



Chapter 11

Chair Plug



A. Plug.

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

Step 2. Click **Top Plane**  in the Feature Manager and click **Sketch**  from the Content toolbar, **Fig. 1**.

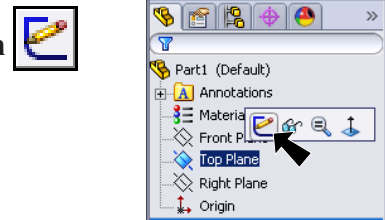


Fig. 1

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

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

Step 5. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 6. Dimension circle **diameter .38**, **Fig. 2**.

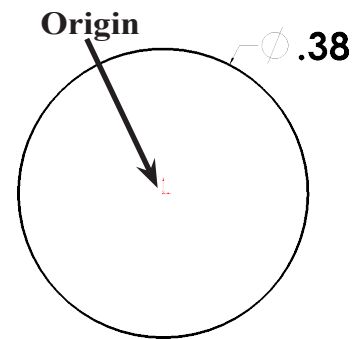
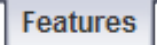
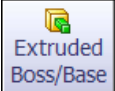




Fig. 2

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 set:

Depth  to **.11**
click **OK** , **Fig. 3** and **Fig. 4**.

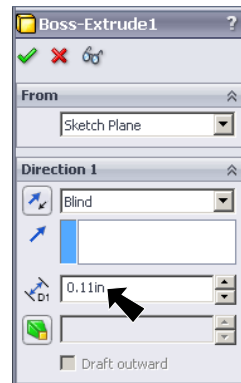


Fig. 3

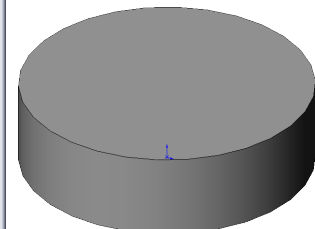


Fig. 4


B. Save as "PLUG".

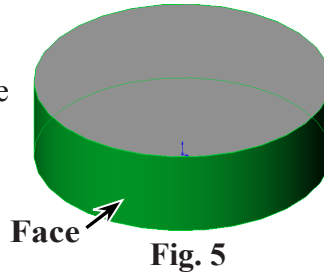
Step 1. Click File Menu > Save As.



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

C. Mate Reference.

Step 1. Click the **cylindrical face** to select it, **Fig. 5**.

Step 2. Click **Reference Geometry**  on the Features toolbar and **Mate Reference** from the menu.



Step 3. In the Mate Reference Manager:
 under **Primary Reference Entity**, **Fig. 6**
 set **Mate Reference Type**  to **Concentric**
 click **OK** , **Fig. 6**.

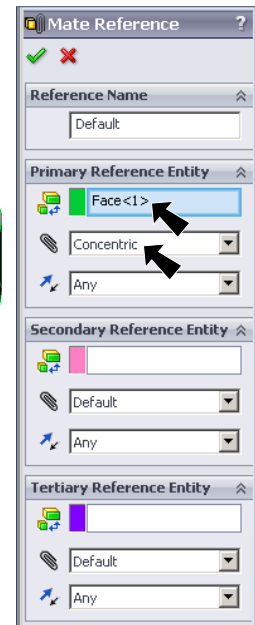



Fig. 6

D. Material Cedar.

Step 1. **Right click Material**  in the Feature Manager and click **Edit Material**, **Fig. 7**.

Step 2. **Expand Woods** (click the +) in the material tree and select **Cedar**, click **Apply** and **Close**.

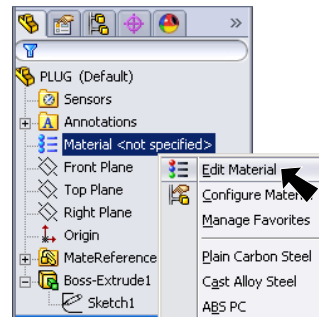




Fig. 7



Fig. 8

E. Adjust Mapping.

Step 1. Click the Plug to select part, click **Appearances Callout**  on the Content menu and click **PLUG** , **Fig. 9**.

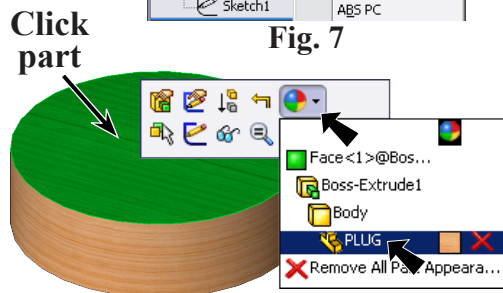


Fig. 9




Step 2. In the Property Manager,
 click **Advanced button**, **Fig. 10**
 click **Mapping tab** 
 under **Size/Orientation**
 set **Width**  to **6**
 click **OK** .



Fig. 10

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

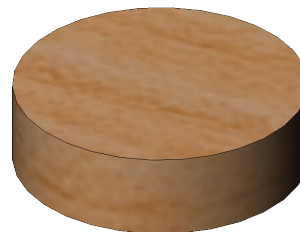


Fig. 11