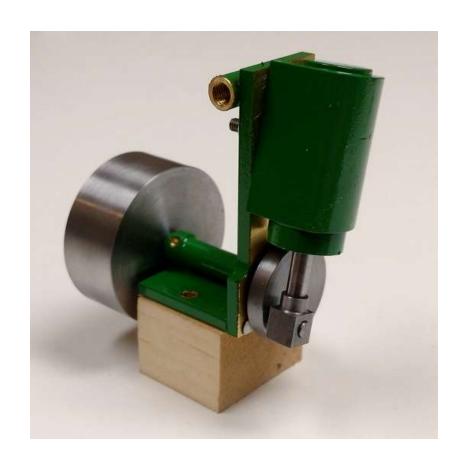
Building a Simple Steam Engine

Bob Sorenson

Objective





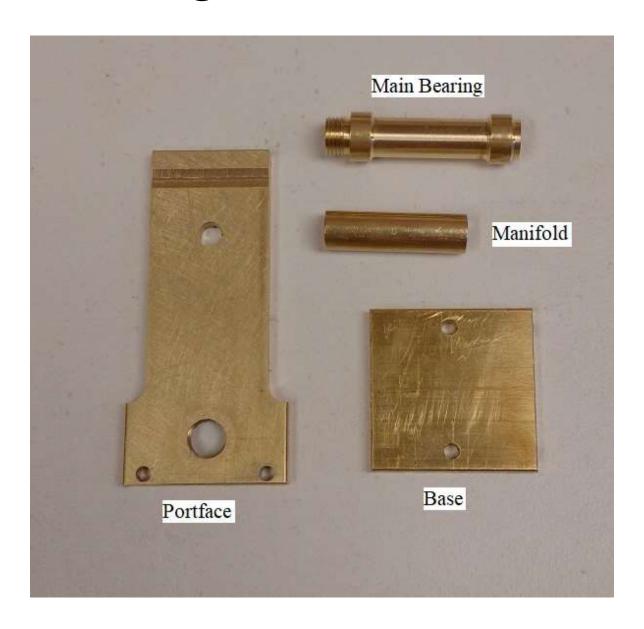
Single Acting Oscillating, 7/16" bore, 5/8" stroke

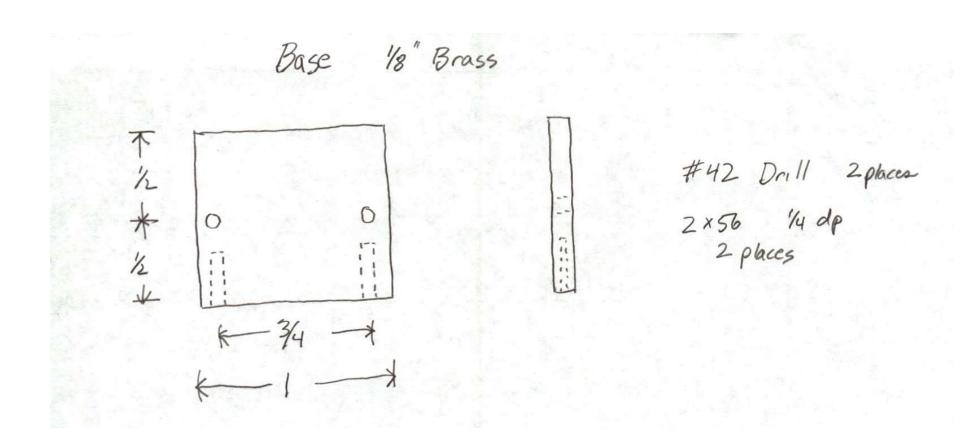
Engine Standard

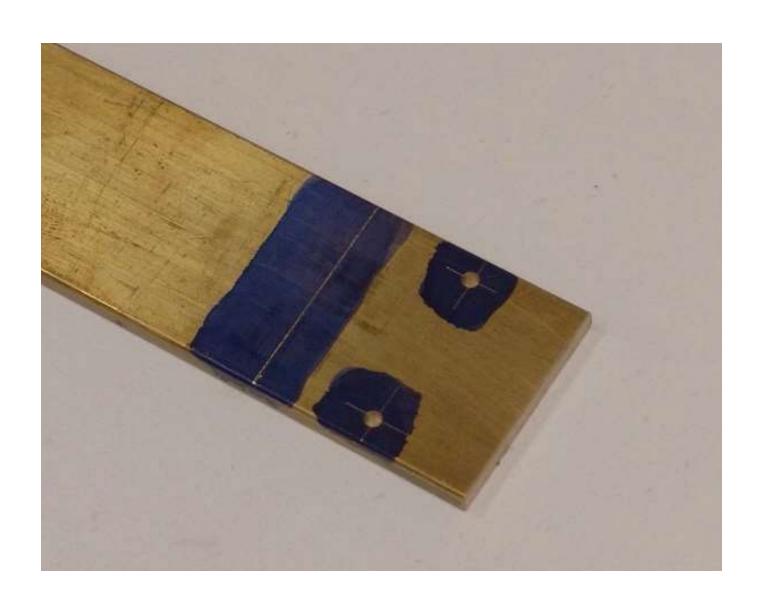




Engine Standard

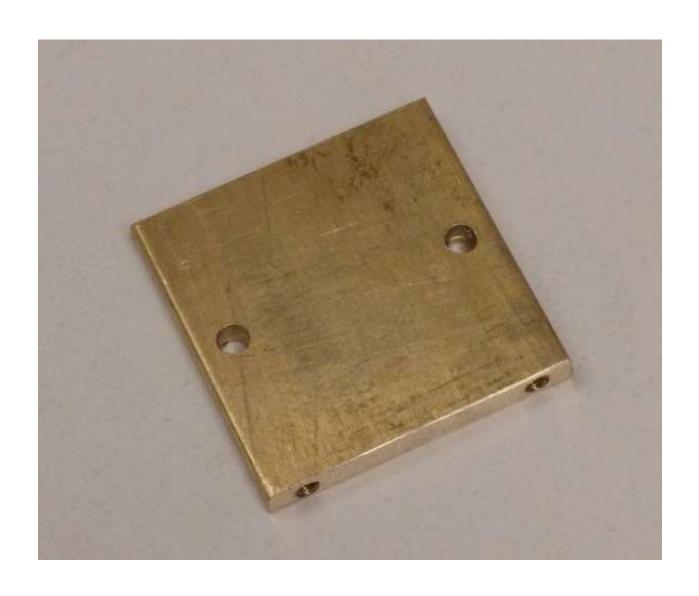


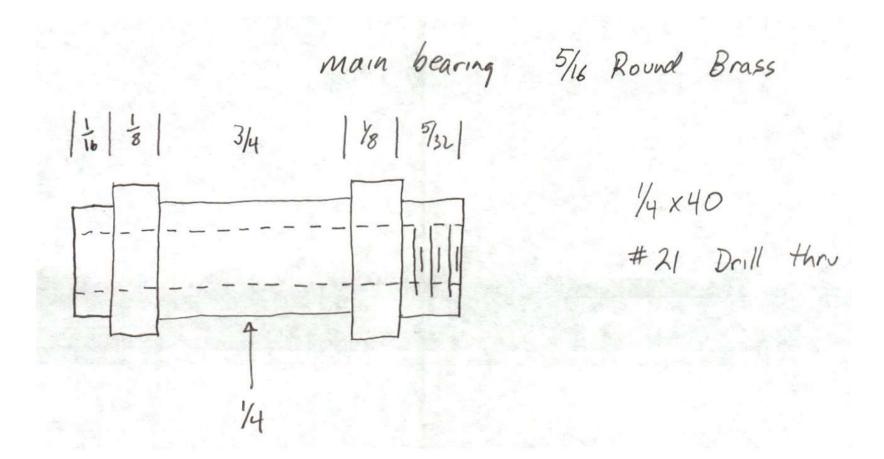






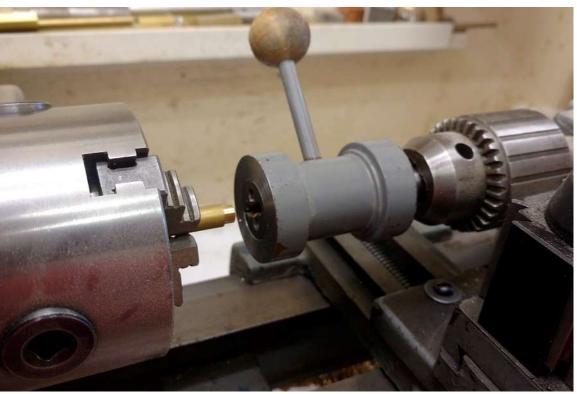






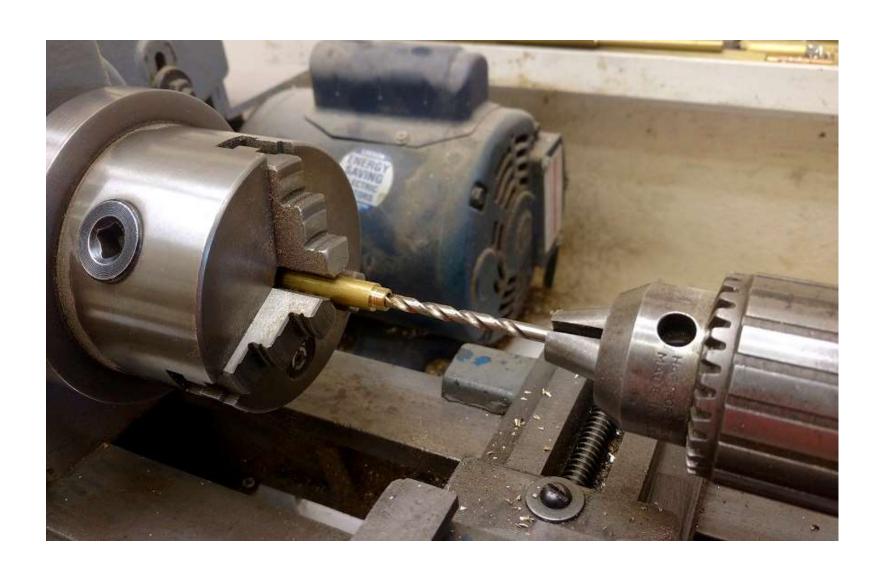


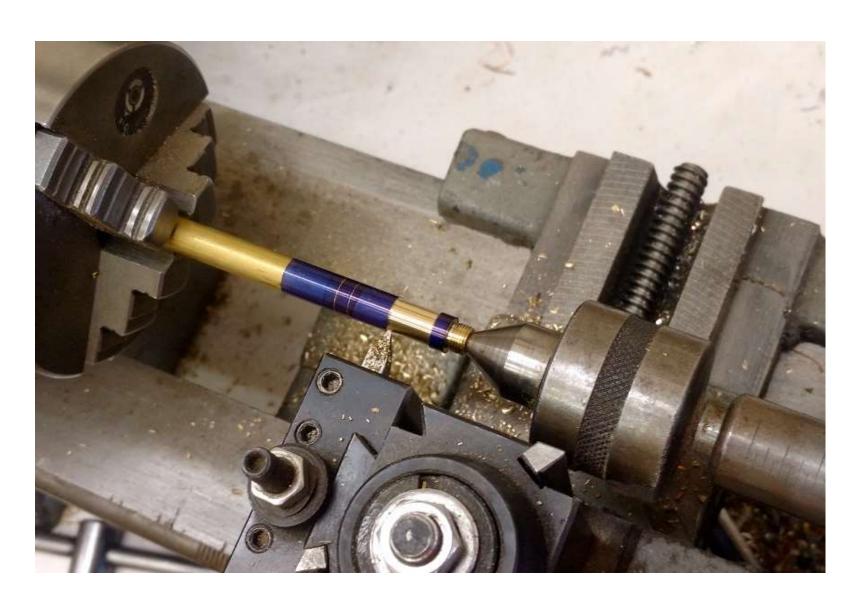






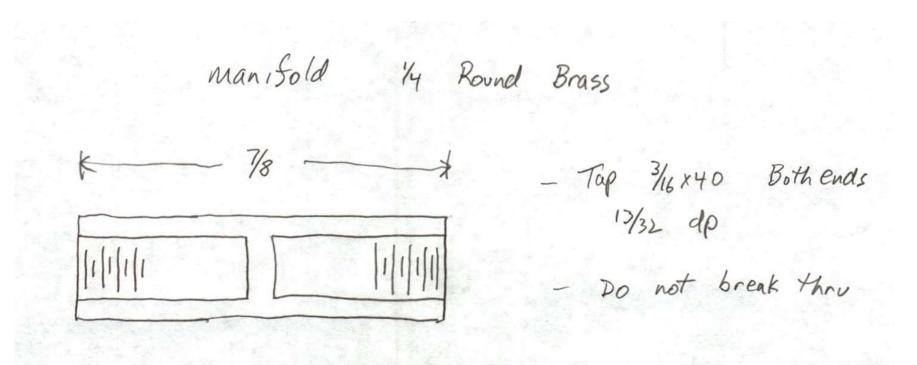






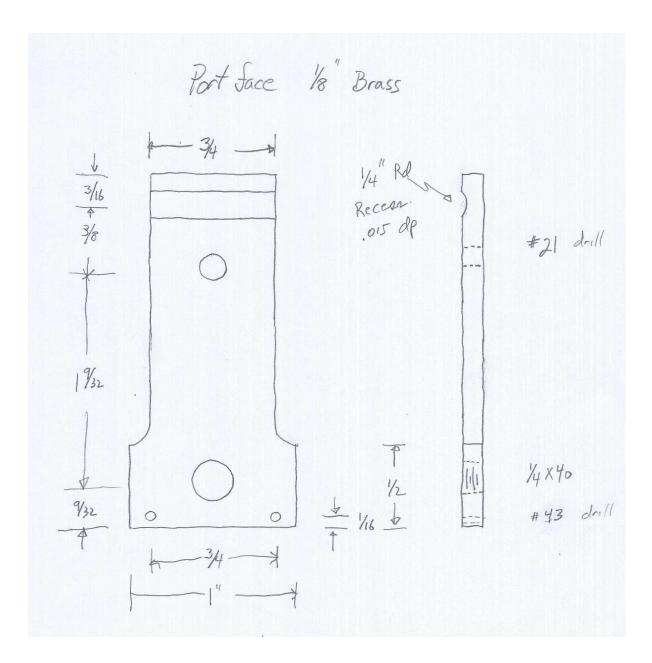


Steam Manifold



Steam Manifold

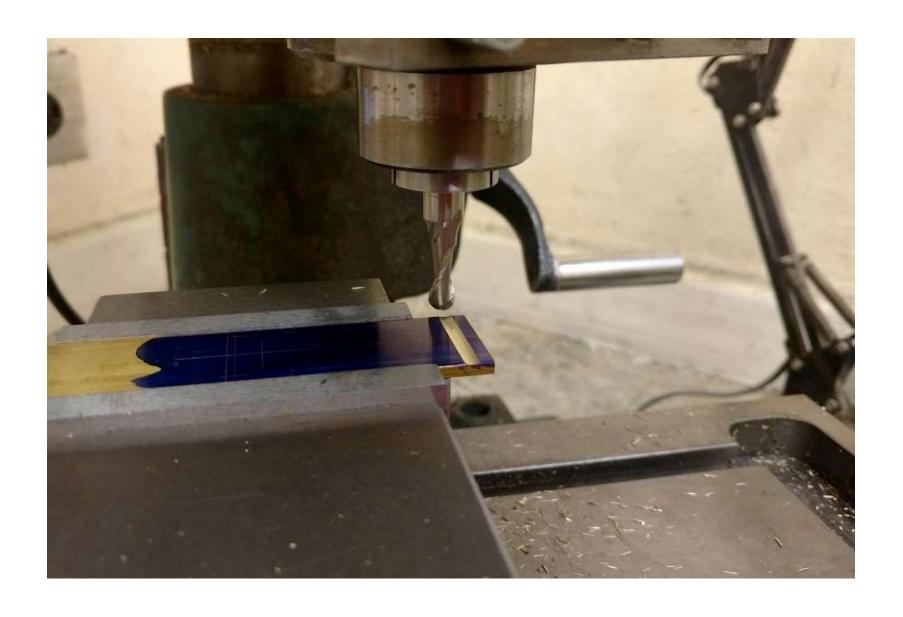








Homework Assignment: Study "Machinist Layout Techniques"





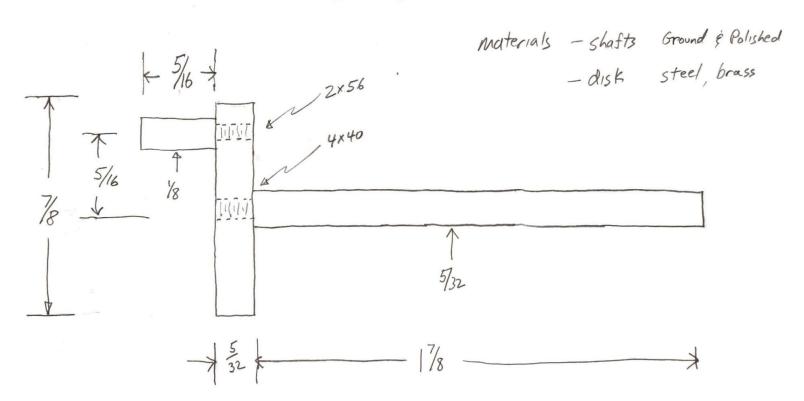


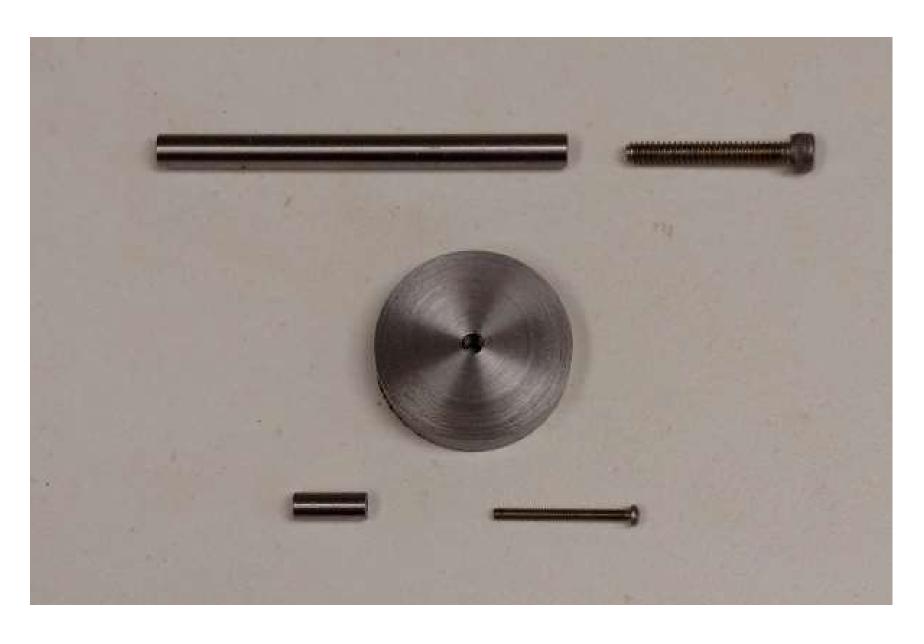


Engine Standard

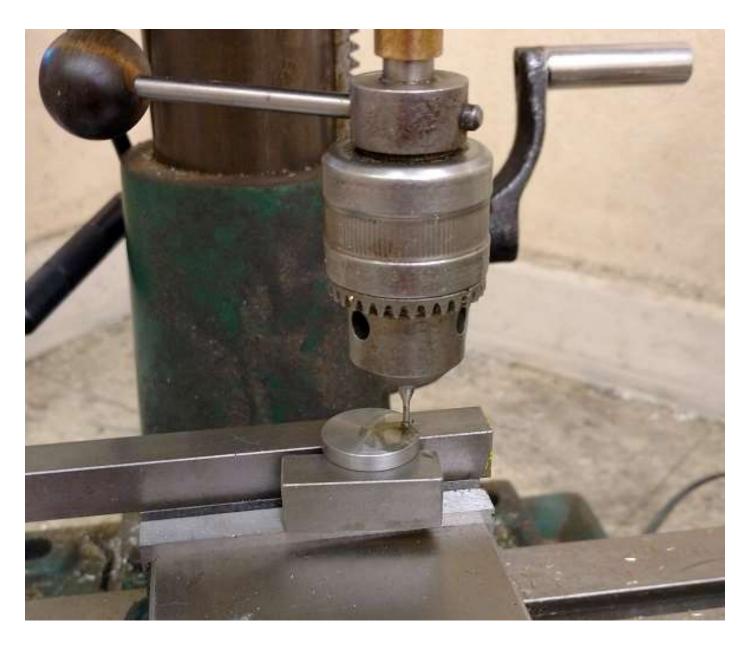




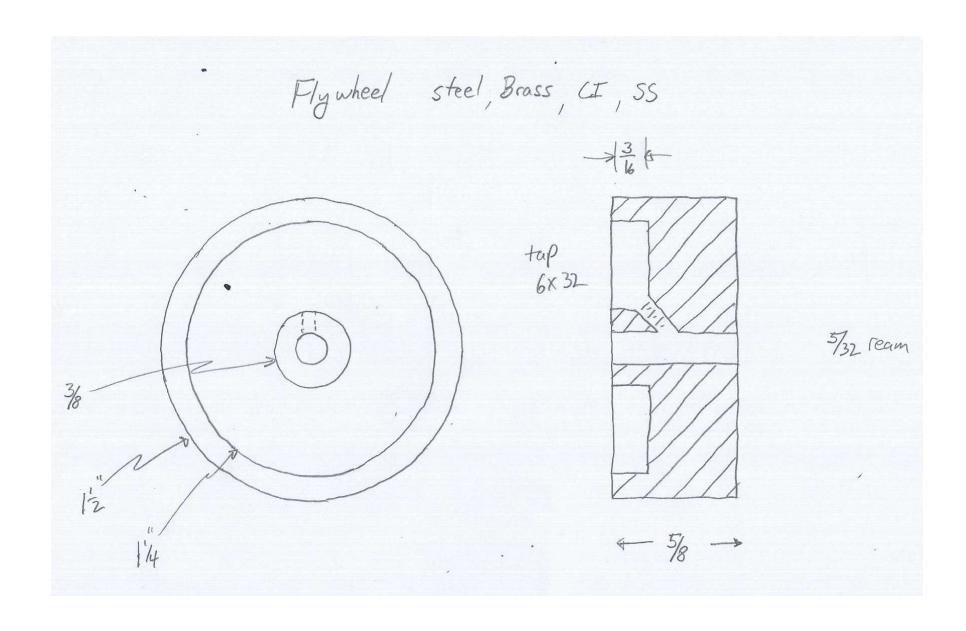


















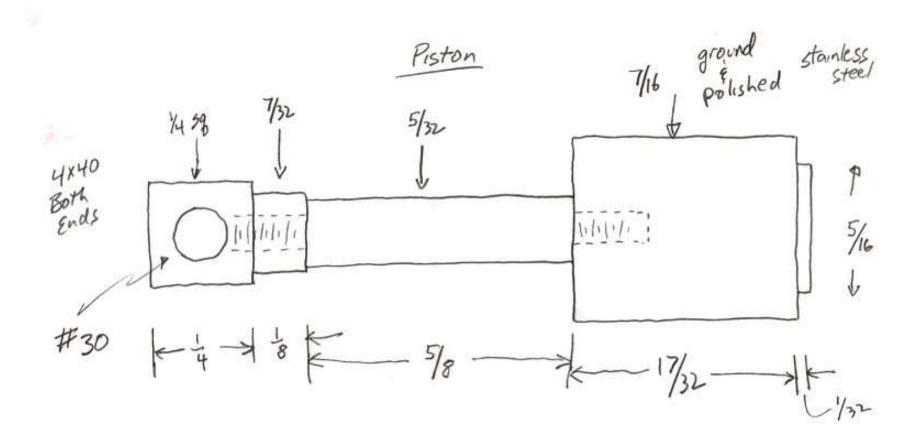


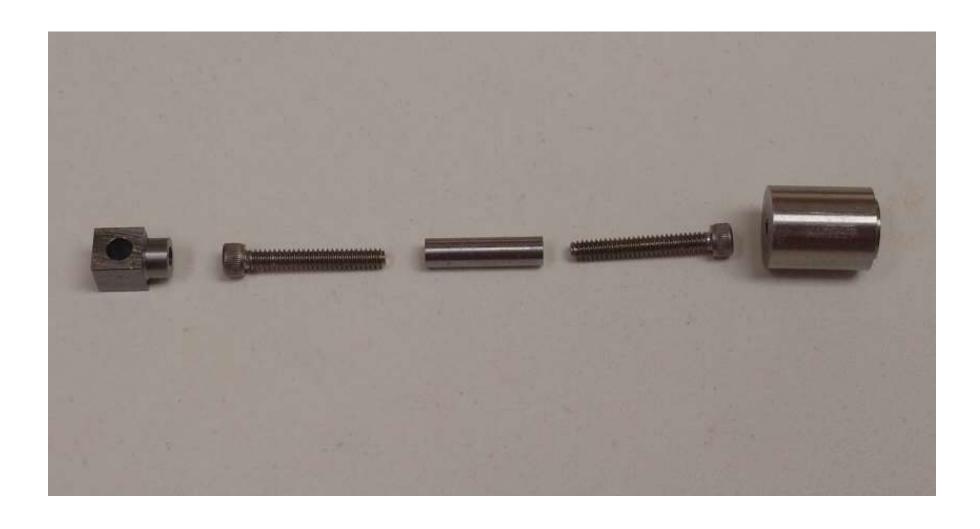




Rotating Assembly





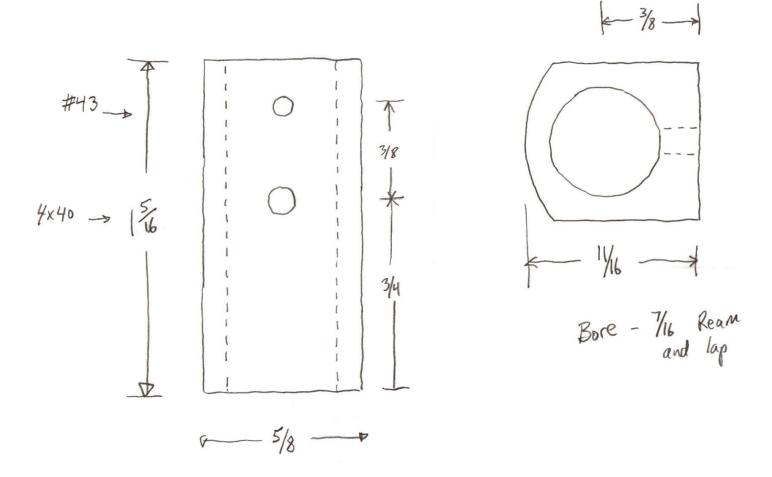




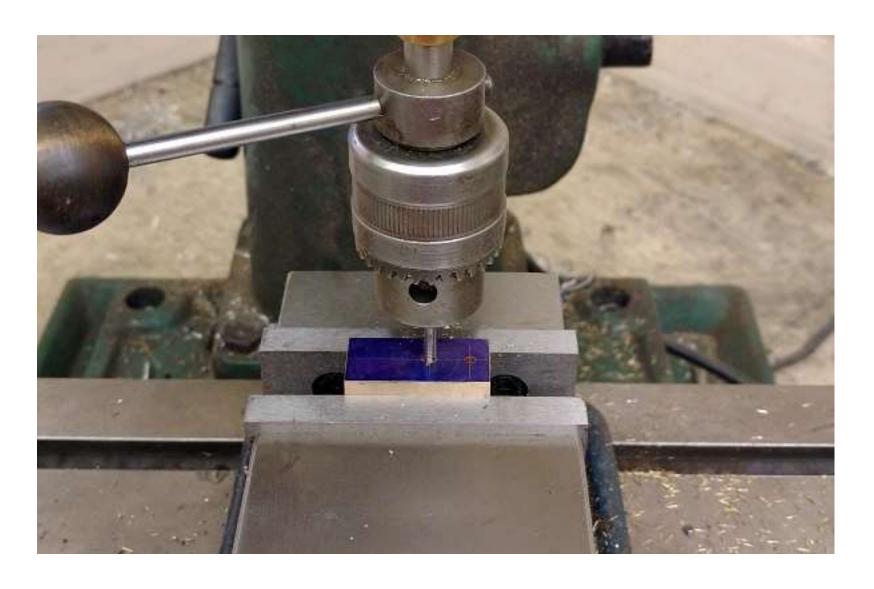




Cylinder Bronze

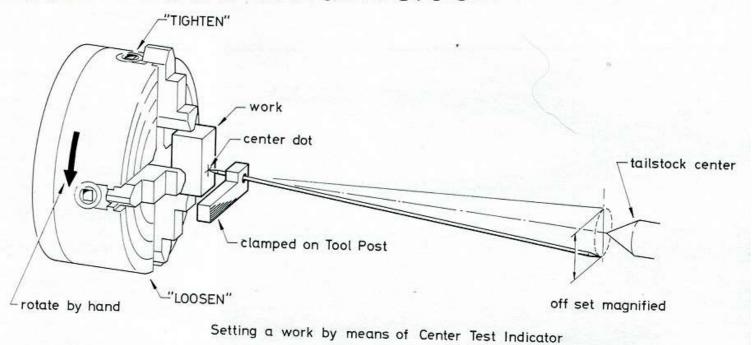






For accurate workpiece mounting, build a

Center Test Indicator



Homework Assignment: Kozo Center Test Indicator

Starrett Universal Test Indicator 64

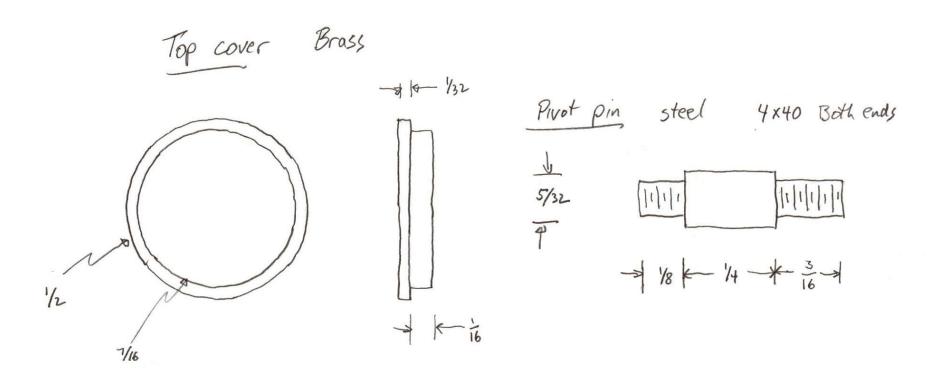






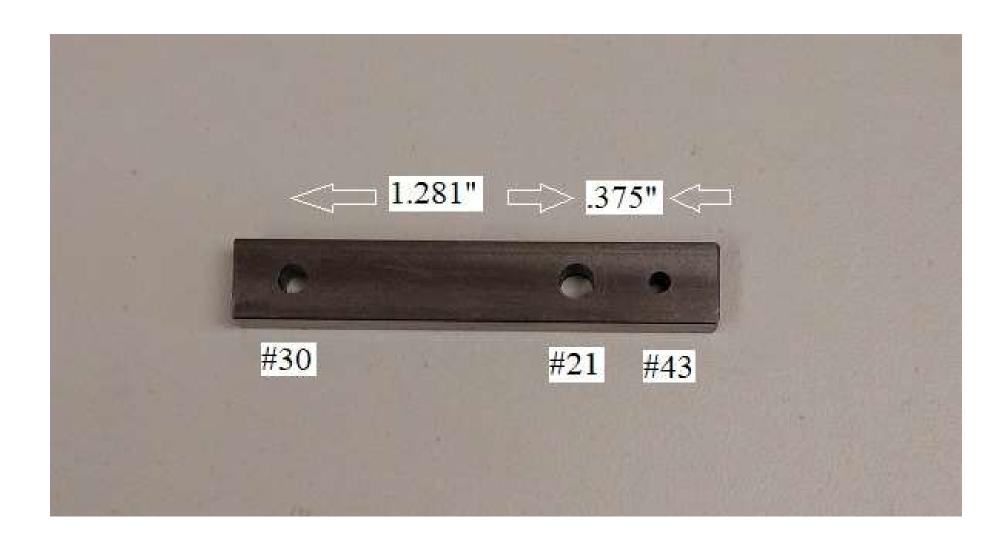


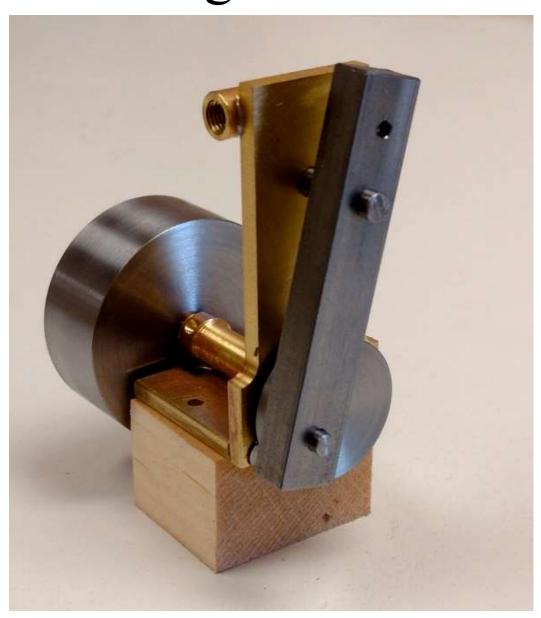














Final Assembly





Questions??