

Simple Machine Investigation

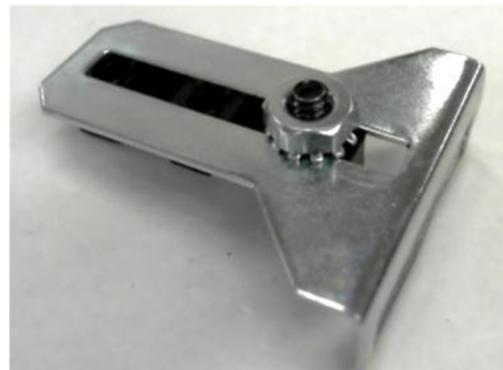
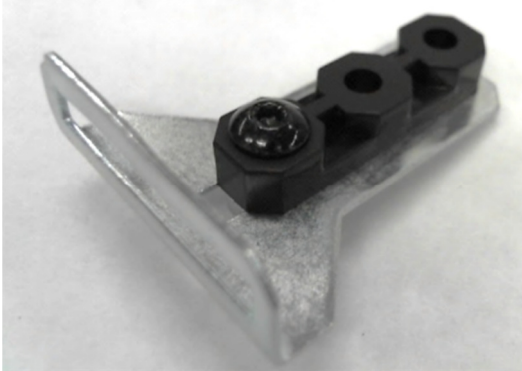
Build and Measurement Instruction for Pulleys

Pulley Assembly

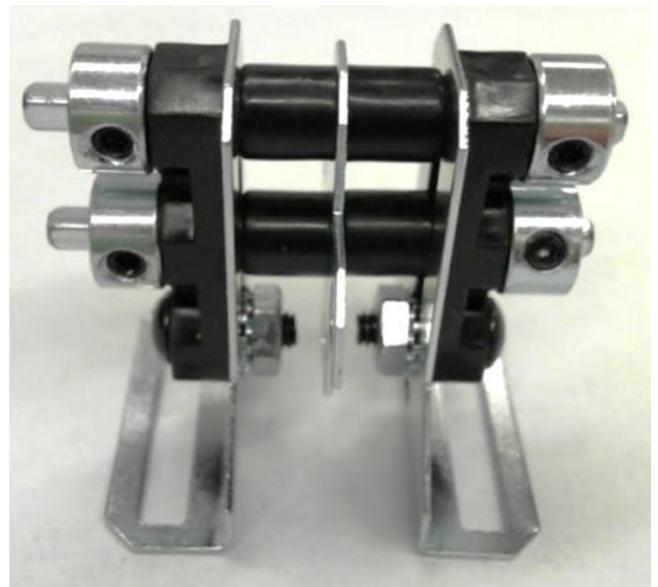
1. Gather Parts



2. Mount Delrin Bearings (repeat this step twice)



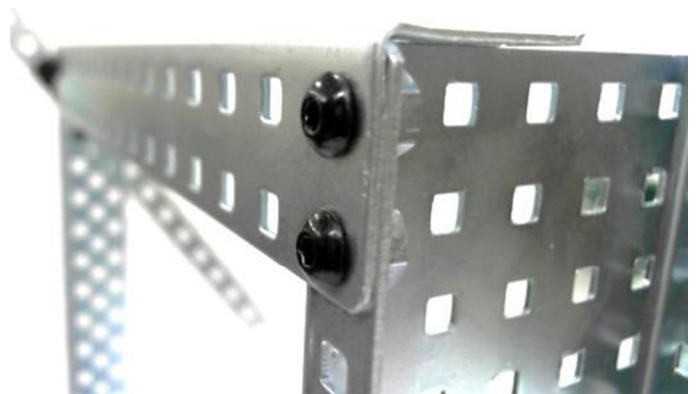
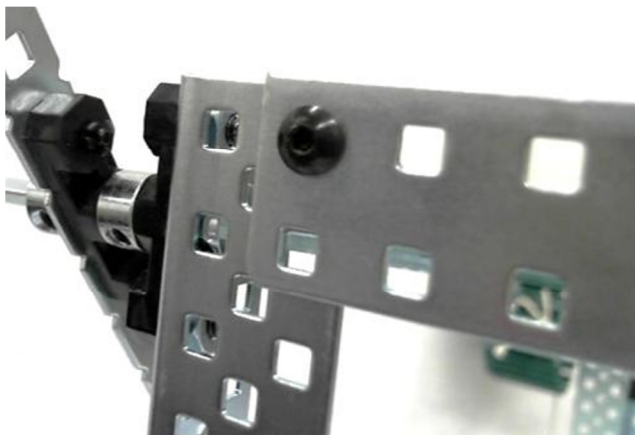
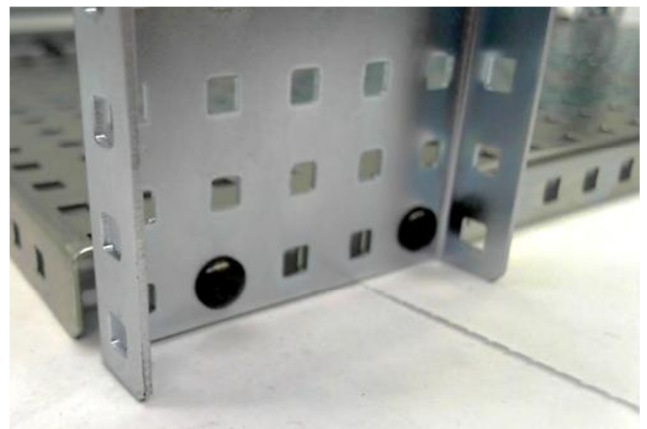
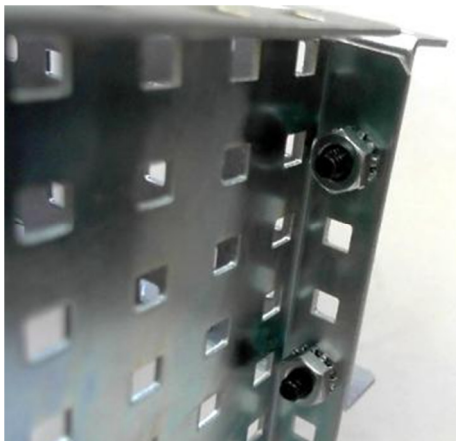
3. Finish assembly of this portion:



4. Gather Parts



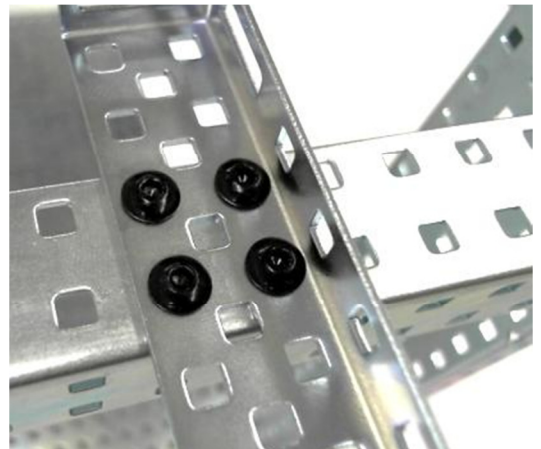
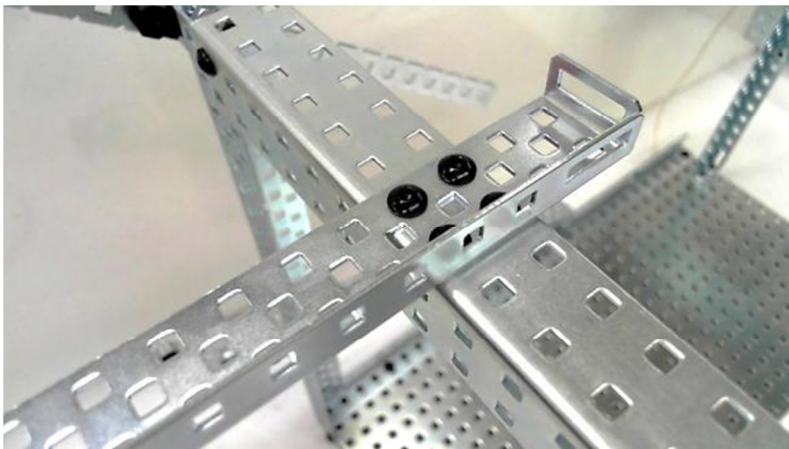
5. Assemble Upright and Crossbar of Pulley Stand.

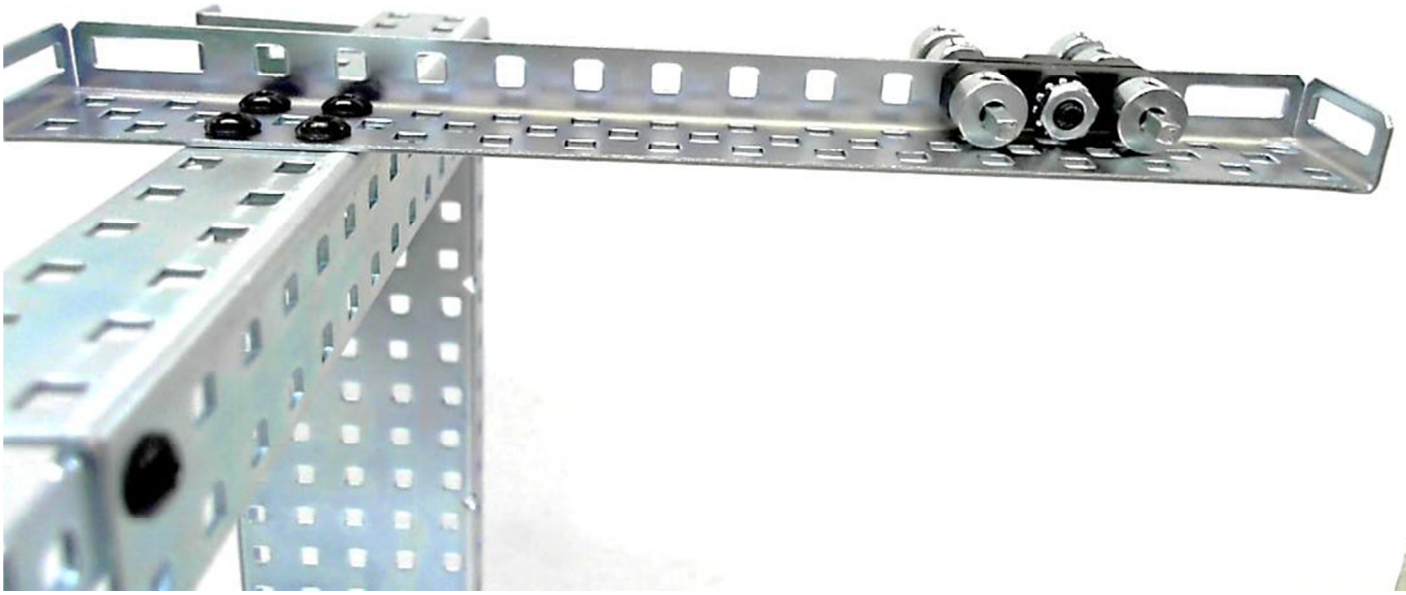


6. Gather Parts



7. Mount the Boom.





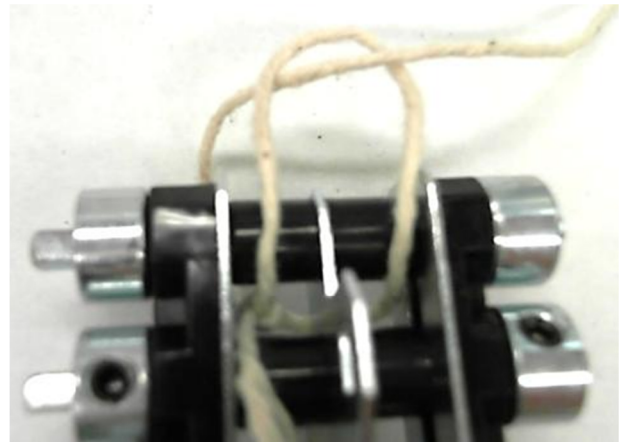
PULLEY MEASUREMENTS AND DATA COLLECTION

Use these instructions along with your Simple Machine Investigation Data Sheet Part 4-Pulleys

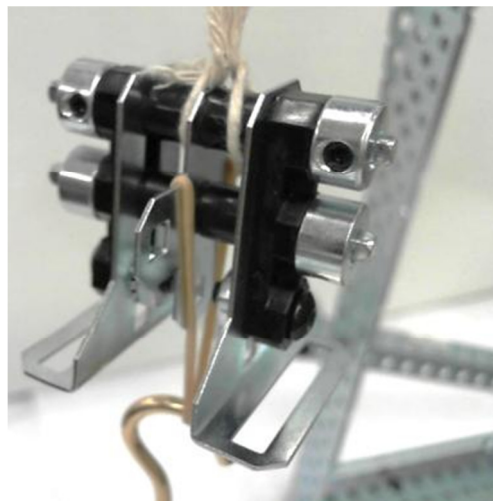
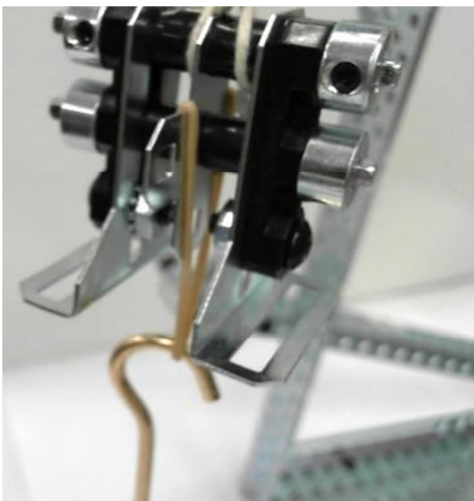
1. Gather Parts



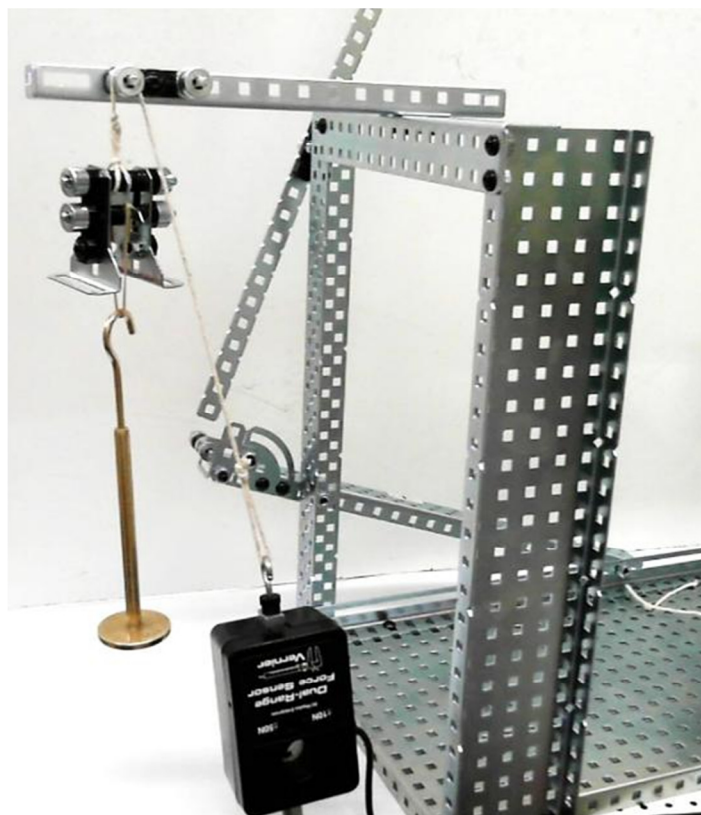
2. Attach string as shown:



3. Attach resistance force as shown:



Example of Fixed Pulley Set-up and Effort Force Measurement



Example of Moveable Pulley Set-up and Effort Force Measurement



Example of Block & Tackle and Effort Force Measurement



String is attached to
the force sensor here

