

- Assemble your **Howell Engine Parts**
  - It is only required to assemble one rocker arm set.
  - You will have to use the rigid to flexible feature to allow subassemblies to move.
  - Take screen captures of several steps along the way
- Begin modeling parts for your **sub-assembly mini-project**
  - Create Custom LEGO parts in LEGODrawingPackage**Part1**.pdf
- Create three **cutter/holder assemblies**
  - Use Cutter and holder design tables to make base cutter and holder part files
  - Make three credible cutter/holder assemblies from design tables & base parts
  - Save isometrics of your three cutter/holder assemblies

### Deliverables:

Save a single word document in your personal folder under 'Submitted Problem Sets' with the following:

- **Create Word document for grading** including:
  - Howell Engine assembly construction (pictures and documentation)
  - Screen captures of LEGO parts
  - Pictures of your three cutter and holder assemblies
  - Summary of things you learned while completing this hw assignment
- **In the Word document** answer the following questions:
  - In assembling your **Howell Engine Parts**, how do you change the orientation of an offset mate?
  - What part/assembly conditions need to exist to motivate design table creation?
  - What assumptions were necessary to make your custom LEGO parts and how could these have been simplified?