

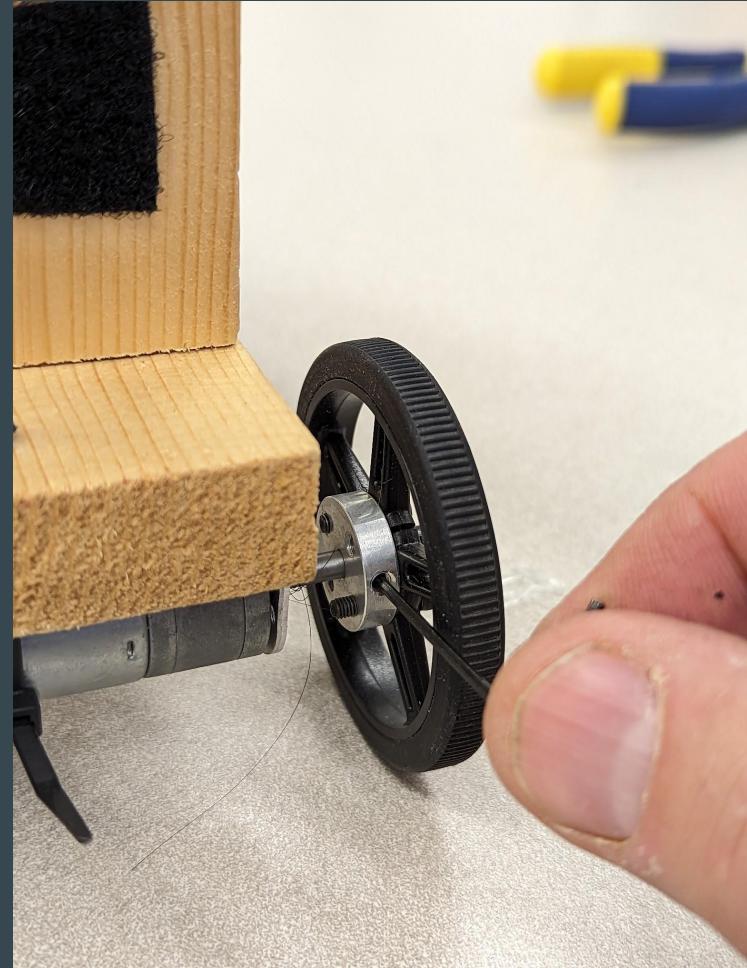
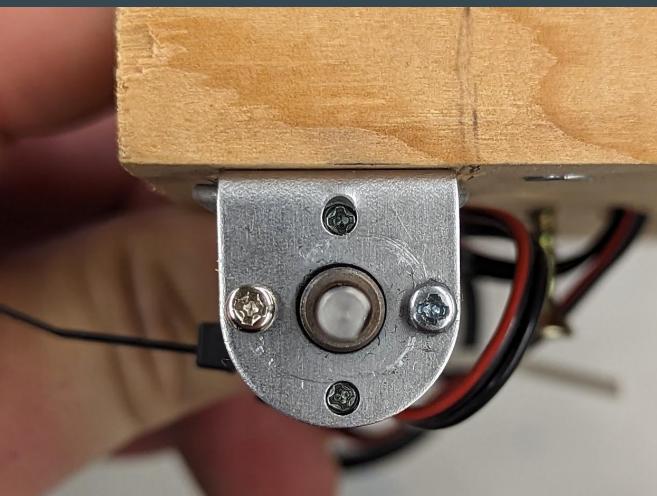
Cart/Pendulum Lower Chassis Assembly

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EGR 345 F23

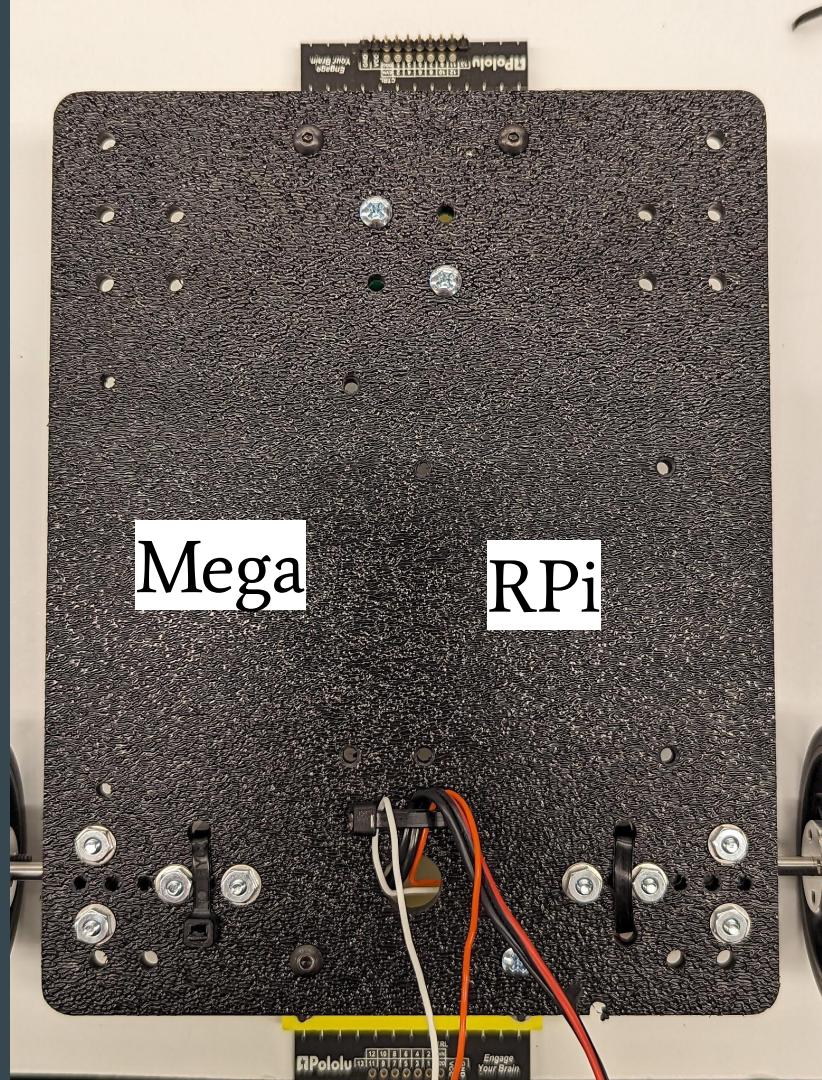
Remove Wheels from Old Chassis

- undo set screw on hub
- do not remove wheel from hub
- motor bracket screws are under the wheel/hub



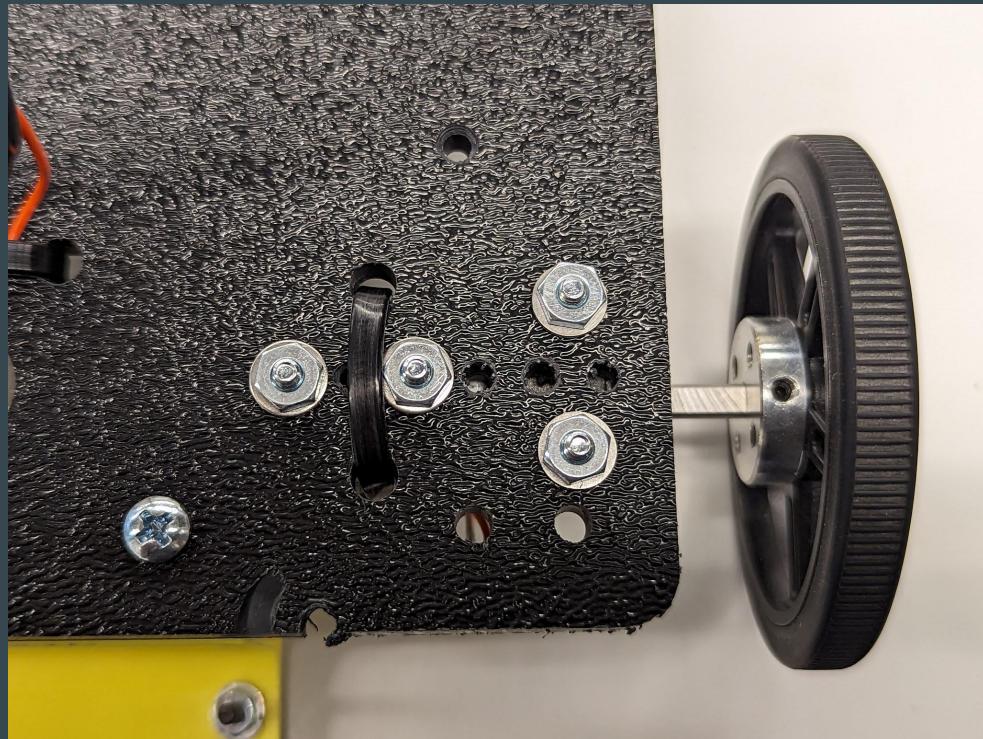
Make sure the chassis bottom is right side up

- If you get this wrong, the Arduino Mega would have to attach upside down, which won't work
- the robot is designed to be rear wheel drive and the Arduino Mega would be in the driver's seat
 - RPi in the passenger's seat
- RPi has perfectly rectangular holes
- Arduino Mega has uneven hole pattern



Attach brackets and motors to new chassis

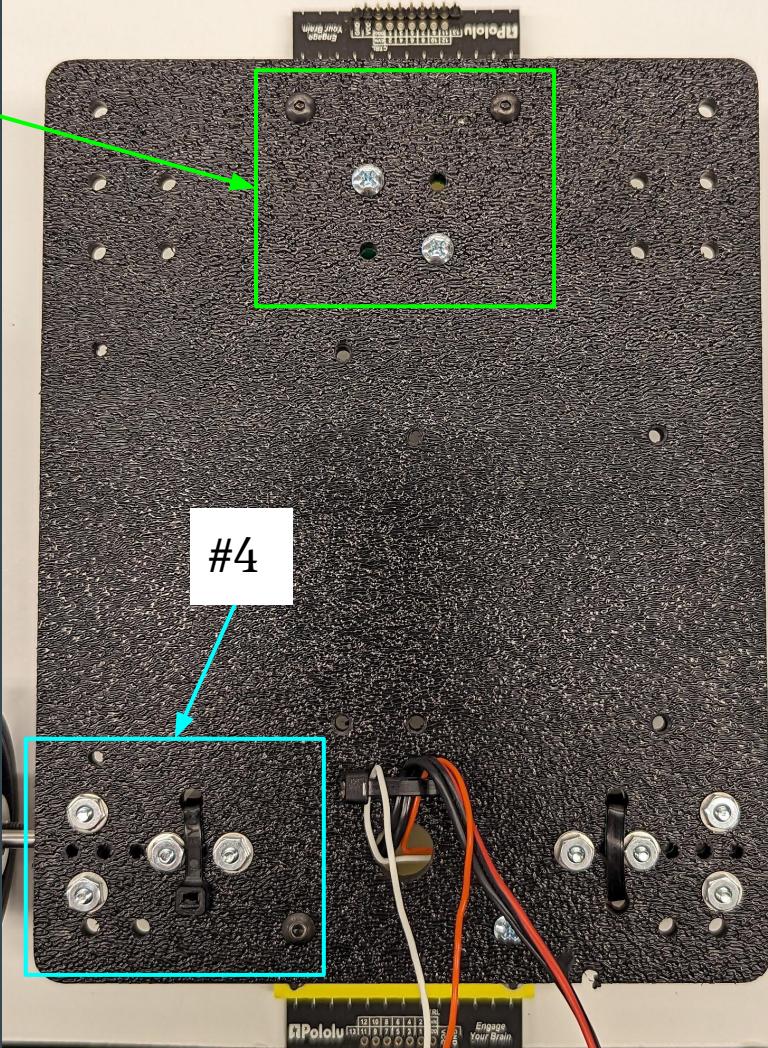
- make sure that each motor bracket is attached with 4 screws as shown
- use #4 machine screws
- also put a zip tie around the motor to keep the bracket from bending



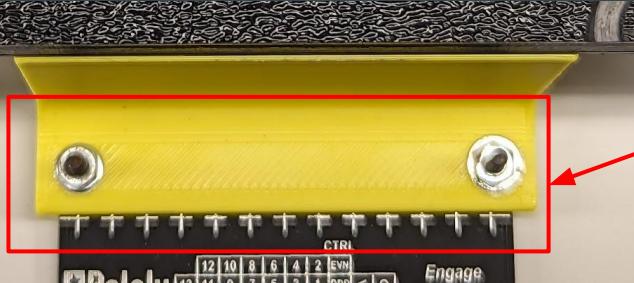
Screw Sizes

- motor brackets use #4
- caster bracket and line sensor bracket use #6
- line sensor to bracket use #2
- **Note:** line sensors should hang out toward the front and back

#6



#2



Motor Wire Zip Tie

- Please use a zip tie to provide strain relief on the motor wires

