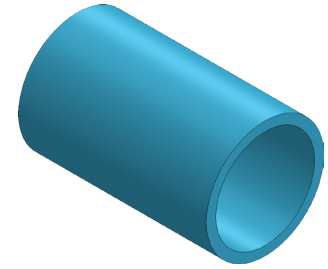




# JSS Bearing



## A. Bearing.

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

Step 2. Click **Right Plane**  in the Feature Manager and click **Sketch**  on the Context toolbar, **Fig. 1**.

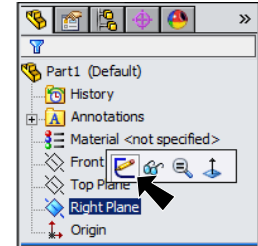



Fig. 1

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

Step 4. Draw **two** circles. Start each circle at Origin , **Fig. 2**.

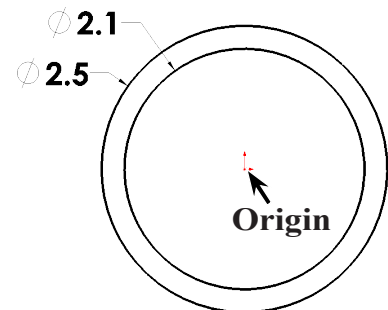
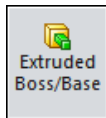


Fig. 2

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

Step 6. Dimension circle **diameters 2.1 and 2.5**, **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:  
under Direction 1, **Fig. 3**

**Depth**  **D1** **4**  
click OK .

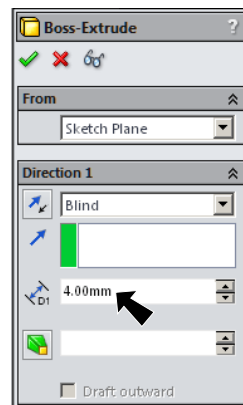



Fig. 3

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

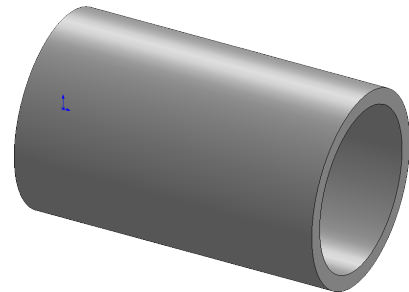


Fig. 4

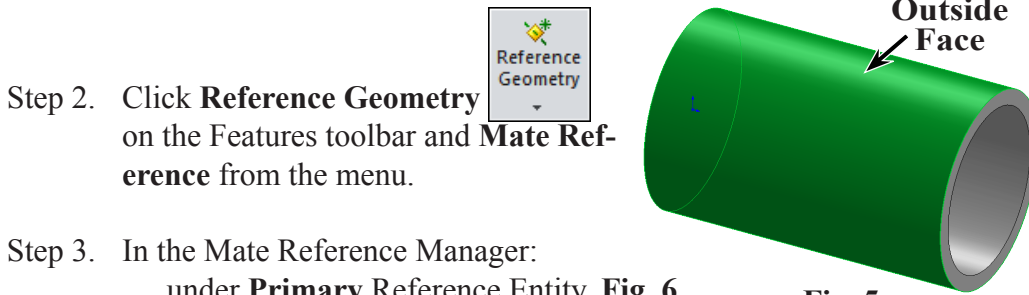
## B. Save as "BEARING".

Step 1. Click File Menu > Save As.

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

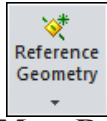
### C. Mate Reference Tangent.

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



**Fig. 5**

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

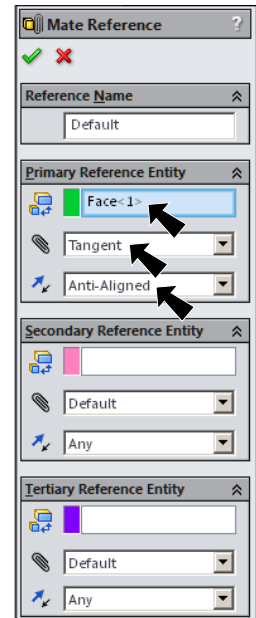


Step 3. In the Mate Reference Manager:  
under **Primary Reference Entity**, **Fig. 6**

Mate Reference Type  **Tangent**

Mate Reference Alignment  **Anti-Aligned**

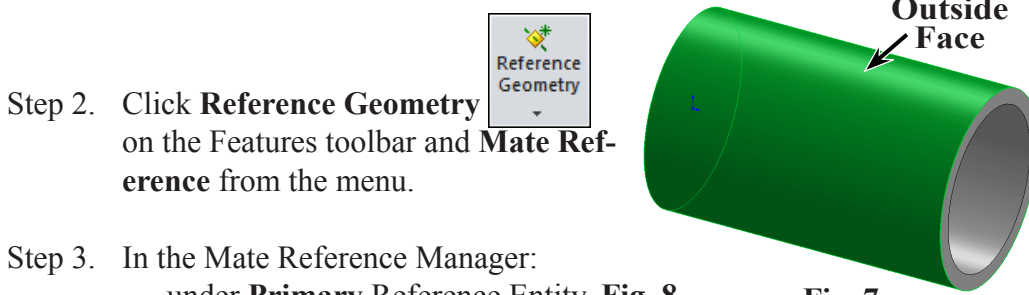
click OK .



**Fig. 6**

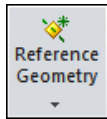
### D. Mate Reference Concentric.

Step 1. Click the **outside cylindrical face of Bearing** to select it, **Fig. 7**.



**Fig. 7**

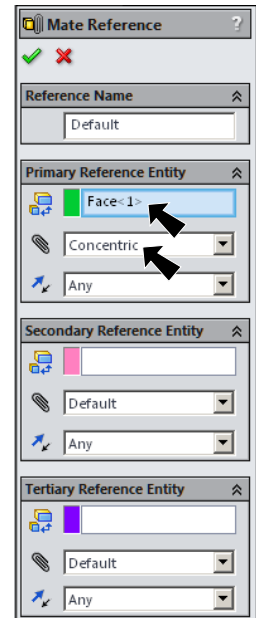
Step 2. Click **Reference Geometry** on the Features toolbar and **Mate Reference** from the menu.



Step 3. In the Mate Reference Manager:  
under **Primary Reference Entity**, **Fig. 8**

Mate Reference Type  **Concentric**


click OK .



**Fig. 8**

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

## E. Material Polypropylene.

Step 1. Right click Material  in the Feature Manager and click Edit Material, Fig. 9.

Step 2. Expand Plastics in the material tree and select PP Film. Click Apply and Close.

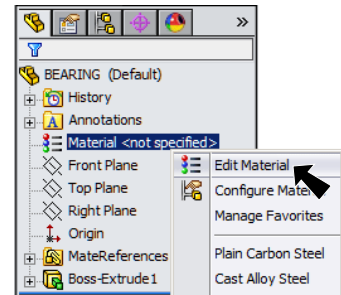




Fig. 9

## F. Appearance Color.

Step 1. Click the Bearing, click Appearance Callout  on the Context toolbar and click CHASSIS , Fig. 10.

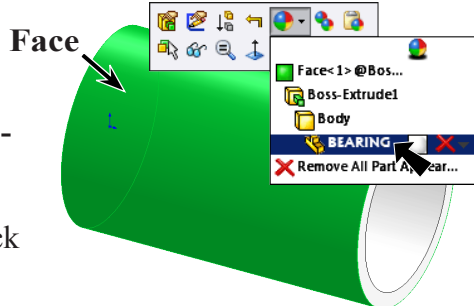


Fig. 10

Step 2. In the Appearances Property Manager, Fig. 11 under Color:

set RGB values

R 71

G 210

B 255

click OK .

Step 3. Save. Use Ctrl-S.

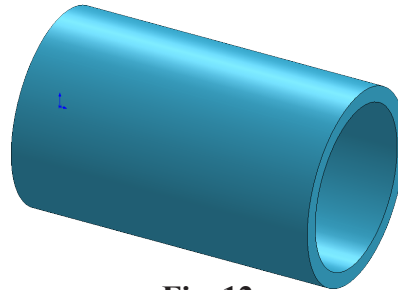


Fig. 12

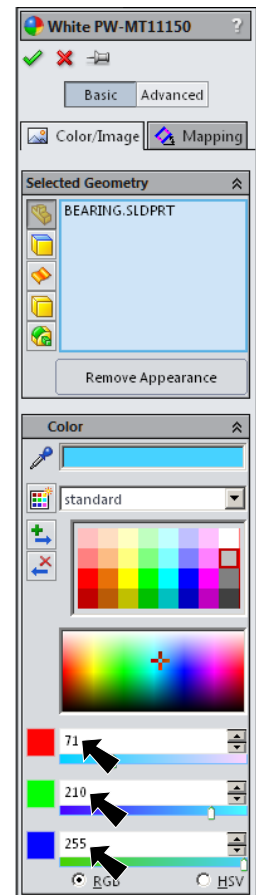


Fig. 11