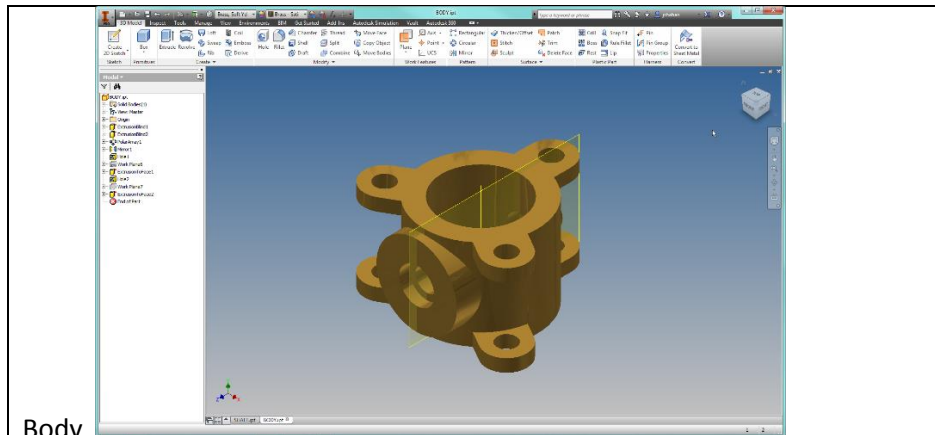


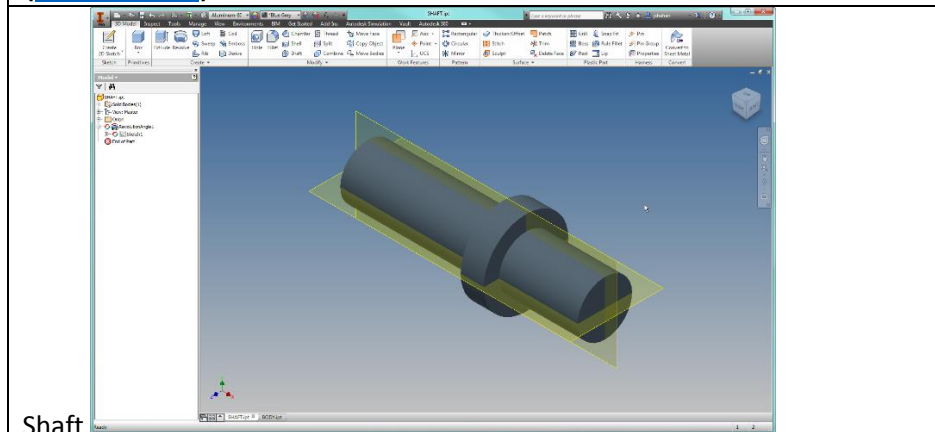
# WDP – Top Down Design

jcS-2/14/2014

## I. Create the Rough Parts



Body  
(Chronicle)



Shaft  
(Chronicle)

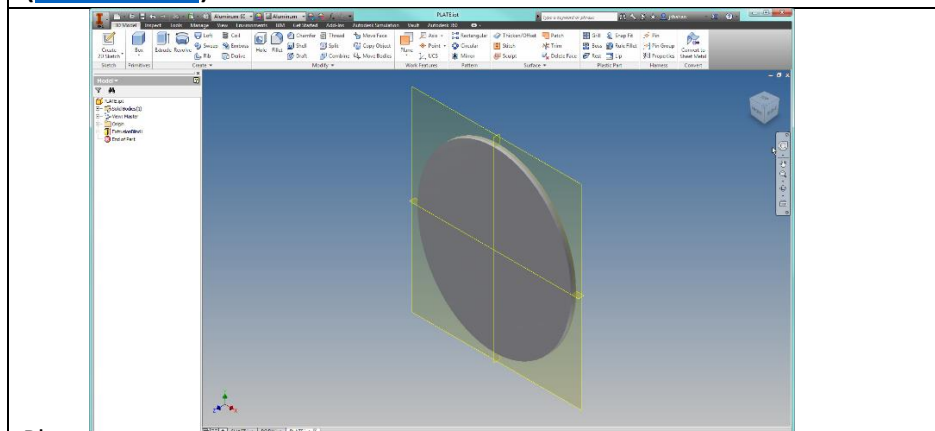
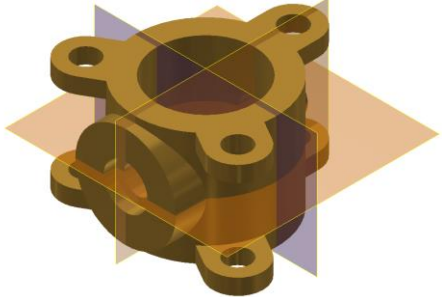
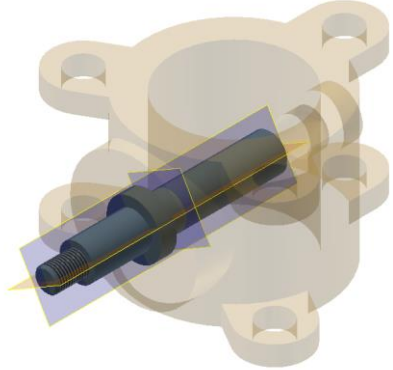
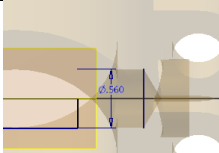
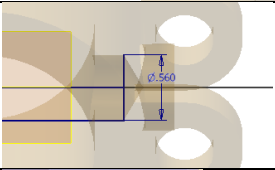
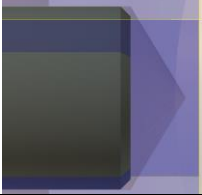


Plate  
(Chronicle)

# WDP – Top Down Design

jcS-2/14/2014

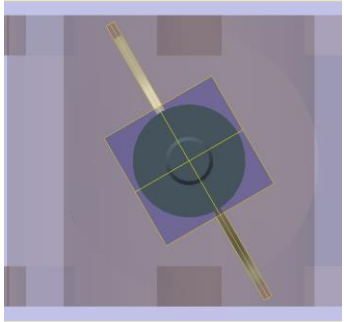
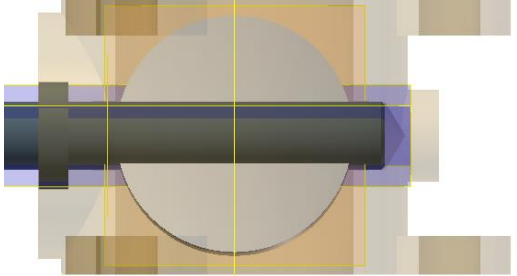
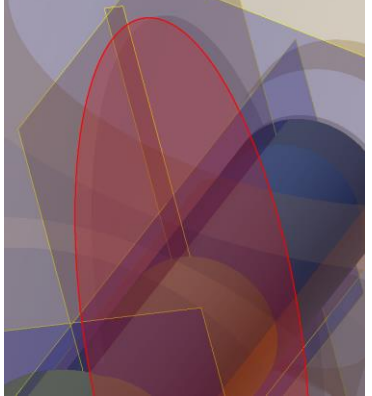
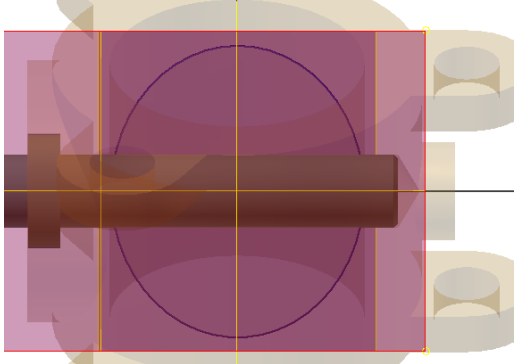
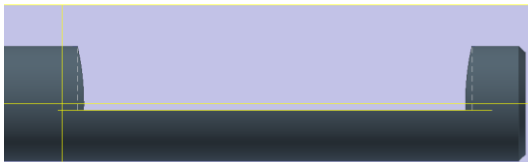
## II. Set the length of the Shaft ([Chronicle](#))

Outline:	
<ol style="list-style-type: none"> <li>1. Insert / Constrain the Body Component               <ol style="list-style-type: none"> <li>a. Use Planes: Orient and Fix</li> </ol> </li> </ol>	
<ol style="list-style-type: none"> <li>2. Insert / Constrain the Shaft               <ol style="list-style-type: none"> <li>a. Know: Diameters</li> <li>b. Unknown: Length (to be determined)</li> <li>c. Completely Constrain:                   <ol style="list-style-type: none"> <li>i. Insert</li> <li>ii. Angle: 30 deg offset</li> </ol> </li> </ol> </li> </ol>	
<ol style="list-style-type: none"> <li>3. Edit the appropriate sketch (Shaft)               <ol style="list-style-type: none"> <li>a. Project Geometry   Constrain</li> </ol> </li> </ol>	
<ol style="list-style-type: none"> <li> <ol style="list-style-type: none"> <li>b. Constrain: Colinear</li> </ol> </li> </ol>	
<ol style="list-style-type: none"> <li>4. Length Matches</li> </ol>	
<p>AutoDesk Chronicle</p>	

# WDP – Top Down Design

jcS-2/14/2014

## III. Cut for the plate to match the plate ([Chronicle](#))

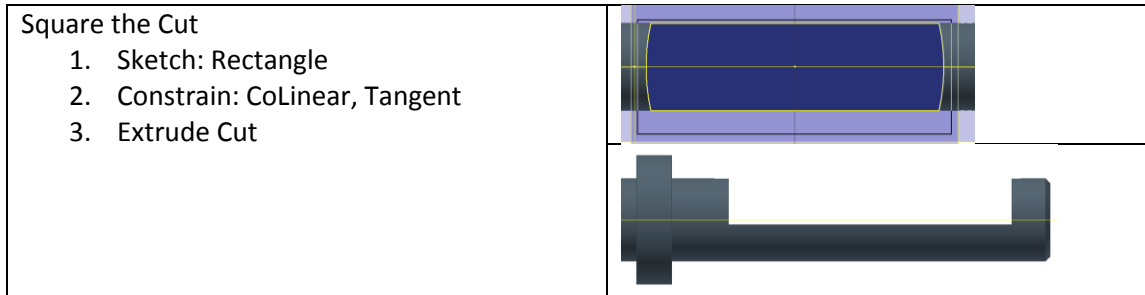
<ol style="list-style-type: none"><li>1. Insert / Constrain the Plate<ol style="list-style-type: none"><li>a. Center in the hole (Body)</li><li>b. Center on the shaft (2 constraints)</li></ol></li></ol>	
<p>Note: Body Disabled</p>	
<ol style="list-style-type: none"><li>2. Edit the Part (Shaft)<ol style="list-style-type: none"><li>a. Create 2D Sketch - Select appropriate face</li></ol></li></ol>	
<ol style="list-style-type: none"><li><ol style="list-style-type: none"><li>b. Project Geometry (Plate Edge)</li></ol></li></ol>	
<ol style="list-style-type: none"><li>3. Finish the sketch   Extrude - Cut</li></ol>	

# WDP – Top Down Design

---

jcS-2/14/2014

## IV. Simplify / Square the Cut ([Chronicle](#))



V. similar process is used for the woodruff key.