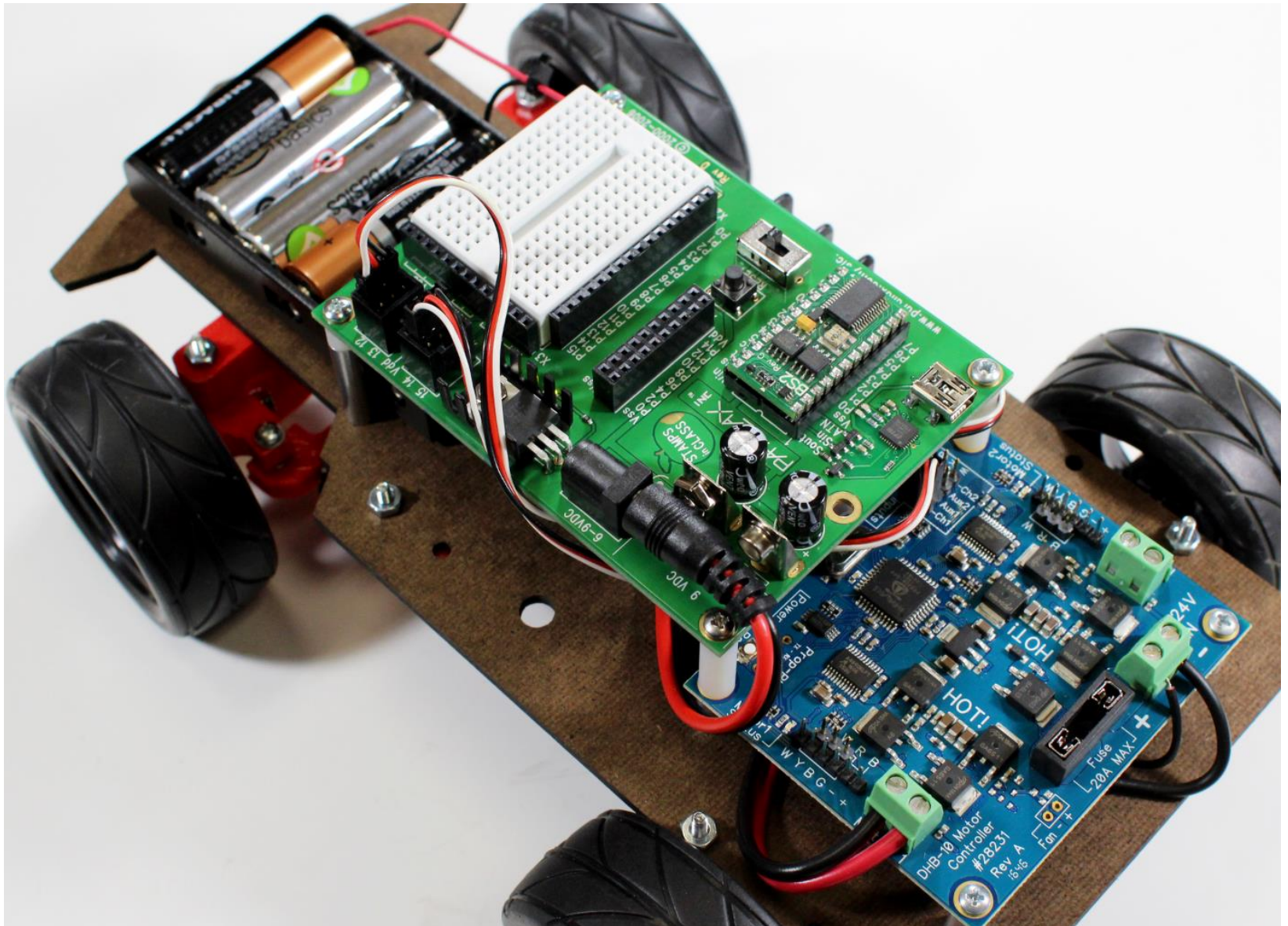


installing electrical system



wear safety glasses



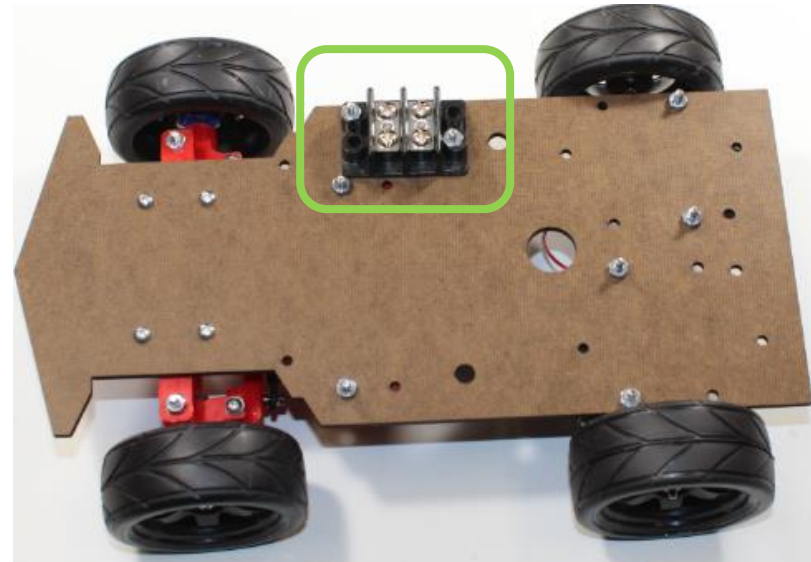
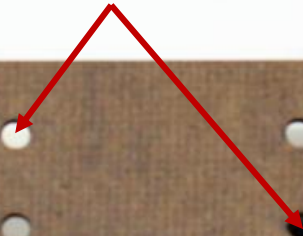
install terminal block



parts:

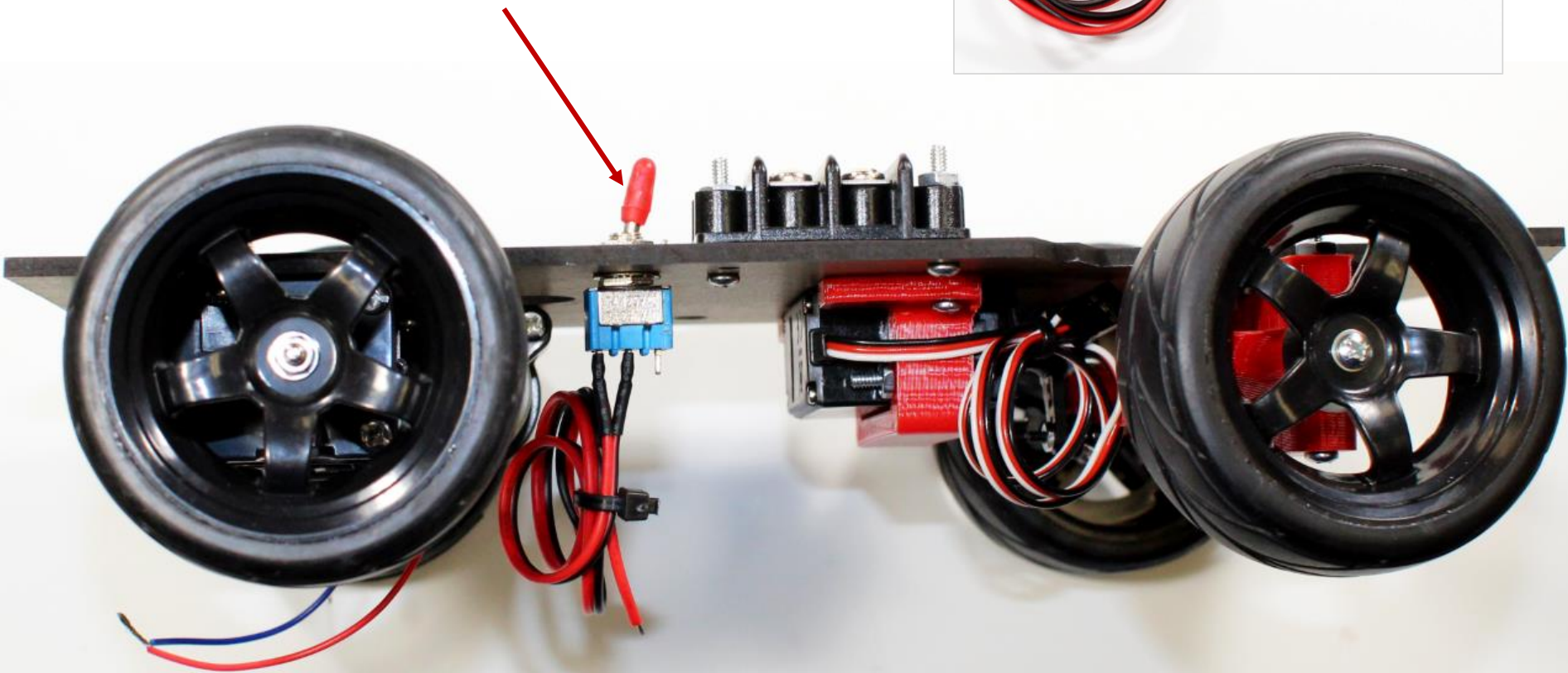
- 4-40 screws $\frac{3}{4}$ -in or $\frac{7}{8}$ -in long (2)
- 4-40 nuts (2)

install screws here

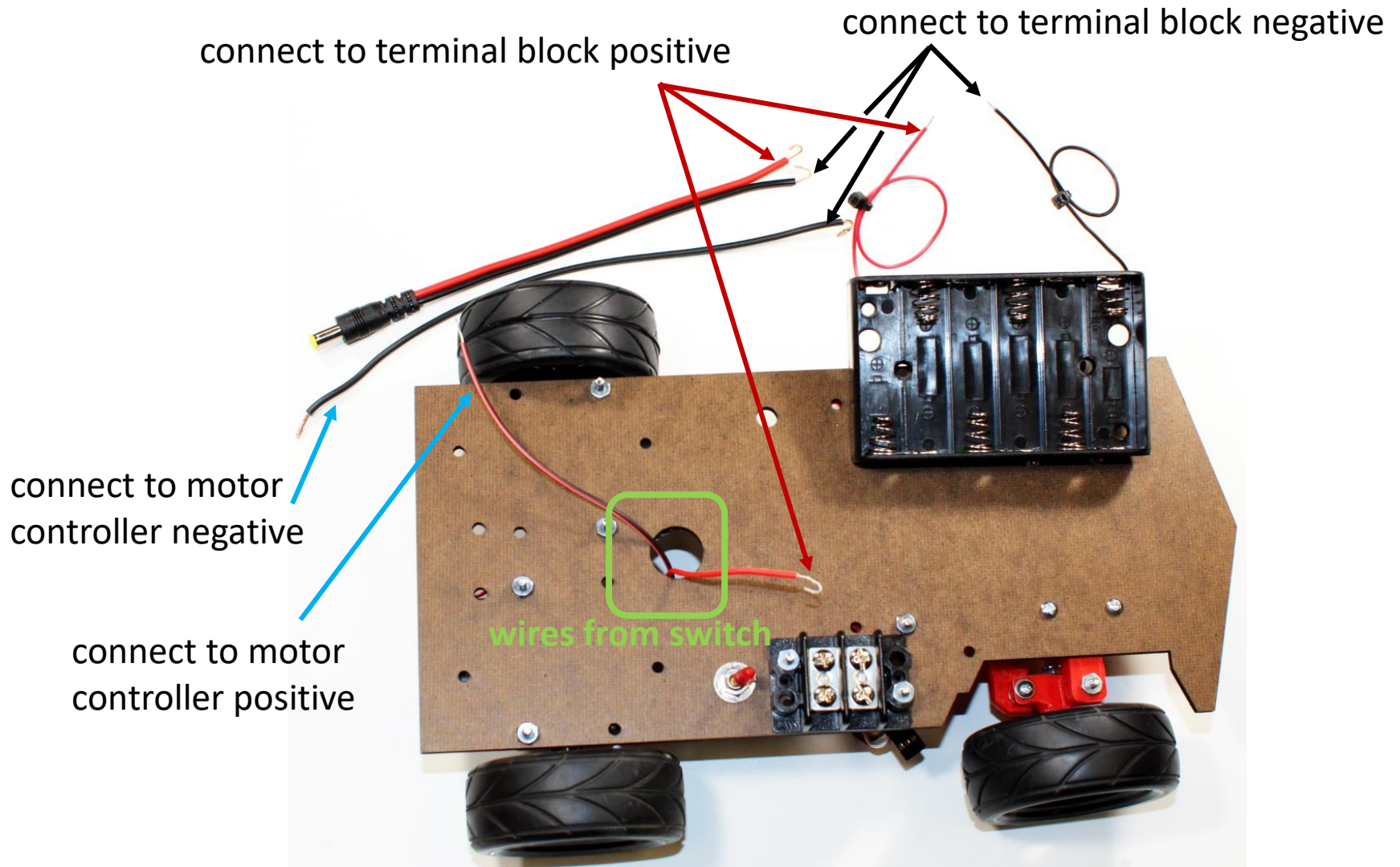


install switch

TIP: It's better to install the switch on the bottom of the car so you can turn it on and off when the body is added (opposite of what is shown)

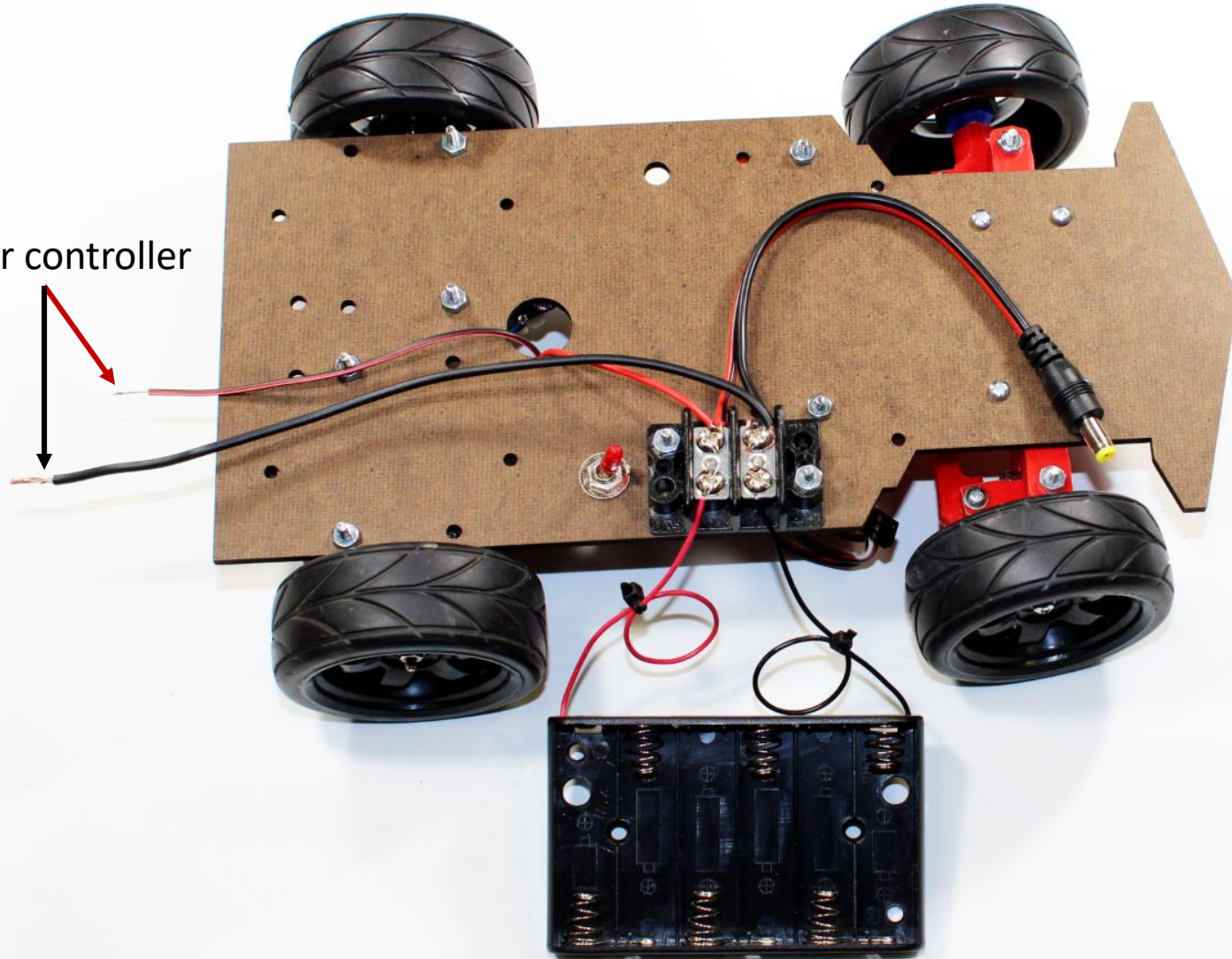


terminal block wiring



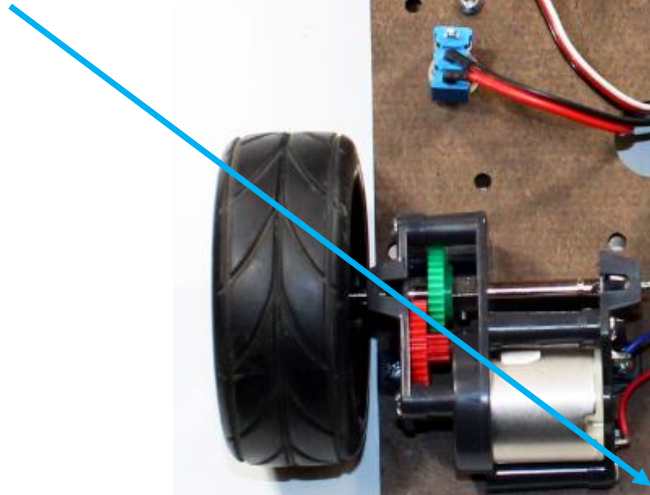
terminal block wiring completed

to motor controller

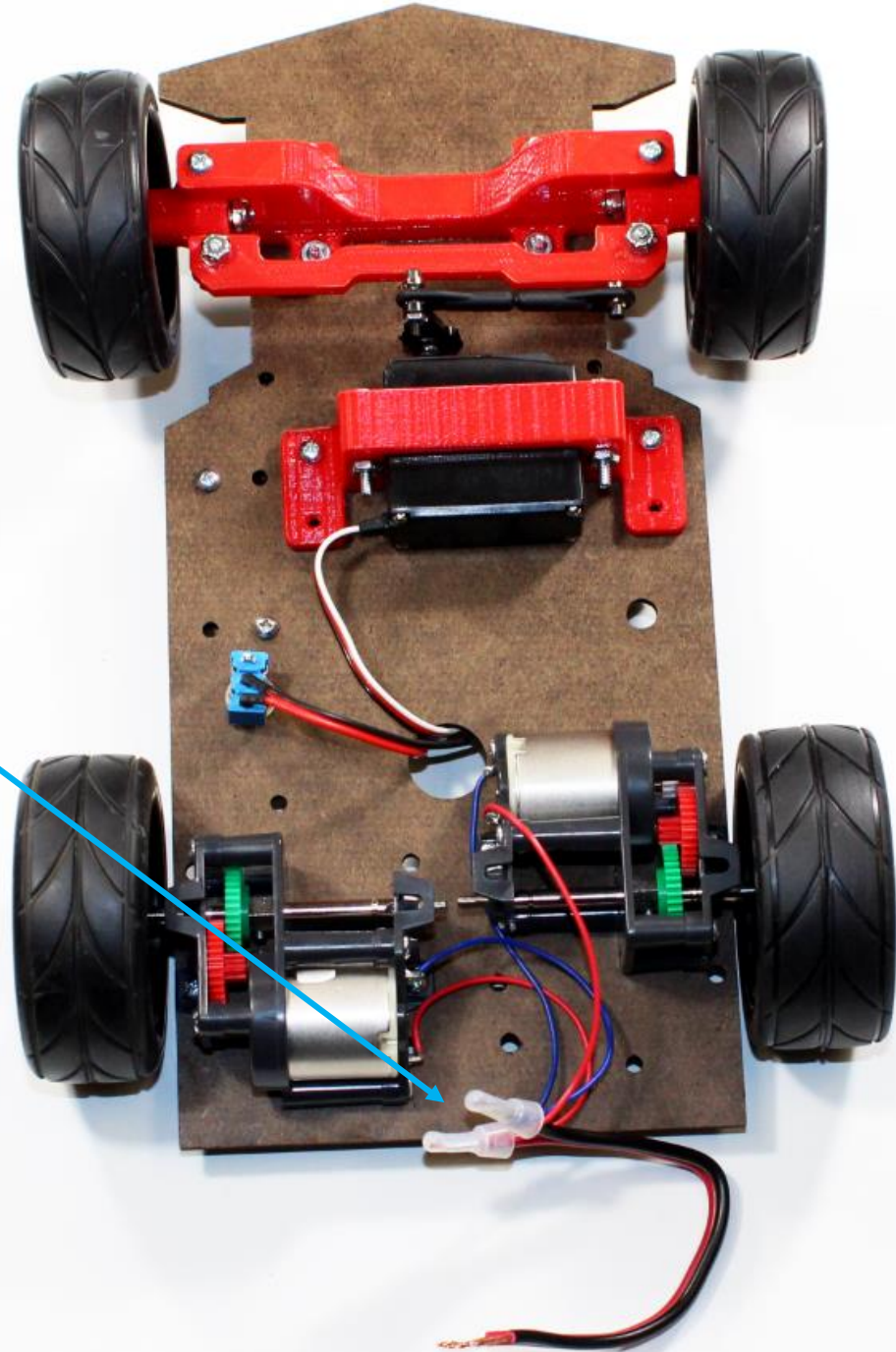


motor wiring

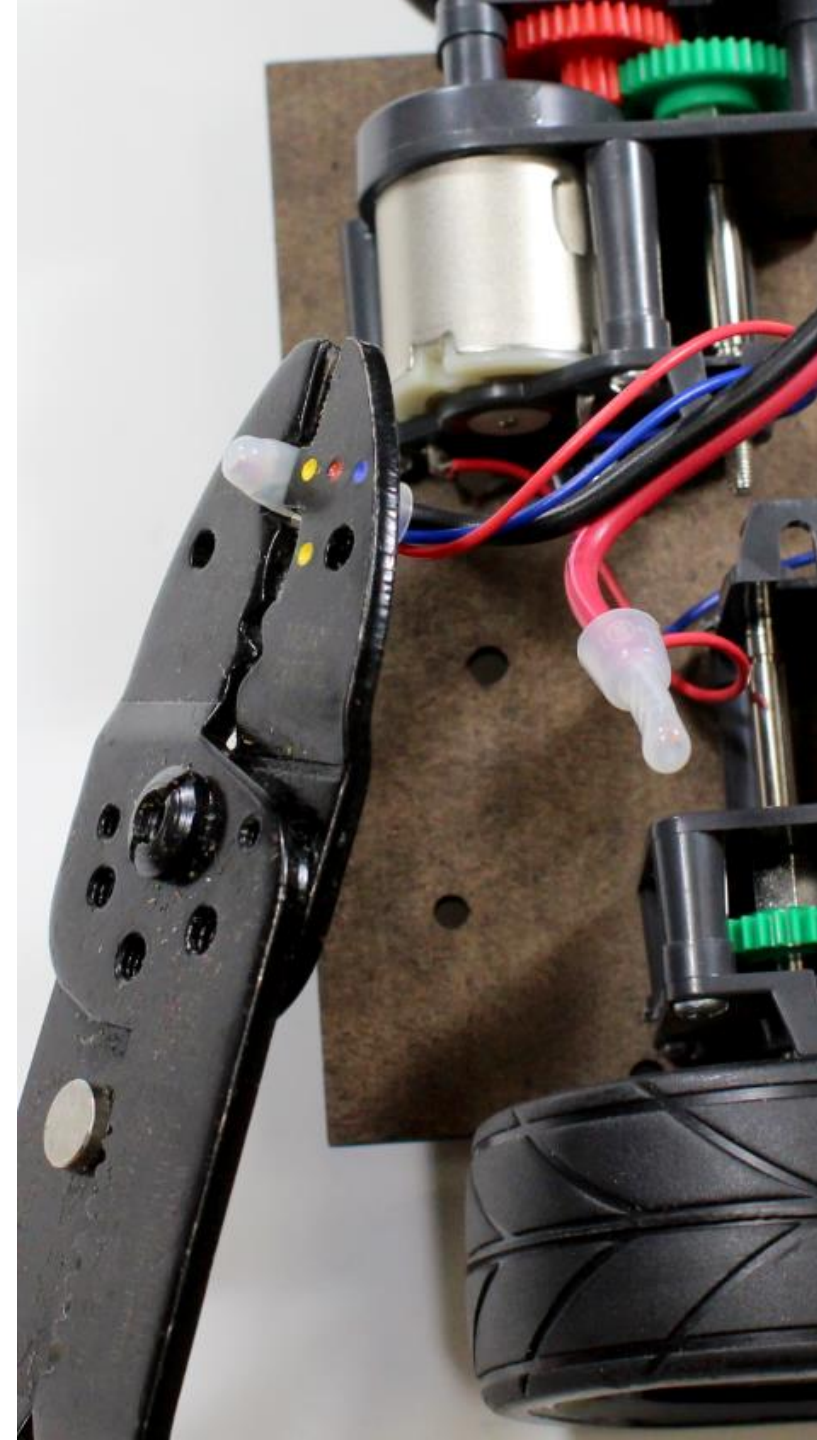
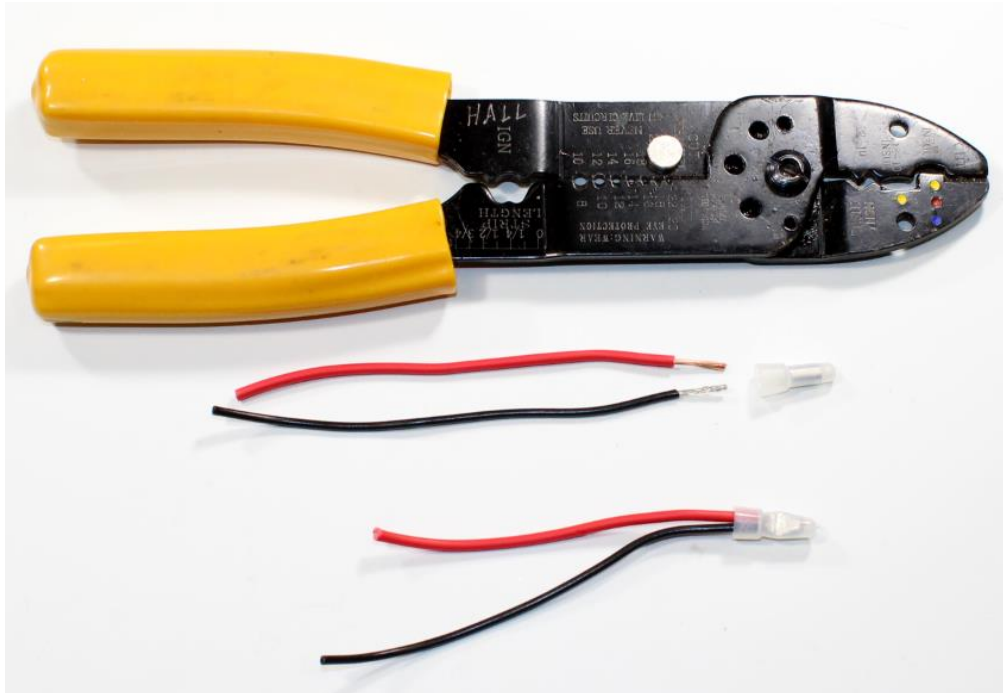
the red wire from one motor is twisted to the blue wire from the other motor (and vice versa)

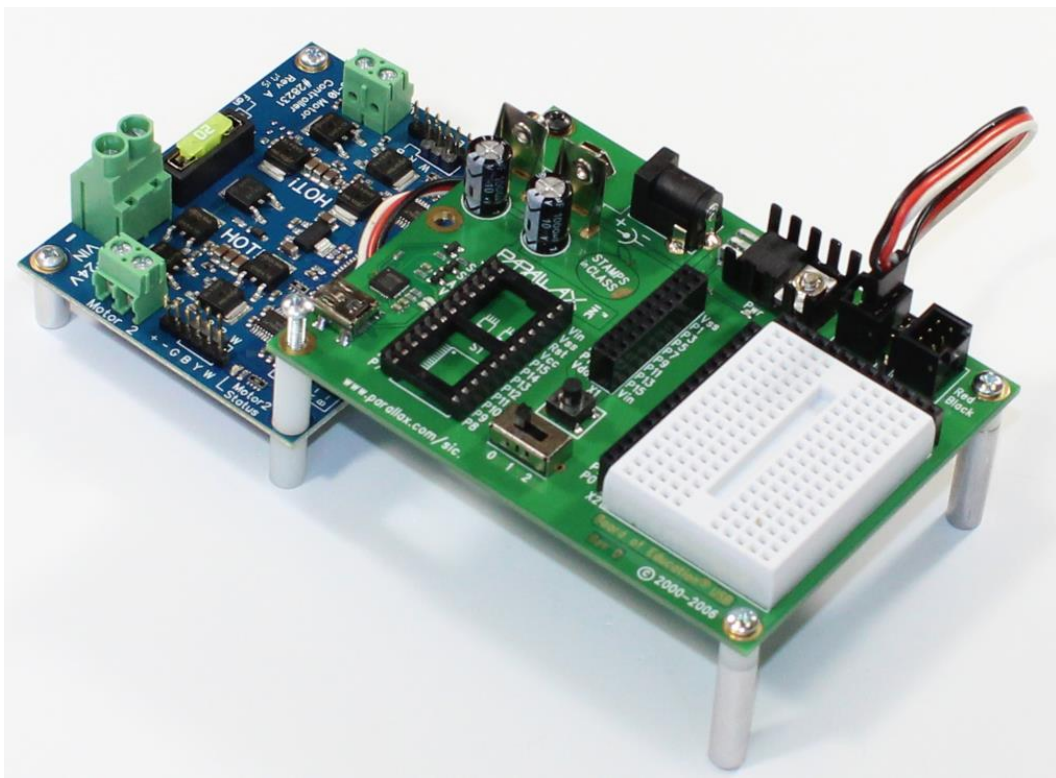


... see next slide for crimping instructions

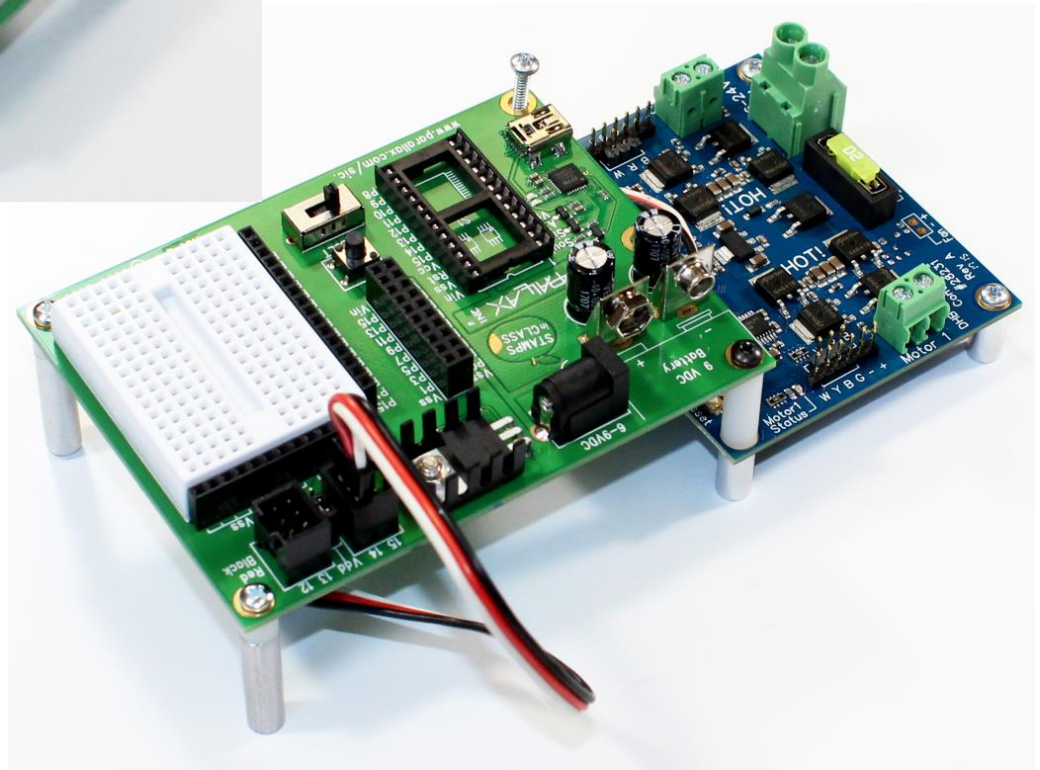


use the crimping tool
to connect the wires

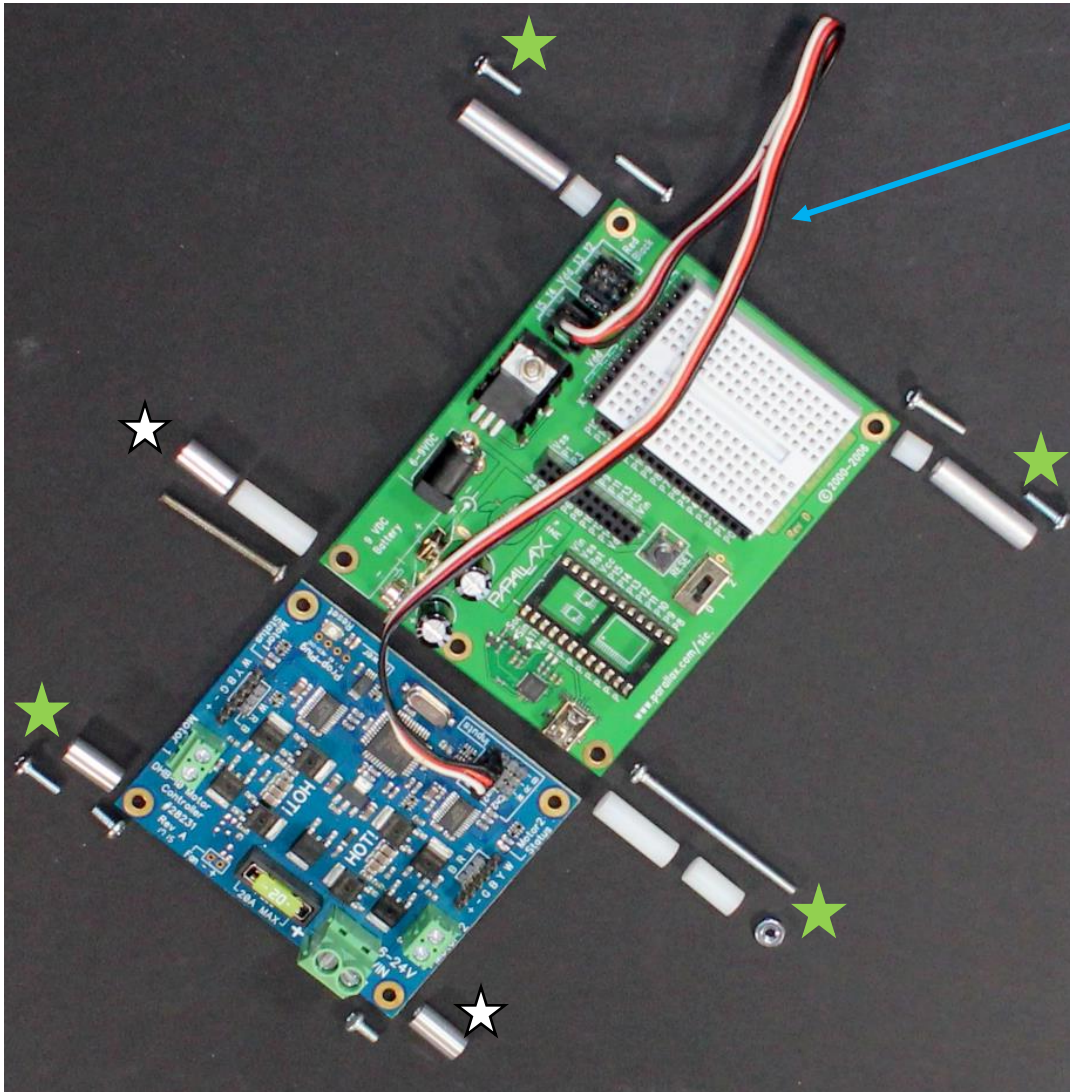




screw positions



circuit board mounting hardware



go ahead and plug in channel 14 on green circuit board to Ch1 on motor driver (note direction of white, red and black)

parts:

- 4-40 screw $\frac{1}{4}$ -in long (2)
- 4-40 screw $\frac{3}{8}$ -in long (3)
- 4-40 screw $\frac{1}{2}$ -in long (2)
- 4-40 screw $1\frac{1}{4}$ -in long (1)
- 4-40 screw $1\frac{3}{4}$ -in long (1)
- 4-40 nuts (1)
- nylon standoffs $\frac{1}{4}$ -in long (2)
- nylon standoffs $\frac{1}{2}$ -in long (1)
- nylon standoffs $\frac{3}{4}$ -in long (2)
- 4-40 aluminum standoffs $\frac{1}{2}$ -in long (3)
- 4-40 aluminum standoff 1-inch long (2)
- Board of Education
- motor controller board

★ passes through bottom of chassis

☆ floats on chassis (not attached)

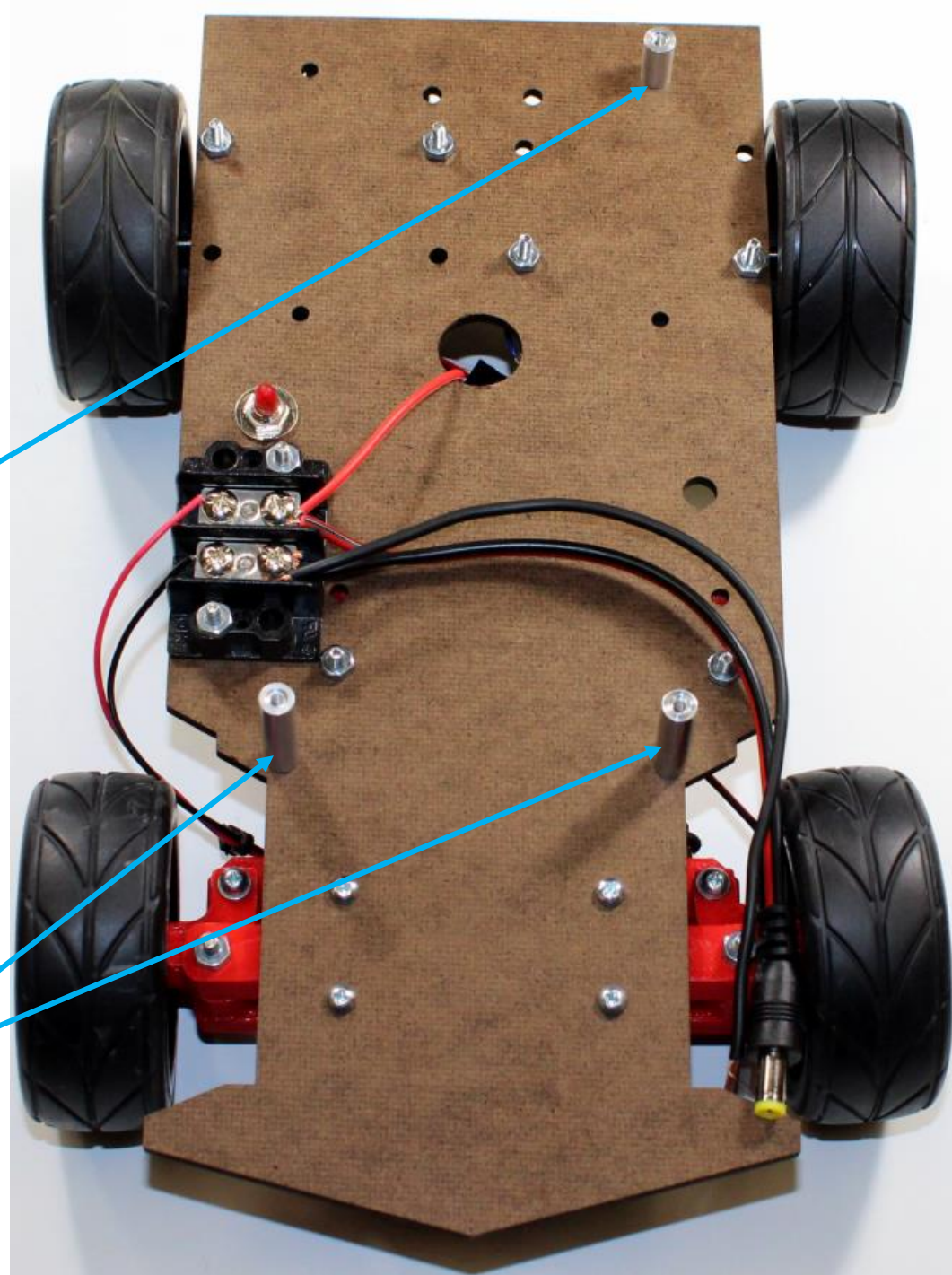
install standoffs

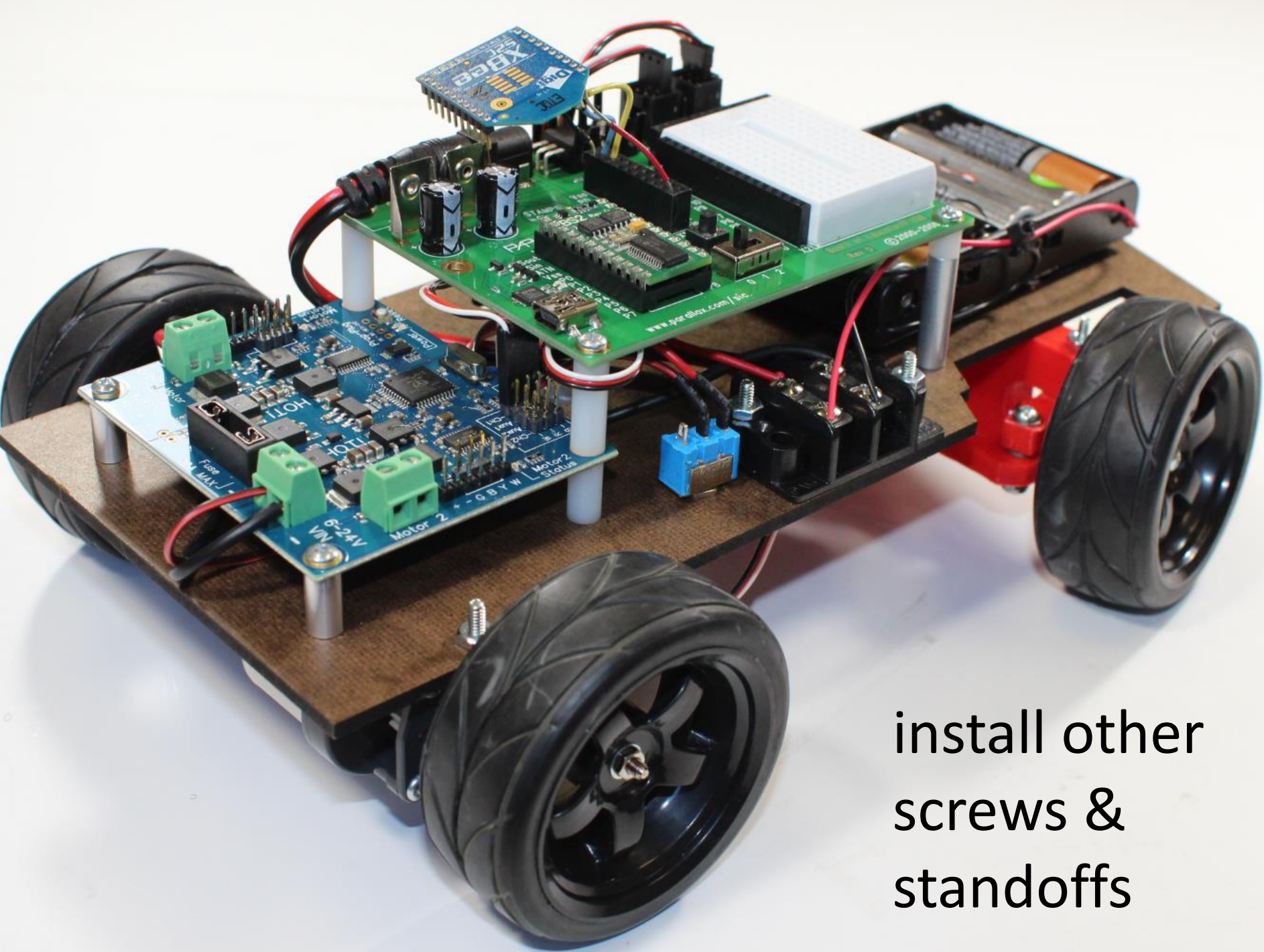
(use 1/2-in 4-40 screws from under chassis)

1/2-in standoff

NOTE: these are the only standoffs attached to the chassis; the other ones are just sitting on the chassis

1-in standoffs



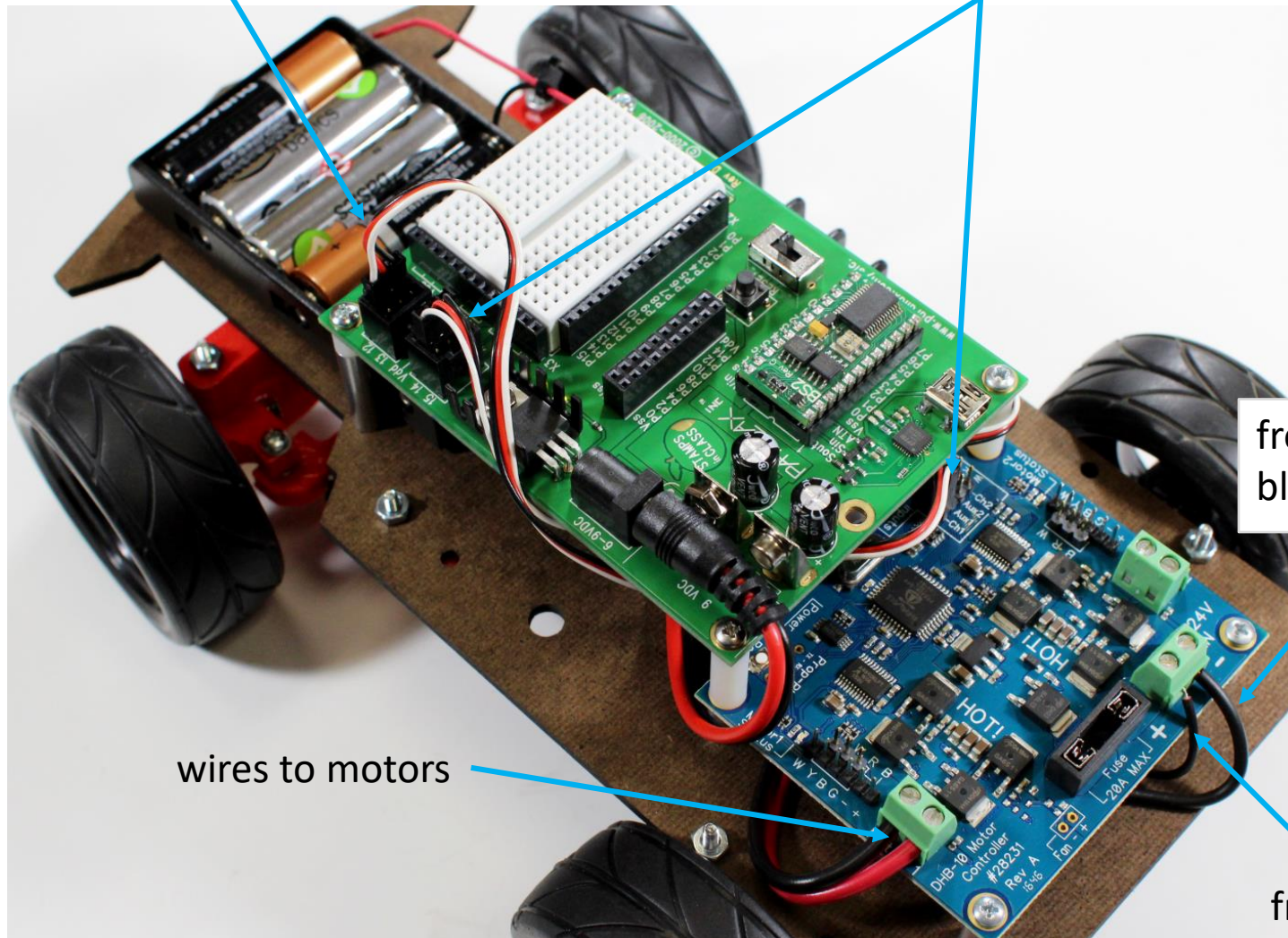


install other
screws &
standoffs

car with servo wires plugged in

white-red-black wire from channel 12 to steering servo

white-red-black wire from channel 14 on green board to Ch1 on motor controller

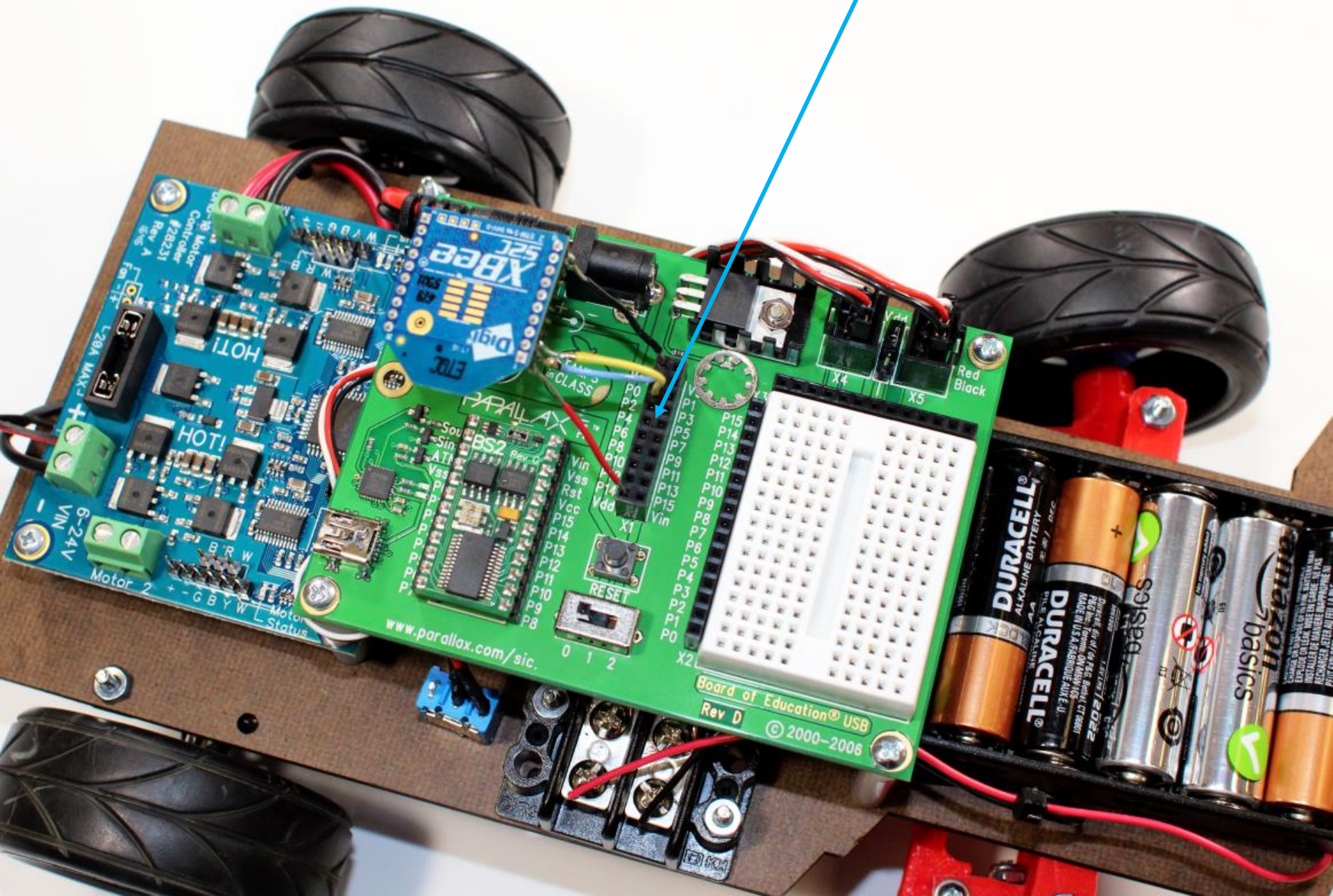


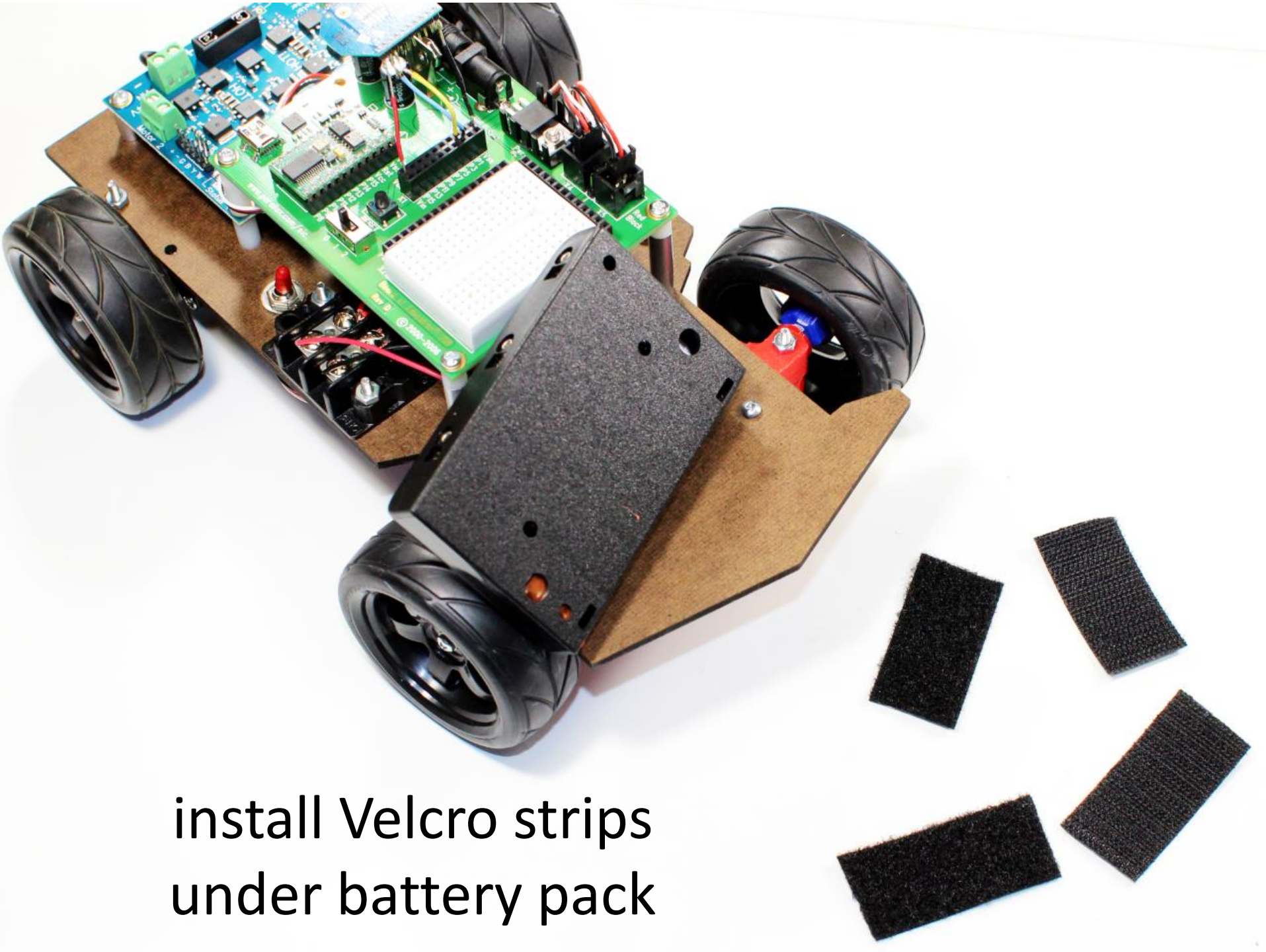
from terminal block negative

wires to motors

from switch

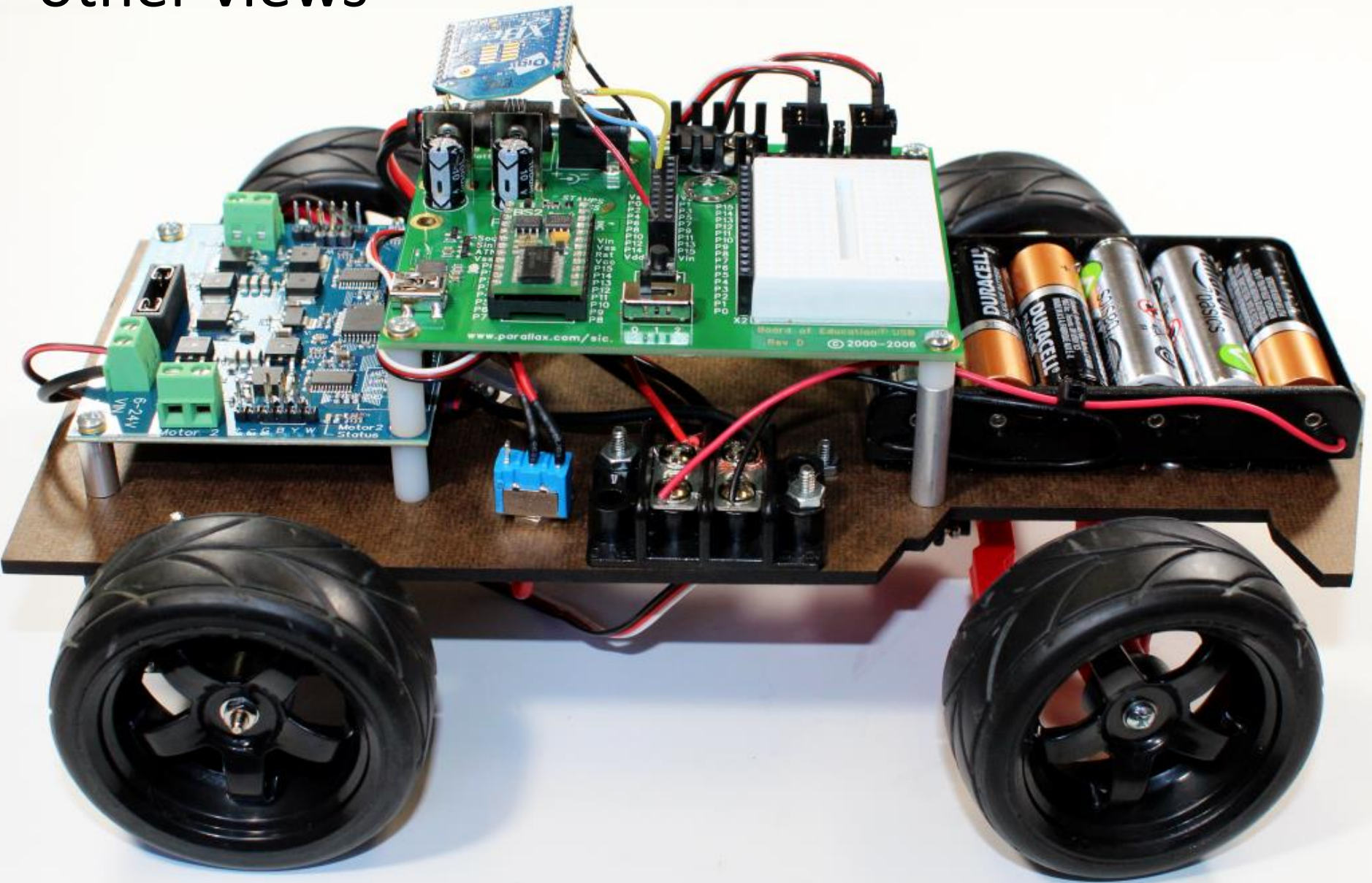
Xbee receiver installed



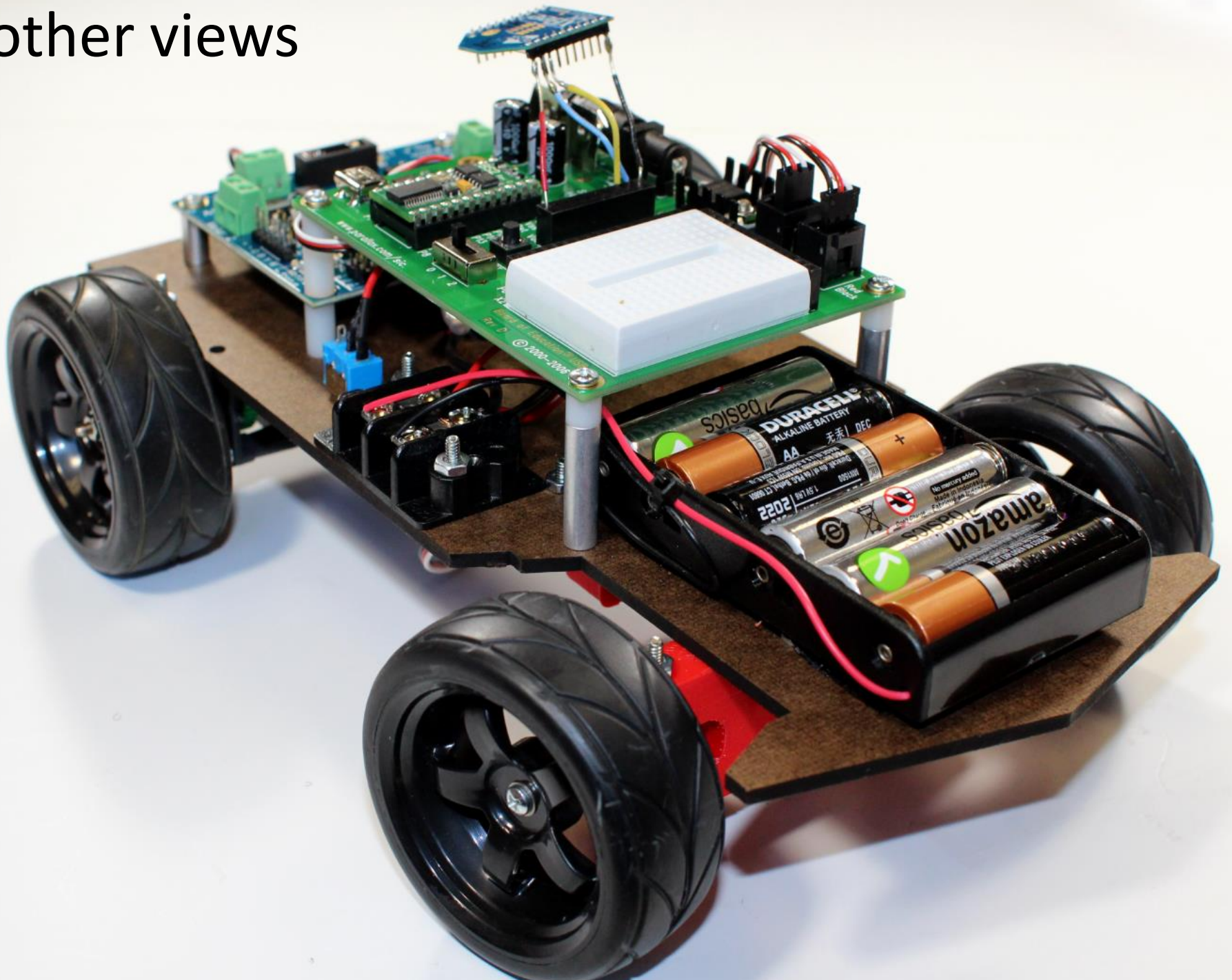


install Velcro strips
under battery pack

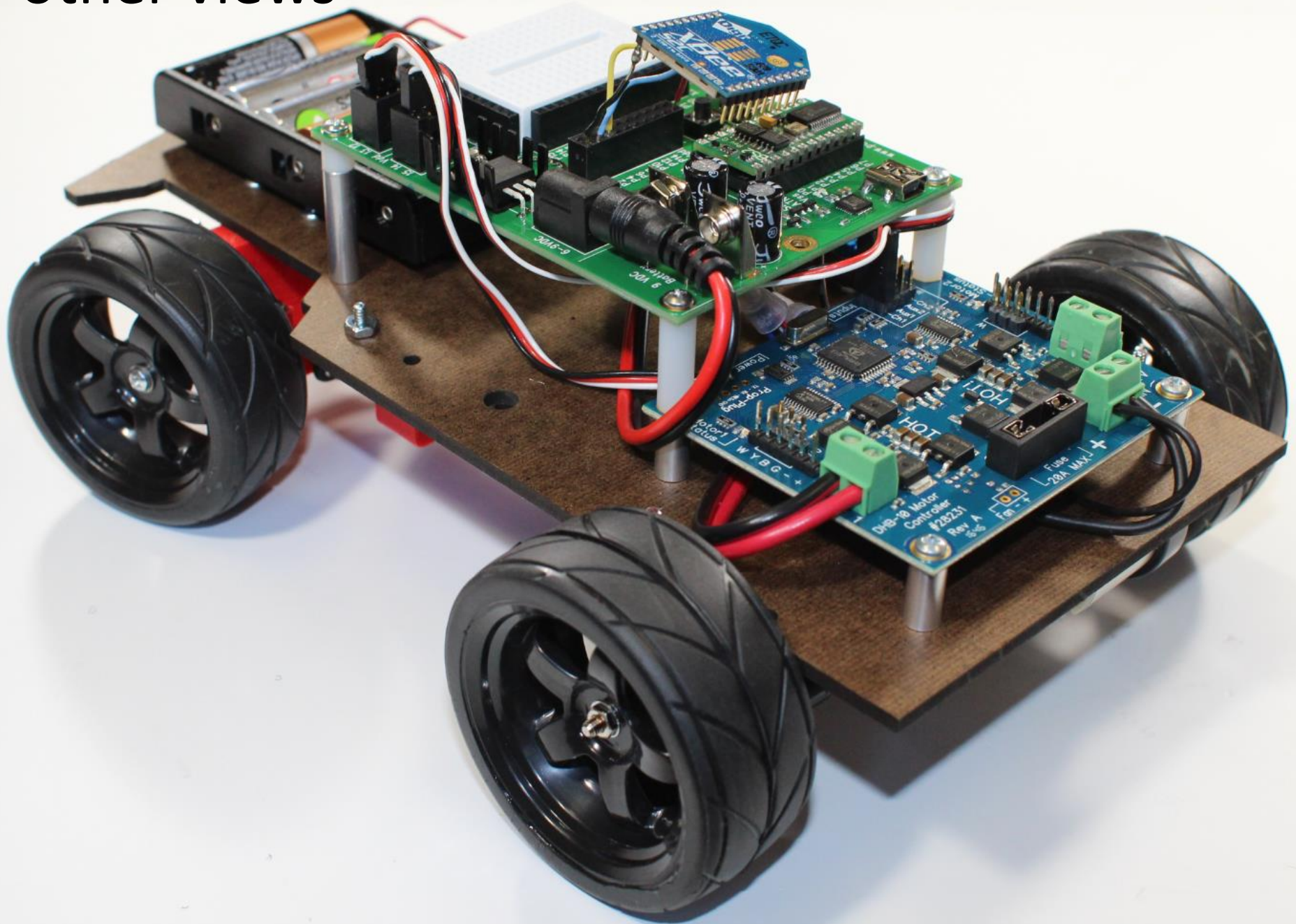
other views



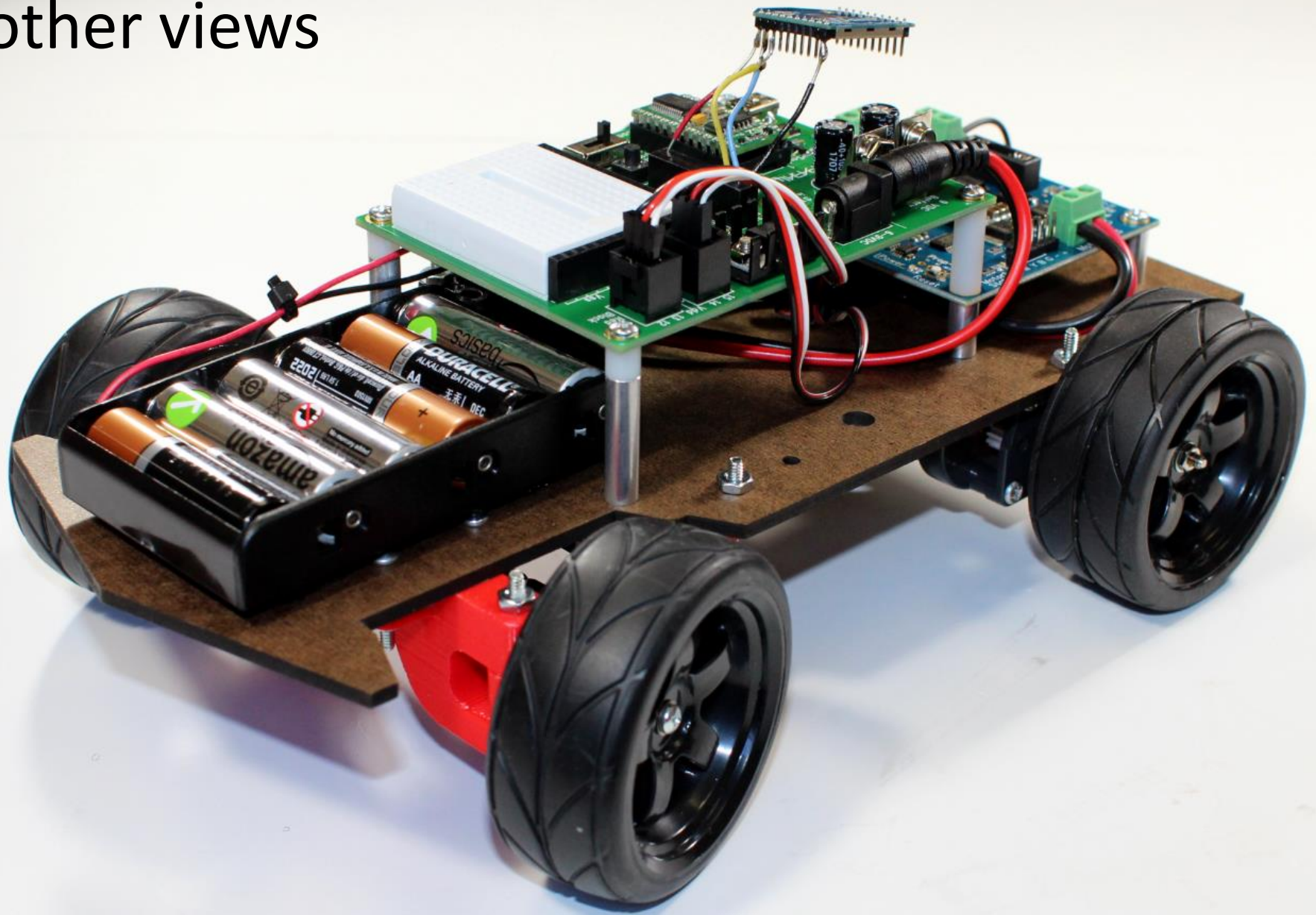
other views



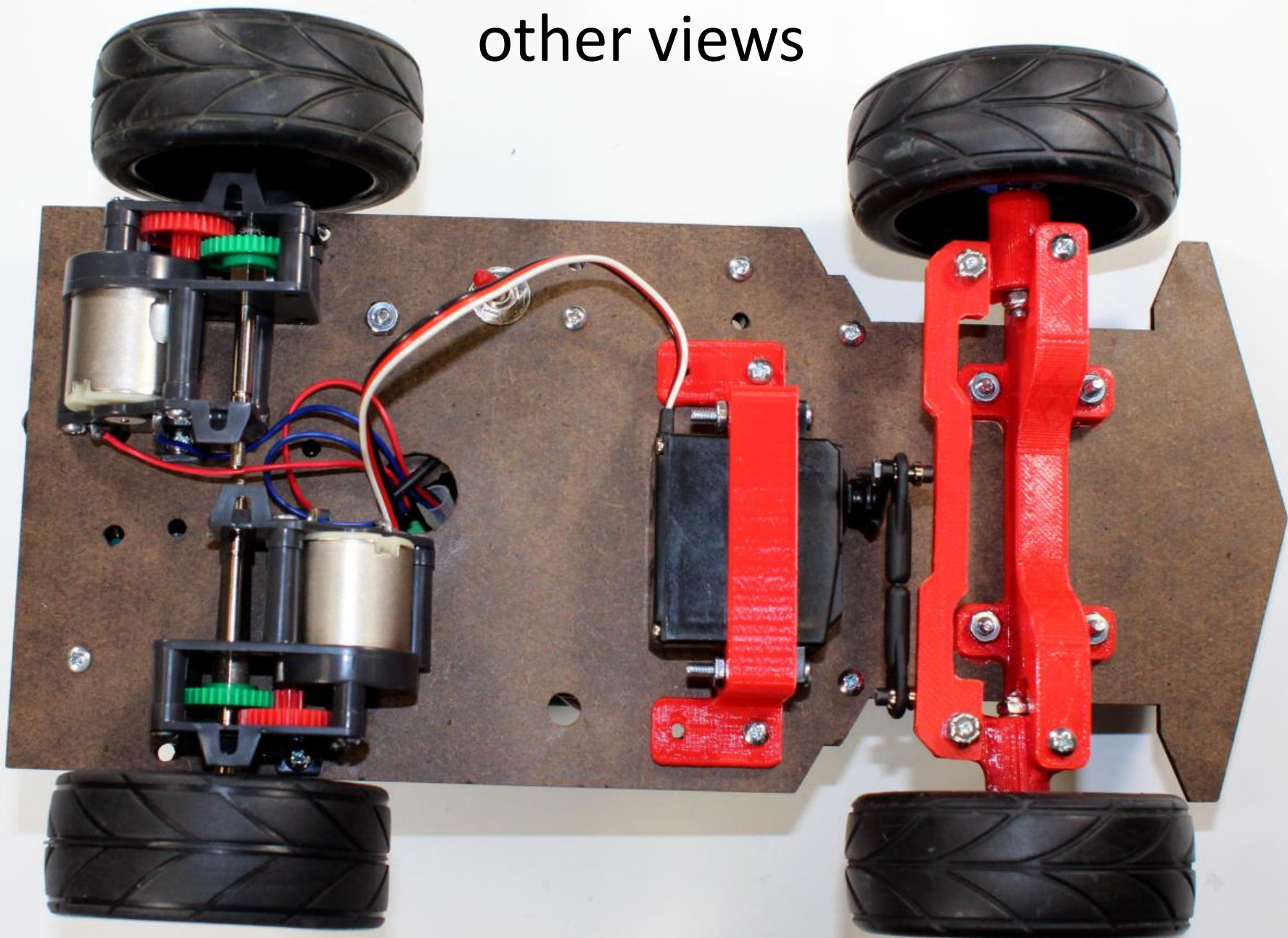
other views

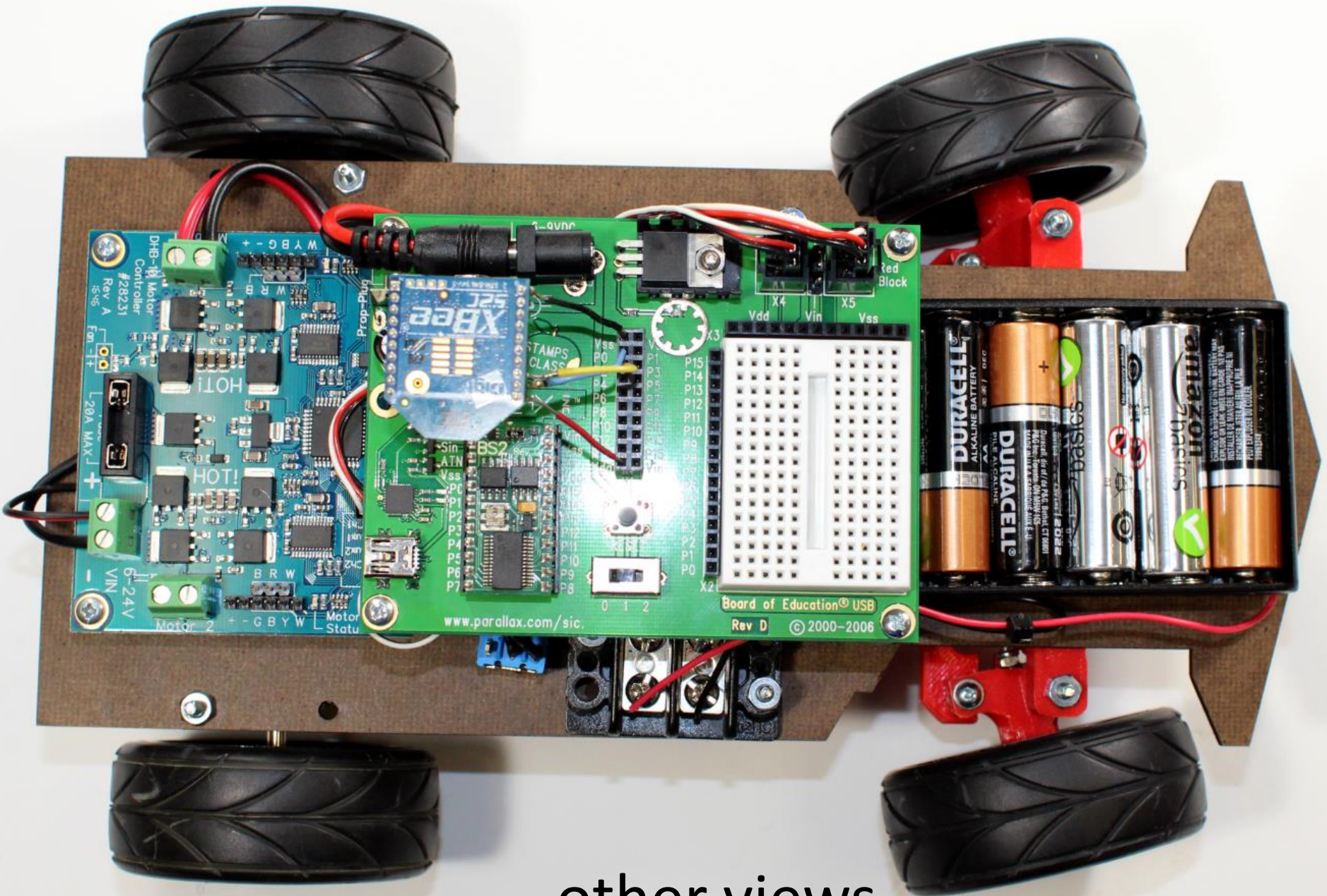


other views



other views





other views