

which affected the intake's performance. Furthermore, the original intake used a small motor and chain drive, resulting in weak Triball expulsion force, as well as issues with insufficient suction and Triball dropping.

Therefore, the original intake roller are replaced to a 2-inch flex wheel and added a C-channel at the front of the intake to enhance lateral support.

We also improved the method of raising the intake. Previously, we used a modified bearing mount with 3/2 holes sawed off to raise the intake. But this method was crude, not durable enough, and did not allowed for adjusting the intake height. Therefore, we reverted to the original installation method, using two 2x3 C-channels and screws to raise the intake and adjusting the height by changing the thickness of the washers installed above it.

3/2 ELEVATION

Problem 1: The Robot's elevation arm ascended at a particularly slow speed, causing us to spend an additional 6-7 seconds at the end of the match, resulting in missing opportunities to score multiple Triballs in the final phase.

project

designed by:

witnessed by:

date: