

CRIMSON RACING NEWSLETTER

March 2017

Greetings from Crimson Racing!

Spring Break is just around the corner and the car is nearly ready. The team is nearing the end of assembly and should be ready to begin testing soon. Thank you to all of our sponsors for your continued support.

Chassis

Suspension

This year, the team is moving to 10 inch wheels instead of 13 inch wheels, which forced us to completely redesign the uprights. The changes will significantly reduce the weight of the uprights, but require a lot more machining time to complete. Fortunately, the uprights are nearly complete and will be mounted on to the car soon!

Powertrain & Electrical

Engine

The team has spent a lot of time working to increase the compression ratio of the engine. The increase in compression will allow the engine to produce more power. Unfortunately, the engine we are using has some wear and tear due to being an older engine. When we tested the engine with our modifications, it was not at the compression we were expecting. We have since sent it off to US Chrome to get replated. We would like to thank US Chrome for doing the modifications at a discounted price. We look forward to getting our engine back soon!

Intake

The team has made a second restrictor out of carbon fiber. This time, the team used an aluminum mold rather than an ABS plastic mold. The inside of the restrictor has a nice, smooth finish and is significantly lighter than the one used last year. We look forward to mounting it to the intake!

Steering Wheel

A 7-segment display is being added to the steering wheel to serve as a gear indicator. In order to achieve this goal, the team created a small CAN communication board to listen to the ECU and fit inside of the steering wheel. We will hopefully build on this board and do more custom electronics in the steering wheel in future years!

Outreach

Science Olympiad

The University of Alabama hosted the Science Olympiad for the local region. Science Olympiad is a competition that pushes middle school students to get interested in various aspects of science. The team aided in the helicopter events. Students built a rubber band powered helicopter and the helicopter which flew the longest time would win the event. The event was a lot of fun seeing what creative designs middle schoolers could come up with. We look forward to helping with Science Olympiad events in the future.

Pyros Fundraiser

The team partnered with Pyros Fresh Pizza off McFarland Blvd. Pyros allows you to make custom pizzas with their fresh produce. On February 28th, a portion of the profits at Pyros went to the team. We would like to thank Pyros for the help and we look forward to working with them more in the future!



Left: Carbon Fiber Restrictor

Right: Pyros Menu with event in background



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