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| **Decomposition Approach:** Functional Sub-systems |
| **Reason for selecting your decomposition approach:** We chose functional subsystem as the approach for solving the issue of parts delay because we are unable to function without parts. By having a delay, we are forced to wait before completing any other part of the project because the dimensions and engineering drawings were largely unavailable. |

**Parts took too long to arrive.**

**Solution**

We made some parts in-house to decrease wait time and increase productivity.

**Solution**

We estimated the size based on given dimensions, and corrected ourselves when the parts arrived.

**Sub-Problem 3**

We were unable to assemble until the parts arrived.

**Sub-Problem 2**

We were unable to find dimensions without parts.

**Solution**

We found private vendors that are less expensive and faster.

**Sub-Problem 1**

The Texas State University System (TSUS) Marketplace takes too long.