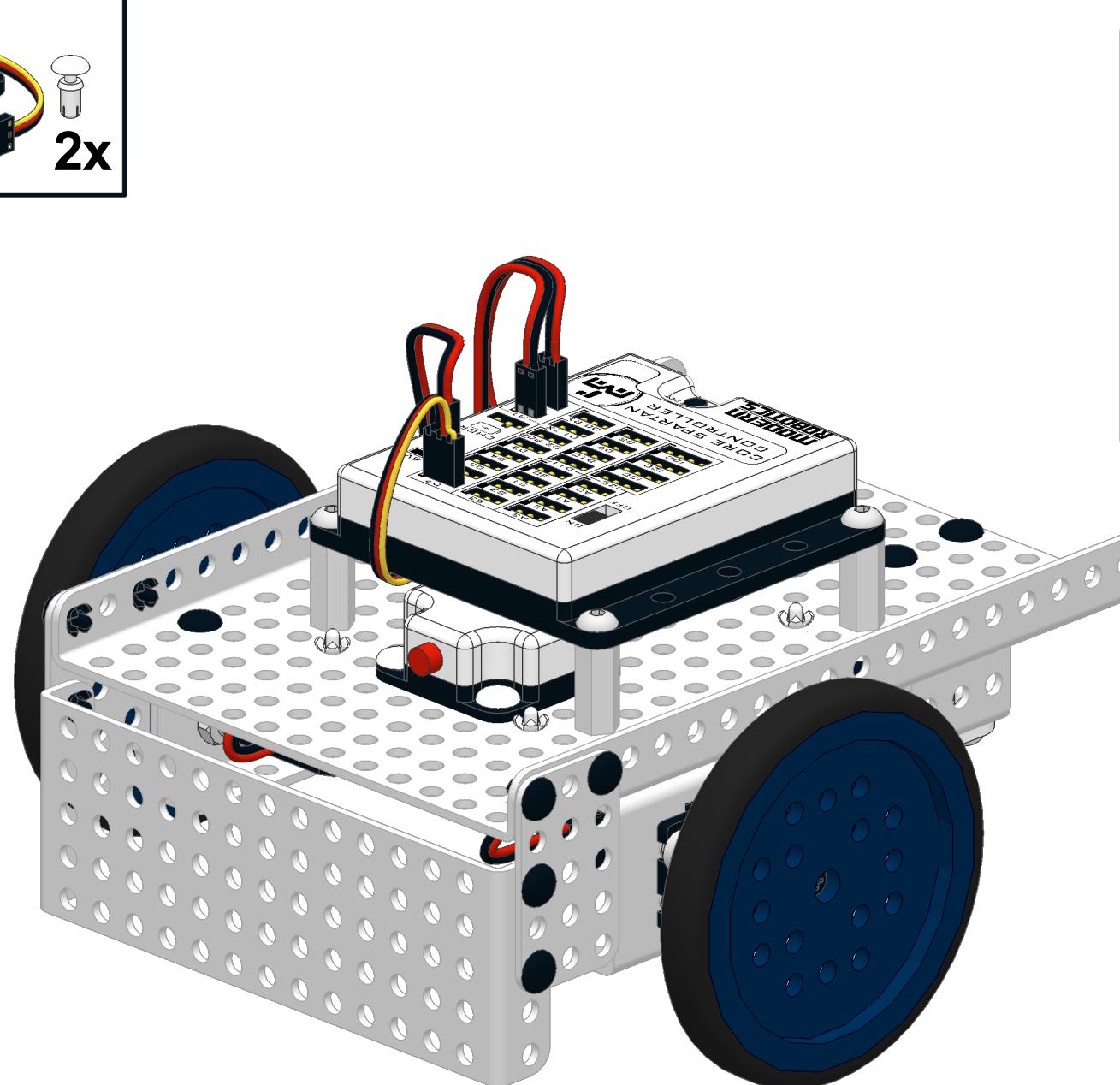
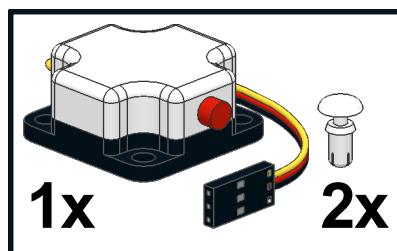
MODERN
ROBOTICS^{inc.}

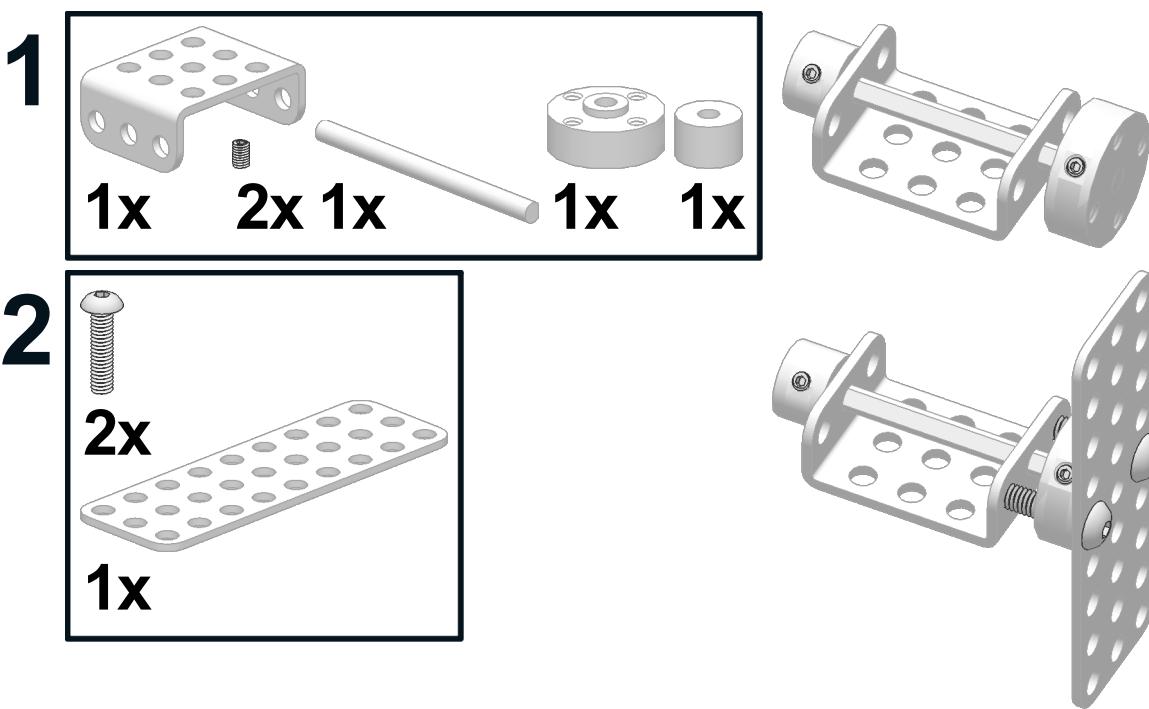
Controlling the future of robotics.



10

10

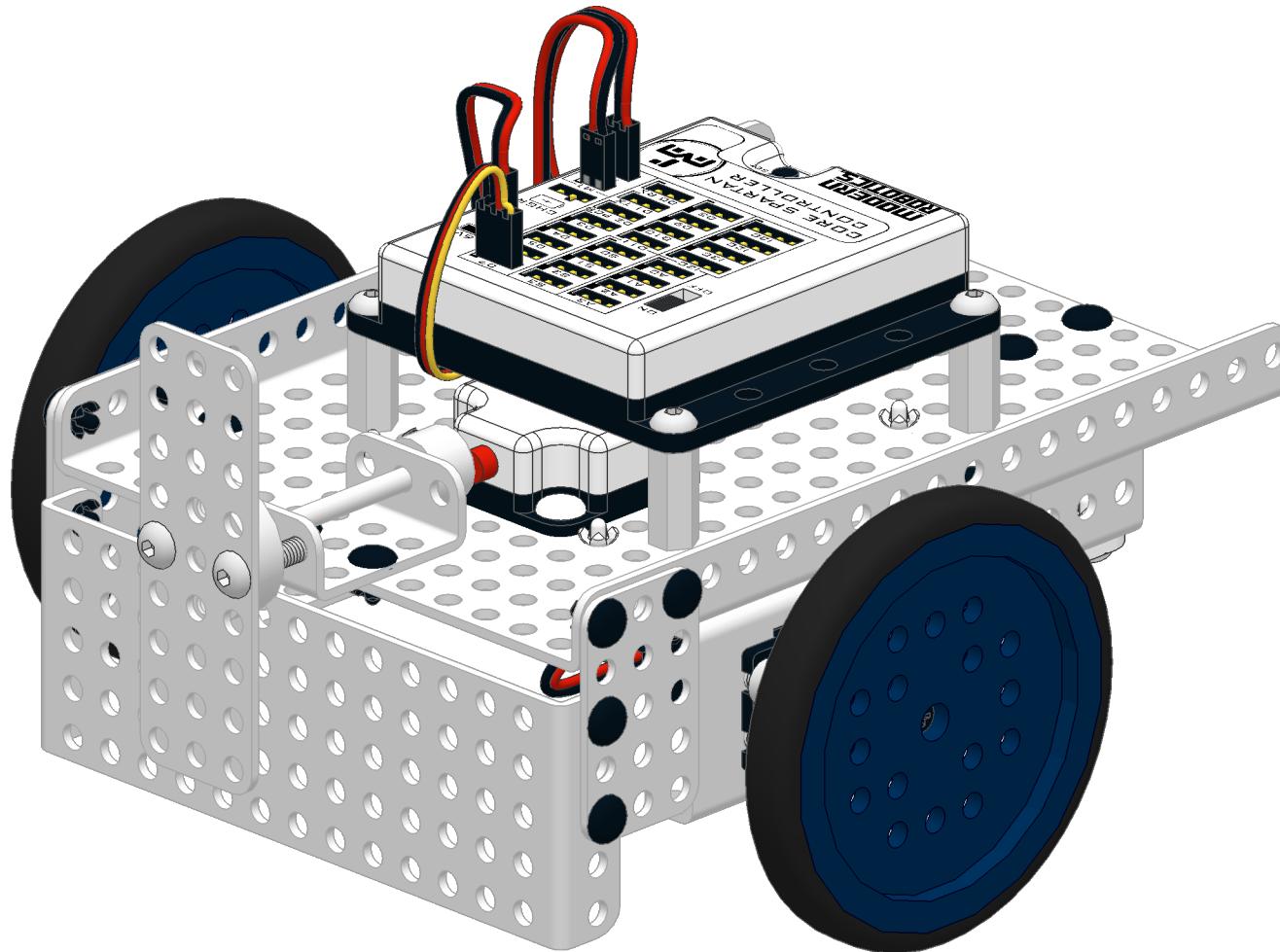




11



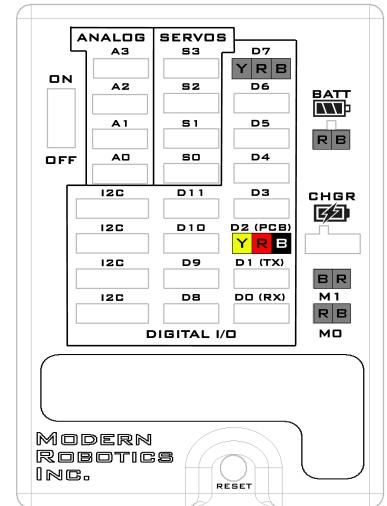
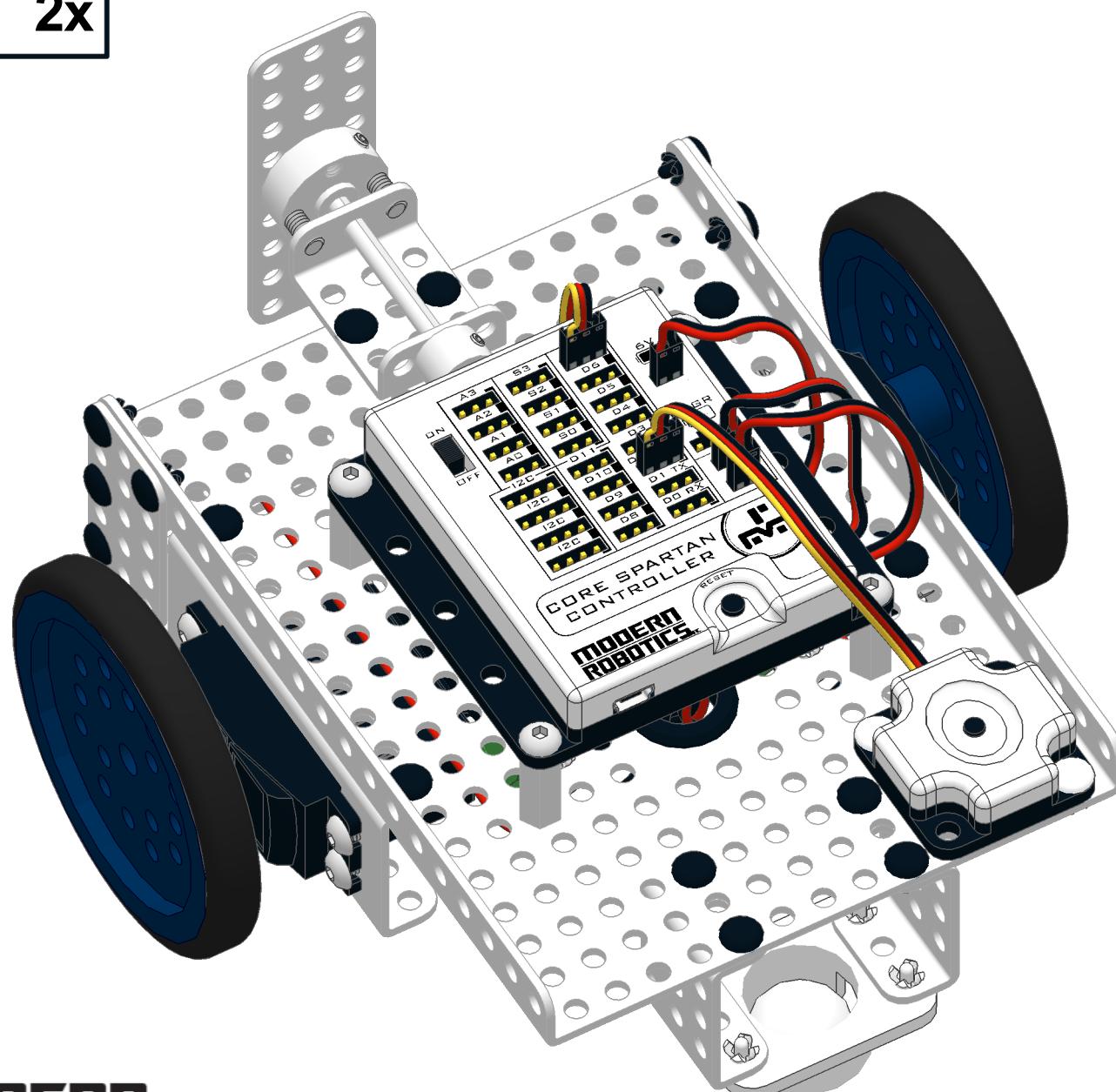
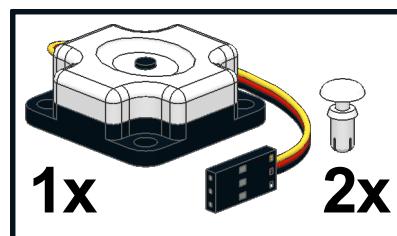
2x



MODERN
ROBOTICS^{inc.}

Controlling the future of robotics.

12

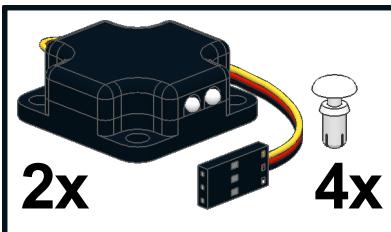


**MODERN
ROBOTICS**
inc.

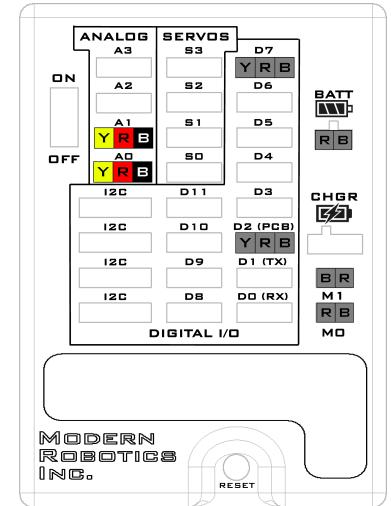
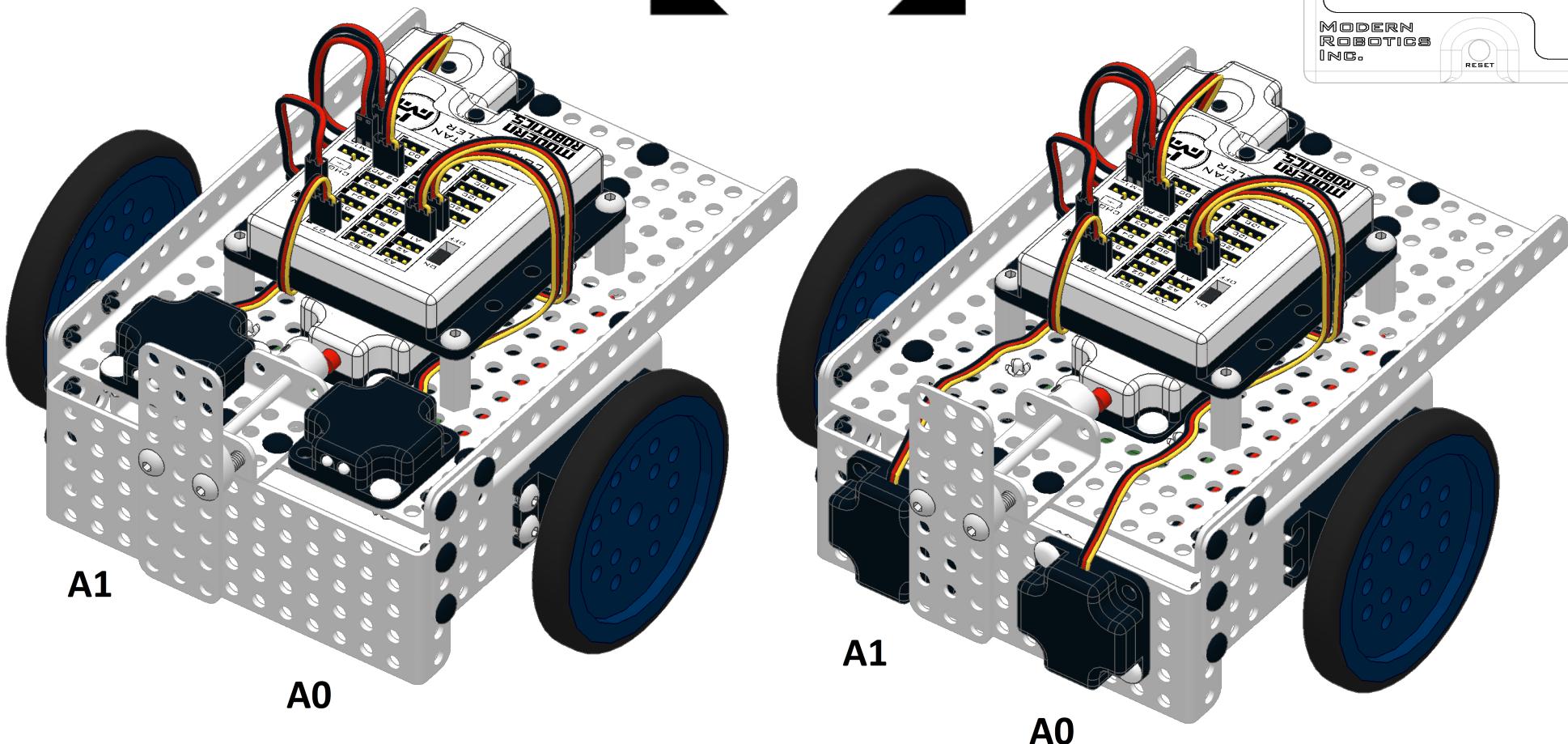
Controlling the future of robotics.

14

13

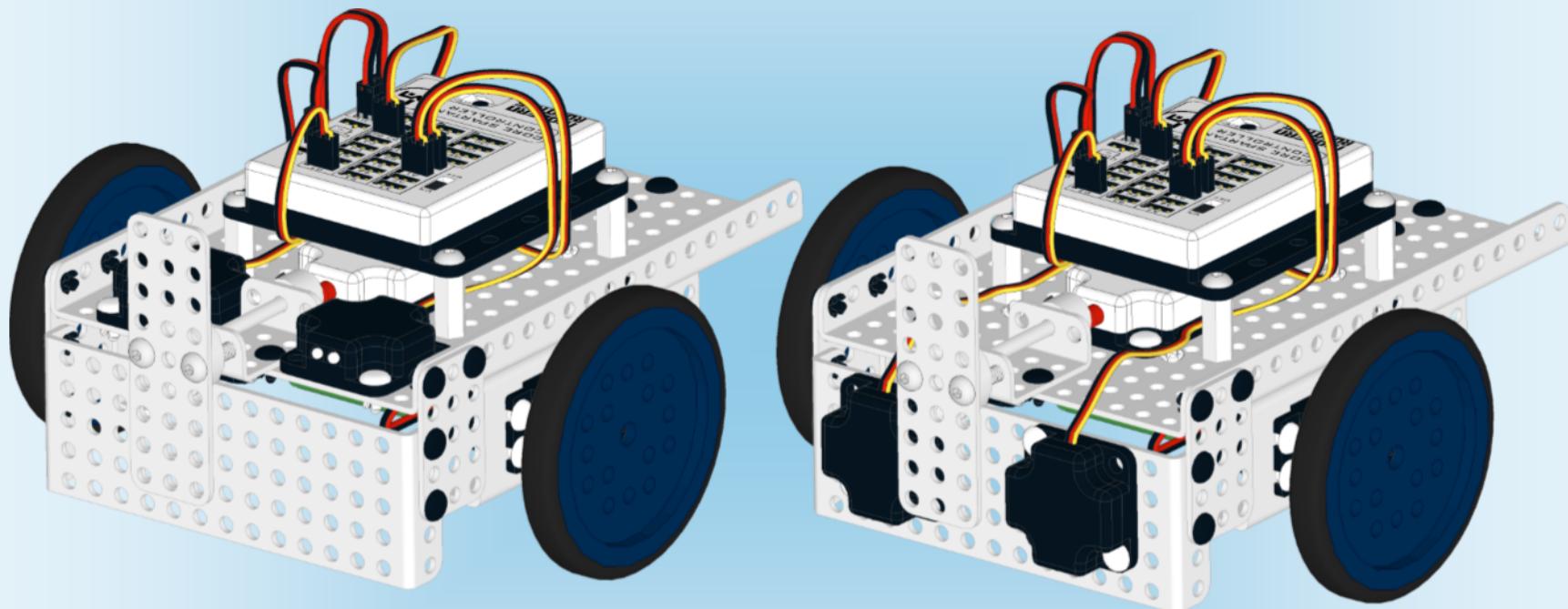


Hand Follower Line Follower



**MODERN
ROBOTICS^{inc.}**
Controlling the future of robotics.

**For programming resources, visit
modernroboticsinc.com/spartan**



**Get moving with the HandFollower or
LineFollower example program.**

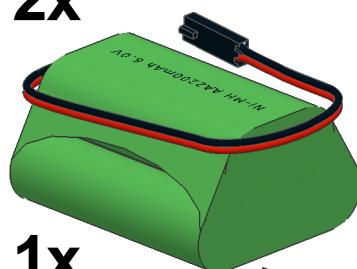


**MODERN
ROBOTICS[®].inc.**

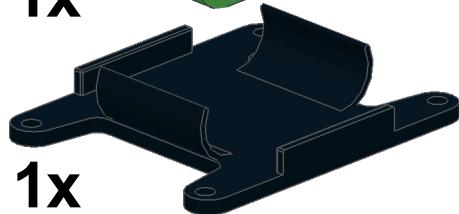
Controlling the future of robotics.


1x

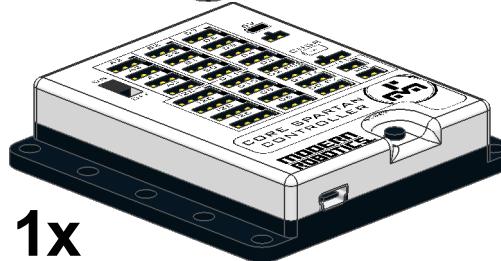
2x



1x

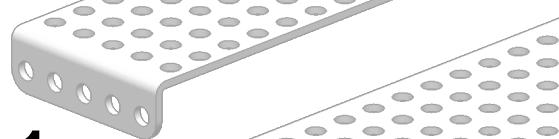


1x

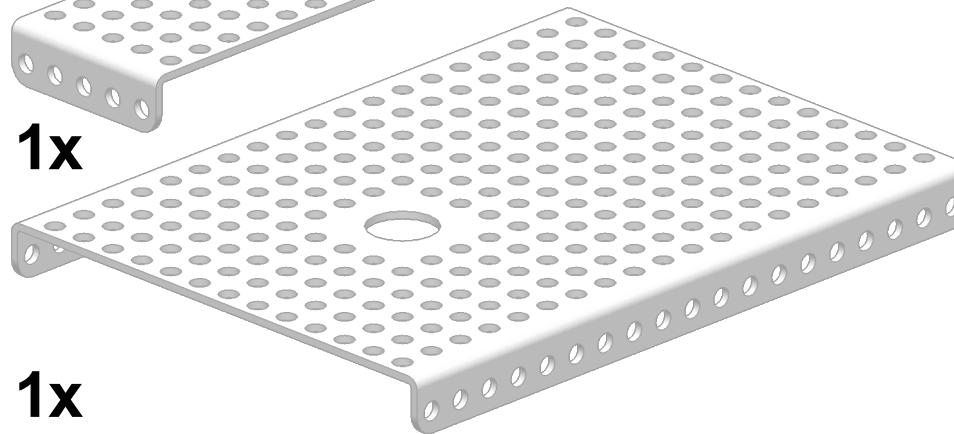


1x

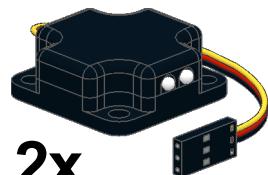
2x



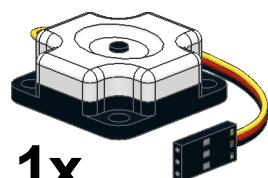
1x



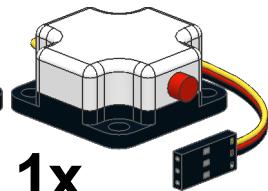
1x



2x



1x



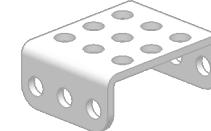
1x



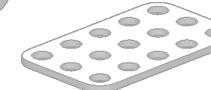
18x



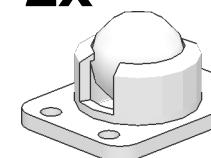
1x



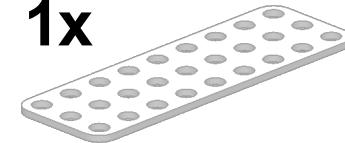
3x



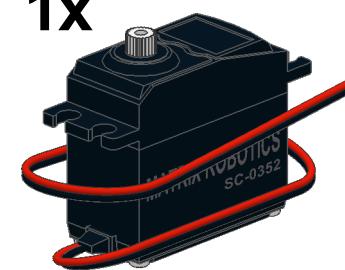
2x



1x



1x



2x



2x



8x



2x



1x



4x



2x



1x



16x



16x

**MODERN
ROBOTICS^{inc.}**

Controlling the future of robotics.