

As a team 9210, we as a team got together to decide on what we want to improve in the vex world. We start by talking about past pieces we have made from scrap metal, and other ideas on what we would like to make. One thing that we notice at the competitions that we go to is the change of license plates from red to blue or blue to red. This piece would let the team be able to switch between the two colors as easy as rotating the holder. The team would start by bolting the two opposite colors back to back of each other. Then they would be able to slide them into the holder. The holder was made to fit two plates tightly within the walls but yet not obstruct the view of the numbers. Then once in the place the angle bracket under the holder can be placed anywhere on the robot. Then it is as easy as pulling up to disengage the two pages that lock into the lower bracket and then turn it 180 degrees, and the spring in the middle will then pull the pins back into place holding it on the side.

By making this piece in fusion 360 we as a team has learned the idea of cadding before making. This has saved from cutting more than we need to or making something that never was going to work. It makes the building and manufacturing of pieces for vex easier and faster at building the actual robot.

