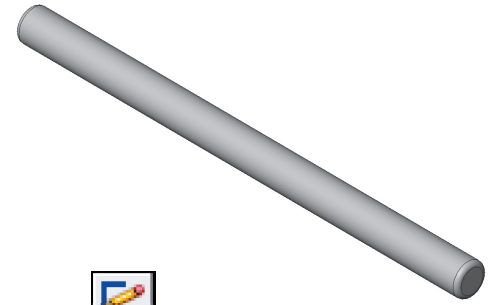


CO2 Shell Car Axle



A. Axle.

Step 1. Click File Menu > New, click **Part Metric** and OK.

Step 2. Click **Right** (plane) in the Feature Manager and click **Sketch**  from the Content toolbar, **Fig. 1**.

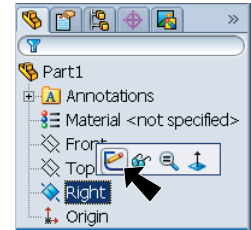


Fig. 1

Step 3. Click **Circle**  (S) on the Sketch toolbar.

Step 4. Draw a circle starting at the Origin , **Fig. 2**.

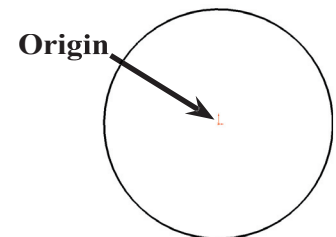


Fig. 2

Step 5. Click **Fully Defined Sketch**  (D) on the Sketch toolbar and OK  in the Property Manager.

Step 6. Dimension circle **diameter 3**, **Fig. 3**.

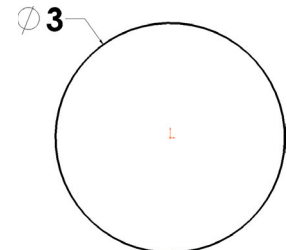
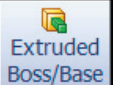


Fig. 3

Step 7. Click **Features**  on the Command Manager toolbar.

Step 8. Click **Extruded Boss/Base**  on the Features toolbar.

Step 9. In the Property Manager, under **Direction 1** set:

End Condition to **Mid Plane**

Depth  D1 to 44

and click OK , **Fig. 4** and **Fig. 5**.

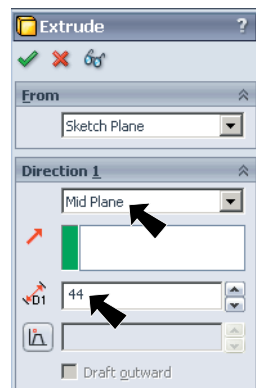


Fig. 4

Step 10. Click **Zoom to Fit**  (F) on the View toolbar.

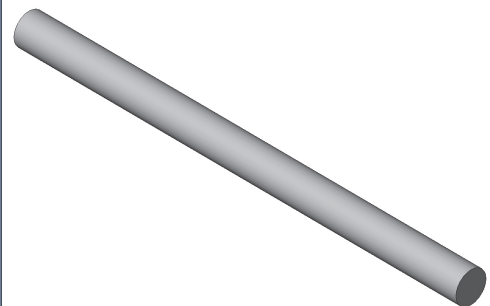


Fig. 5

B. Save as "AXLE".

Step 1. Click File Menu > Save As.

Step 2. Key-in **AXLE** for the filename and press ENTER.

C. Fillet Edges.

Step 1. Click **Fillet**  on the Features toolbar.

Step 2. Set the **Radius**  to **.4** in the Fillet Property Manager, **Fig. 6**.

Step 3. Click the edges at both ends of the axle and click OK  in the Property Manager, **Fig. 7** and **Fig 8**.

Step 4. Save. Use **Ctrl-S**.

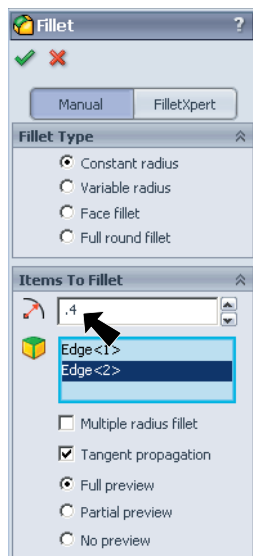


Fig. 6

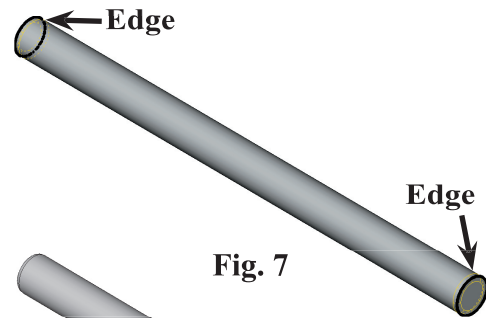


Fig. 7

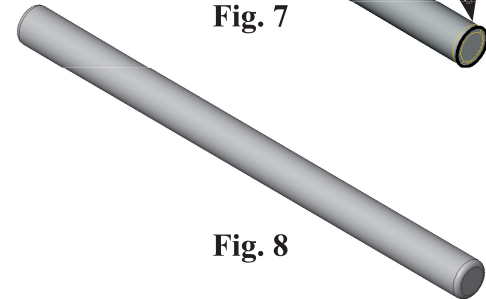


Fig. 8

D. Appearance.

Step 1. Click Edit Menu > Appearance > Material.

Step 2. Expand **Aluminum Alloys**, select **1060 Alloy** and click OK , **Fig 9**.

Step 3. Save. Use **Ctrl-S**.

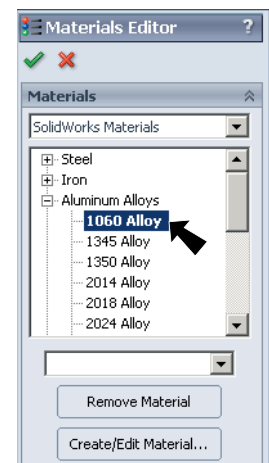


Fig. 9