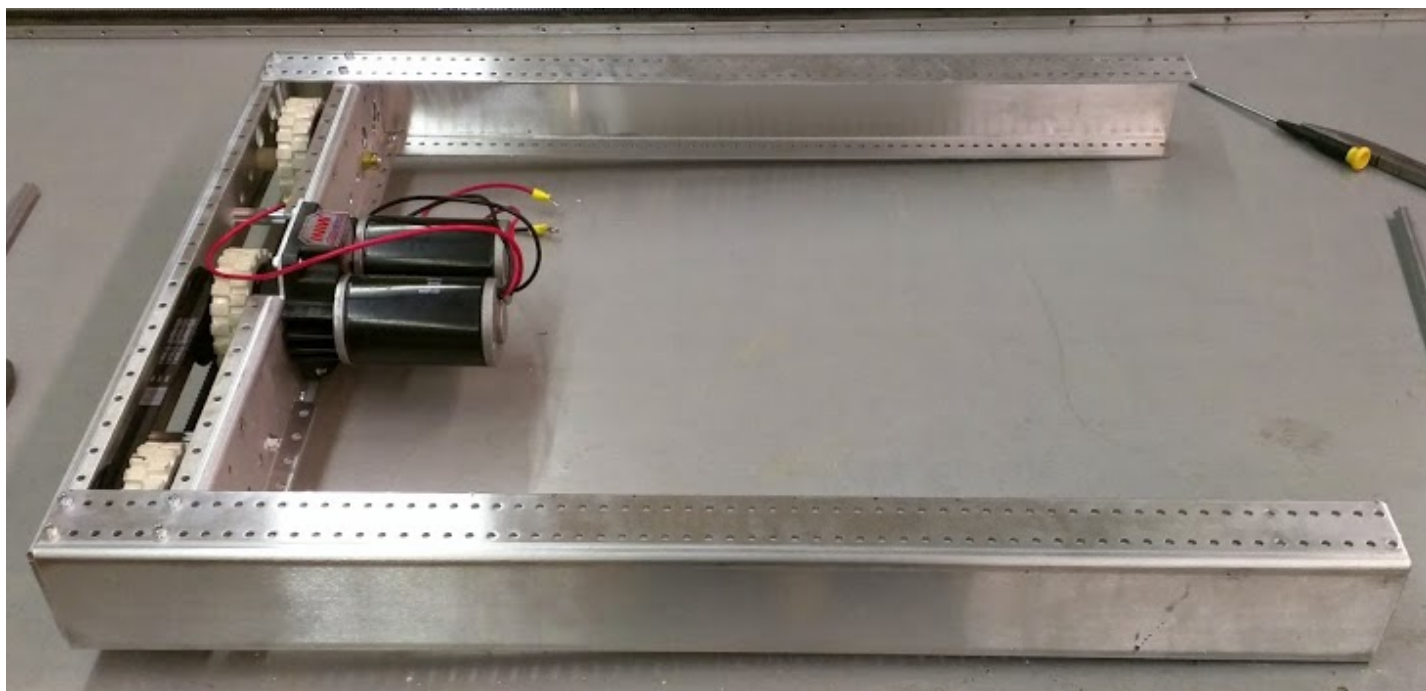


Installing Electrical Board for RQBS

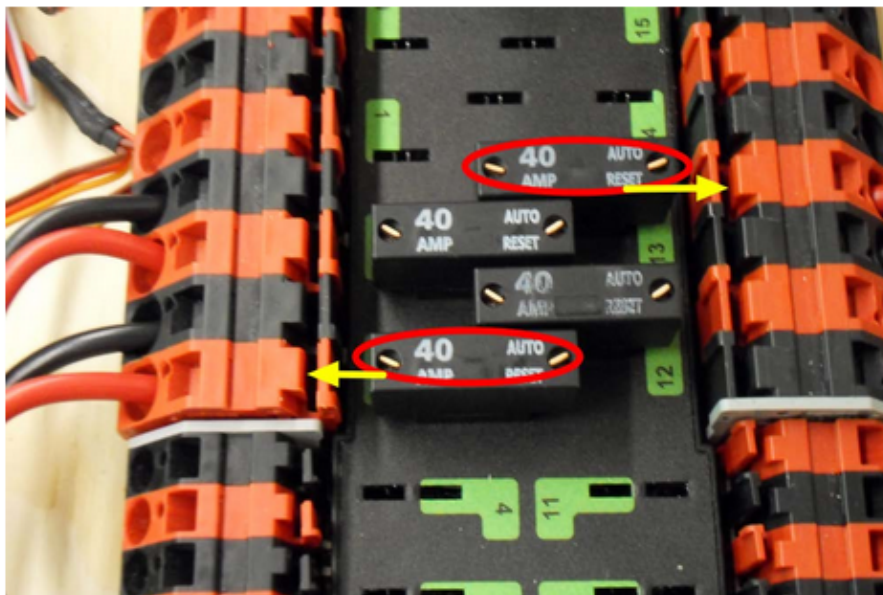
AM14U3 preparation



Begin step 24 of the AM14U3 assembly manual by attaching two end plates to one drive module. This should result in a C shaped assembly as shown above. Do not fully assemble the drive base as this will prevent installation of the electrical board. This and the Electrical board preparation can be completed at the same time.

Electrical board preparation

Circuit Breakers



Requires: 4x 40A circuit breakers

Wiring the 2015 FRC Control System Last Updated: 12/11/2014

Page 22

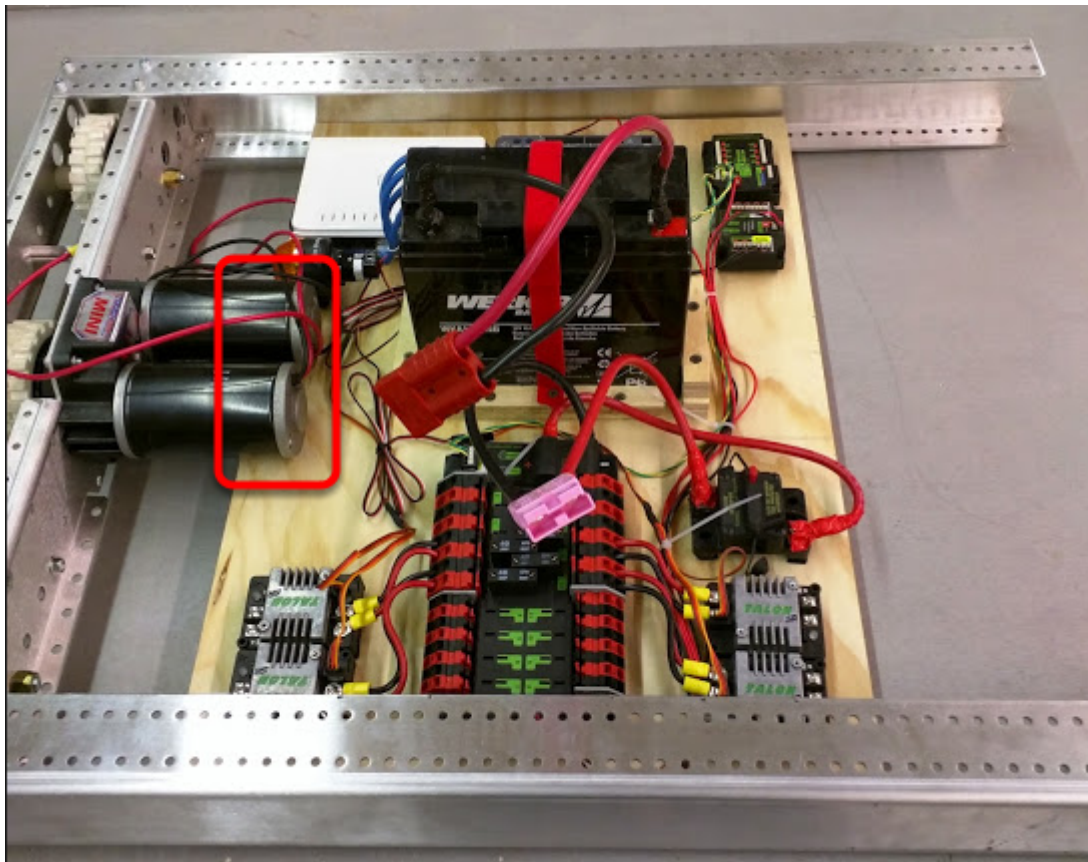
Insert 40-amp Circuit Breakers into the positions on the PDP corresponding with the Wago connectors the Talons are connected. Note that for all breakers 22 / 27 breaker corresponds with the nearest positive (red) terminal (see graphic above). All negative terminals on the board are directly connected internally.



FRC
FIRST Robotics Competition

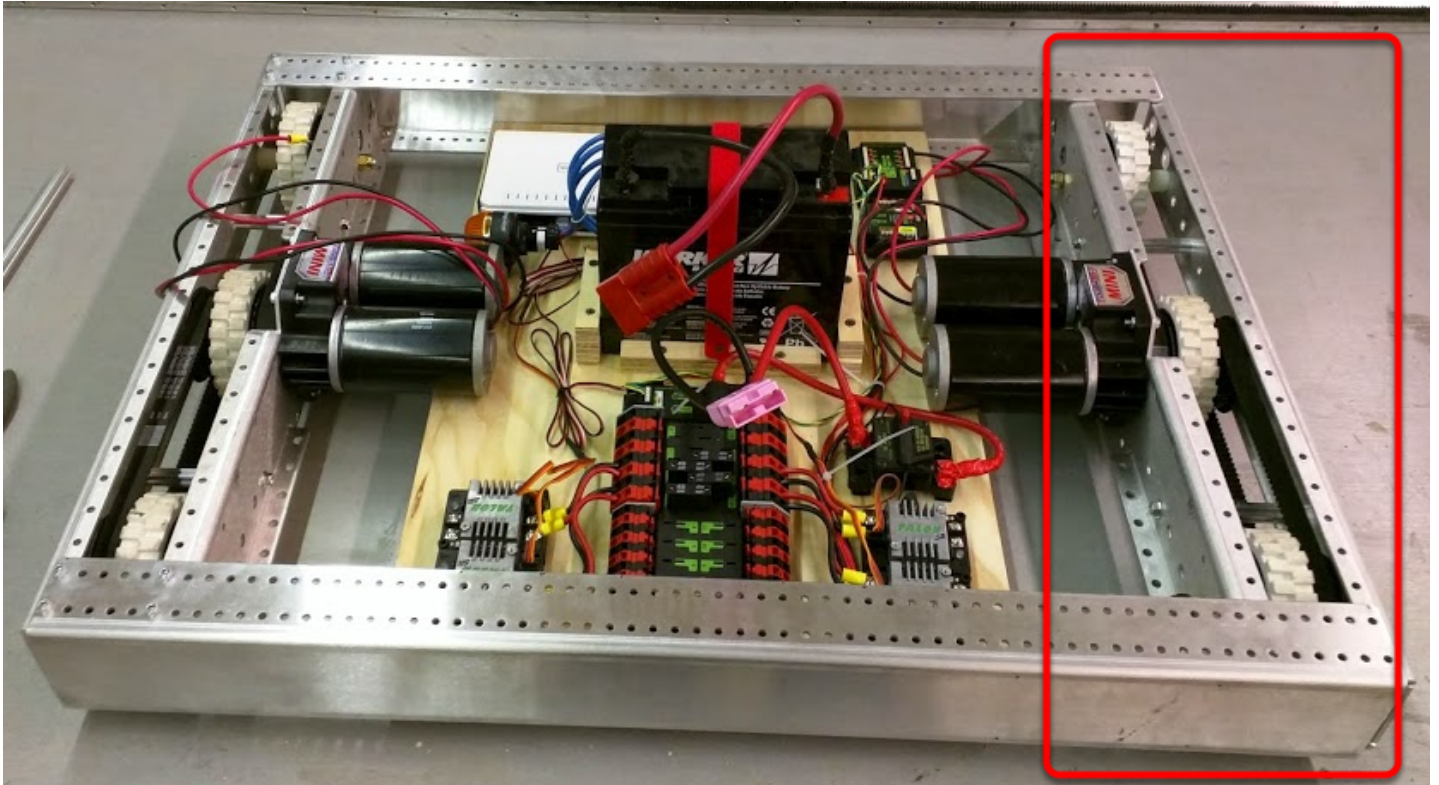
Complete the "Wiring the 2016 FRC Control System" assembly instructions up to and including the circuit breakers step.

Electrical board installation



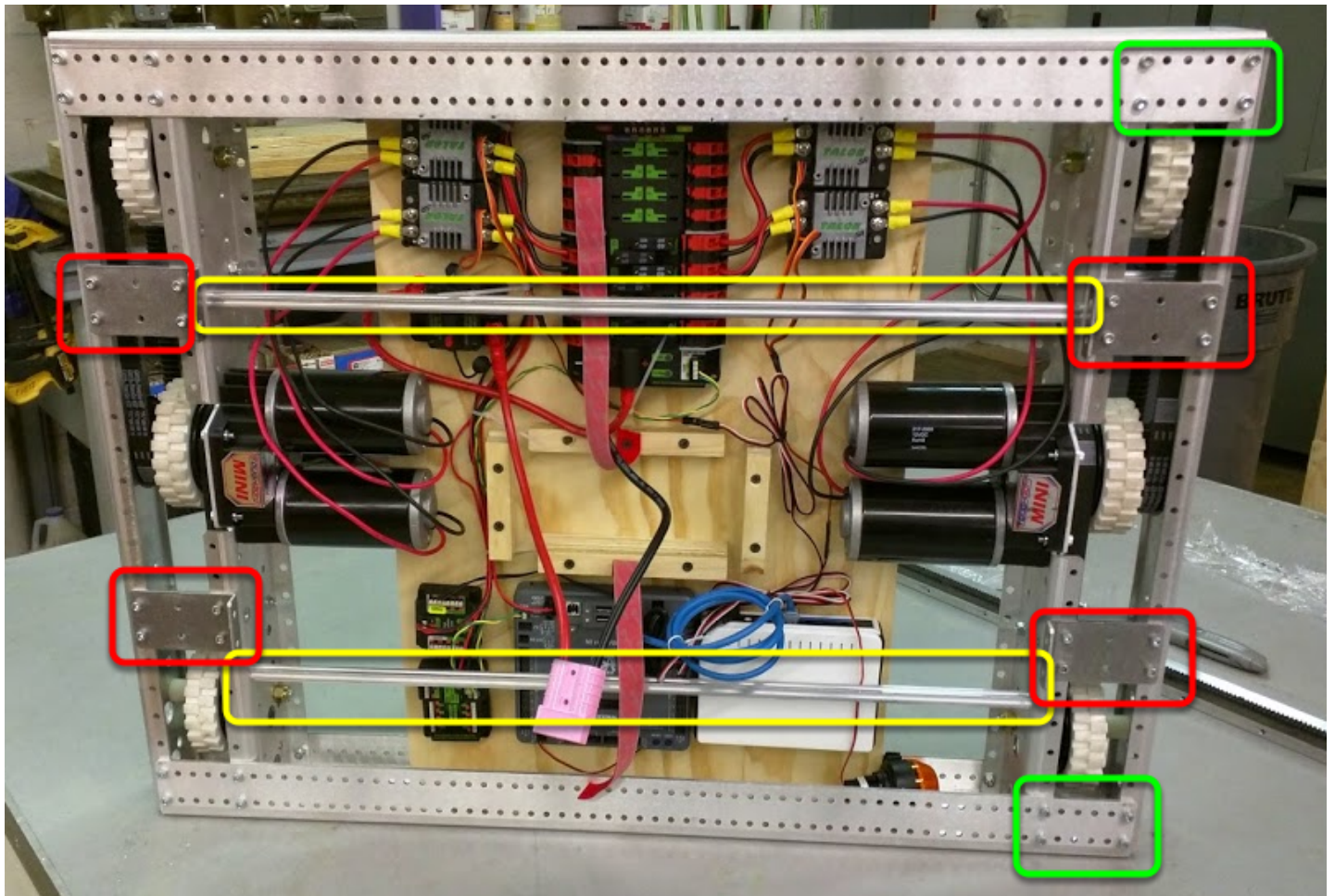
Slide the electrical board into the drive base chassis as shown above. The board should sit under the drive motors.

Second drive module installation



Install the other drive module.

Final AM14U3 assembly



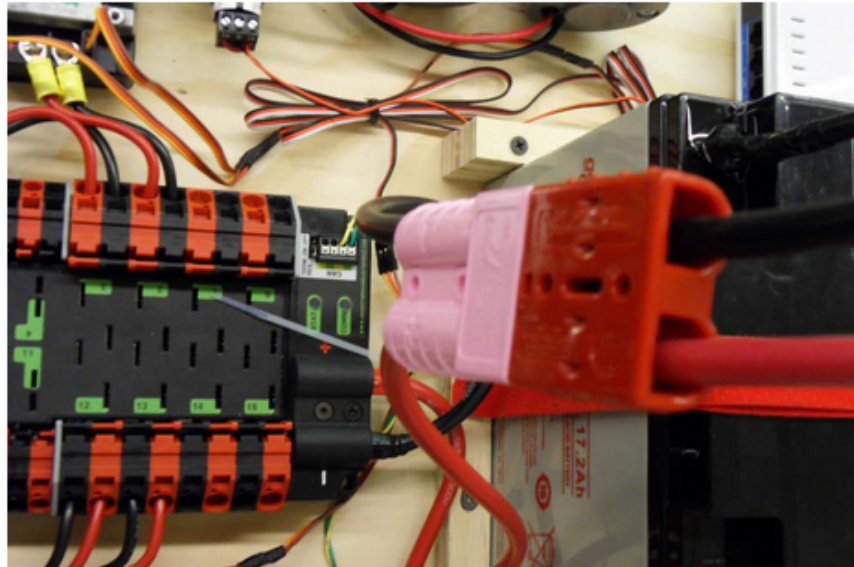
Complete steps 24 and 25 of the AM14U3 assembly guide.

- Secure drive modules (Green)
- Install Churro Tubes (Yellow)
- Install Hole Brackets (Red)

Electrical board wiring



Connect Battery

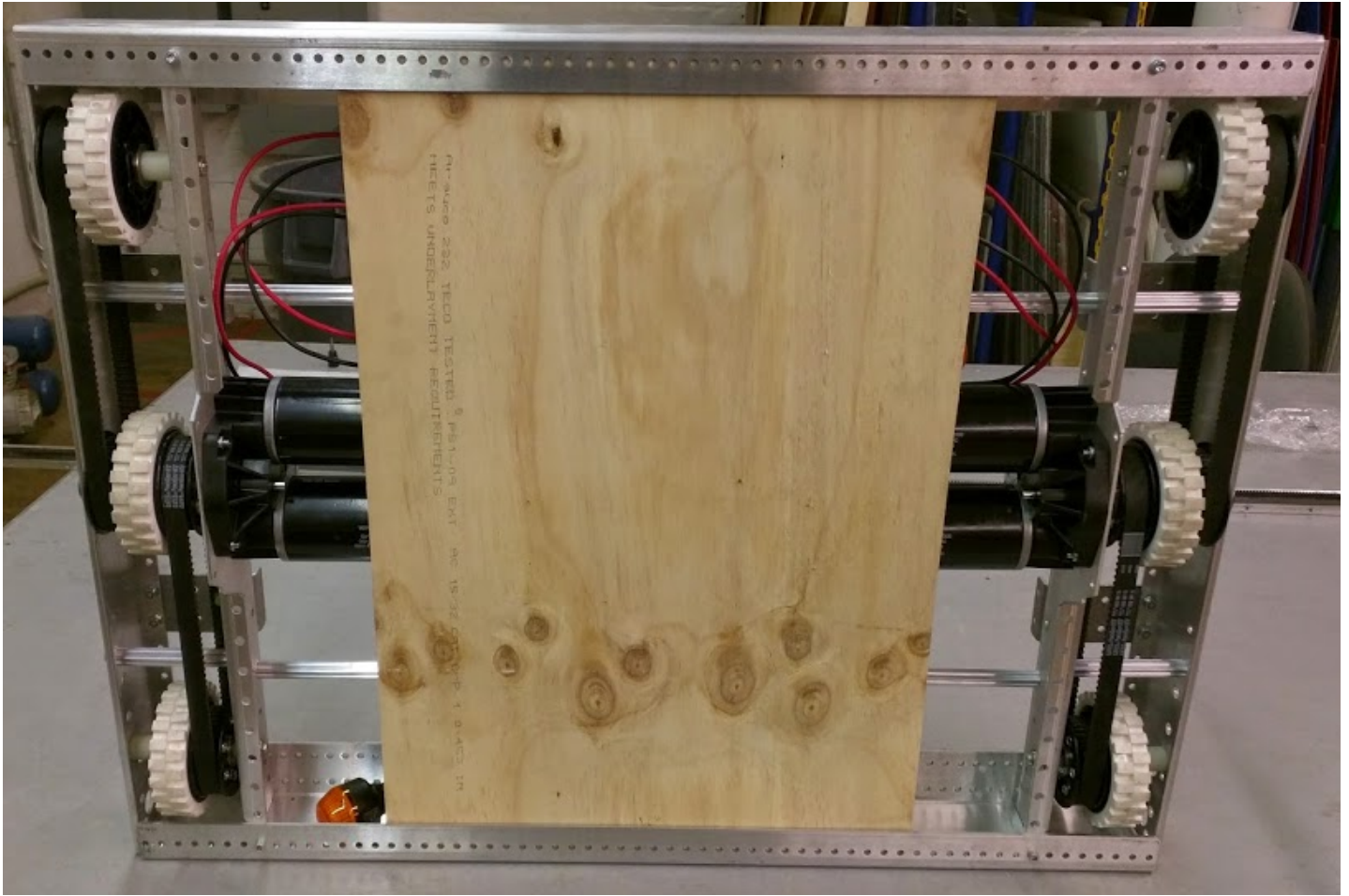


Connect the battery to the robot side of the Andersen connector. Power on the robot by moving the lever on the top of the 120A main breaker into the ridge on the top of the housing.

Complete the remaining steps in the "Wiring the 2016 FRC Control System".

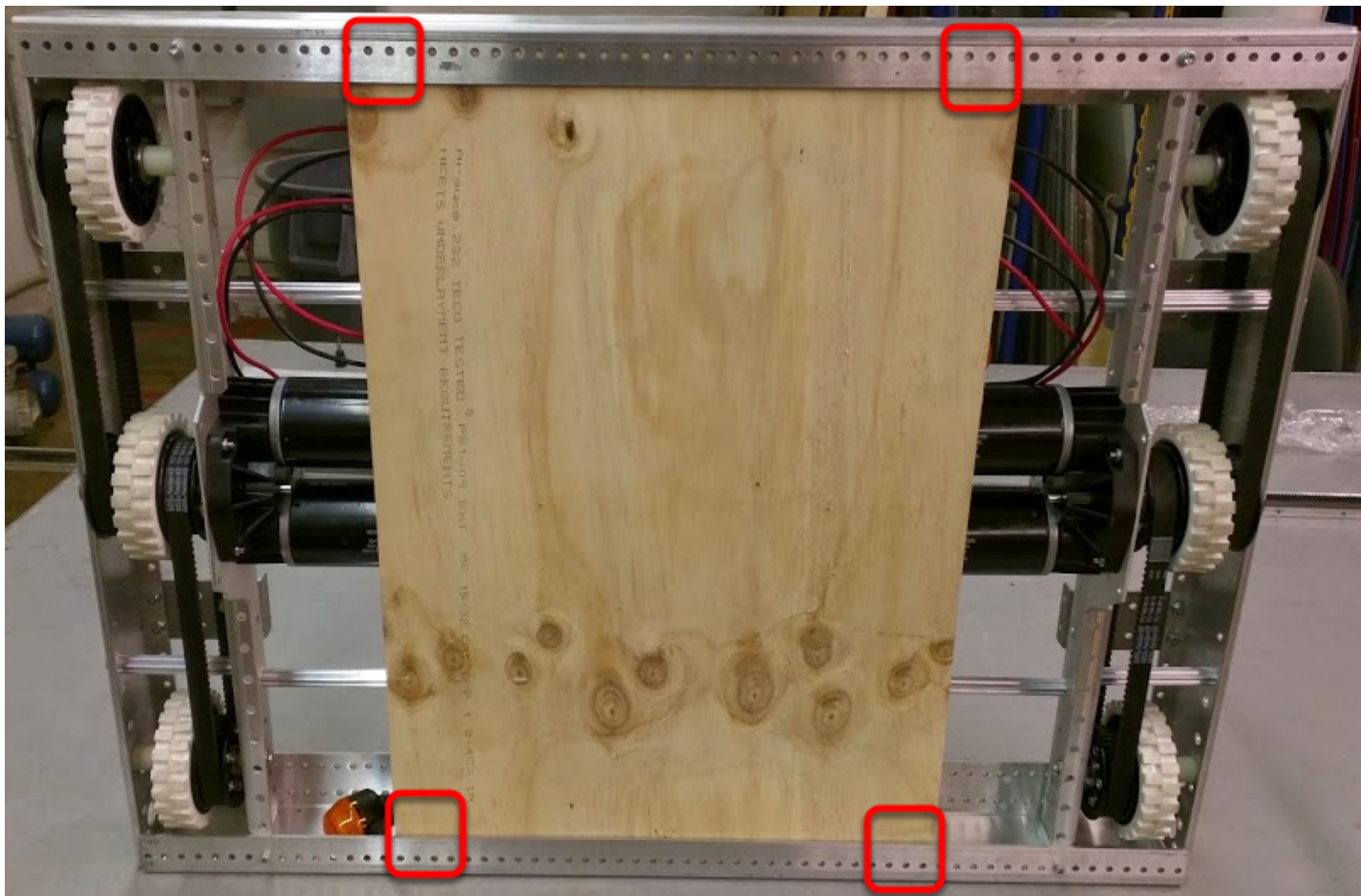
Securing the electrical board

Chassis orientation



Flip the drive base so that the bottom of the electrical board is exposed.

Drilling holes



Requires: drill, 3/16" drill bit

Drill 4 holes in the corners of the electrical board using a 3/16" drill bit and the hole pattern on the end rails as a guide.

Installing fasteners



Requires: (4) 10-32 x 1" pan philips head machine screw, (4) 10-32 nylock nuts (there should be extra in the drive base kit), philips head screw driver, wrench

Insert 4, 10-32 x 1" Philips pan head machine screws from the bottom of the electrical board through both the end rail and the board. Secure them from the top with 4, 10-32 nylock nuts.