

# **Metal Crusaders Engineering Notebook 2021**

Team 5293

January 2021

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# 1 January Workdays

## 1.1 January 23, 2021

Took off climbing arms and removed pins, all for possible future use. Also removed the wench. Took off the old hopper since it needs improvement because the robot needs to be excellent at collecting power cells—especially this year.

Also discovered a way to allow for a new hopper design and keep the back-up camera. We changed the airflow that used to go to the pistons in the climbing arms to the pistons that are for the intake system.

Used cardboard to sketch out dimensions for the new intake which will be made out of Lexan. Decided to use the heat gun to bend the Lexan to form a funnel shape, but if that doesn't work then cutting and drilling pieces of Lexan into place will work, too.