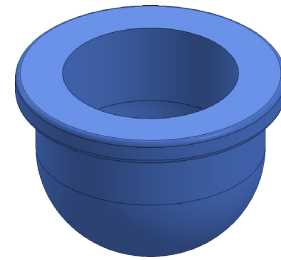




Skateboard Pivot Bushing



A. Lines.

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

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

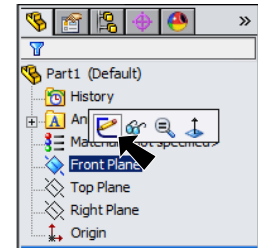


Fig. 1

Step 3. Click **Line**  (L) on the Sketch toolbar.

Step 4. Starting at Origin  draw lines, **Fig. 2**.

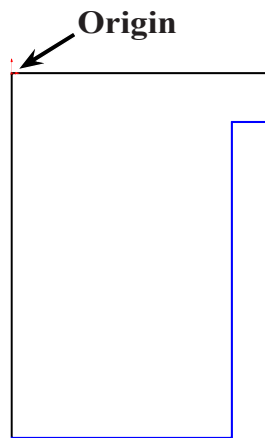



Fig. 2

Step 5. **Right click graphics area and click Select** from menu to unselect Line tool.

Step 6. Click **left vertical line** and click **Construction Geometry**  on the Context toolbar, **Fig. 3**.

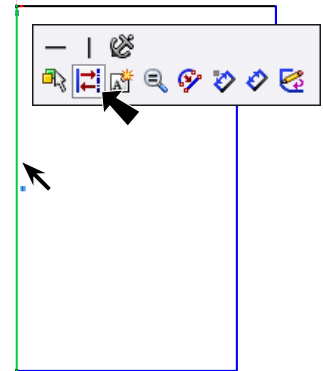


Fig. 3

Step 7. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 8. Add dimensions, **Fig. 4**. Dimension **double distance** 13.6 and 16.

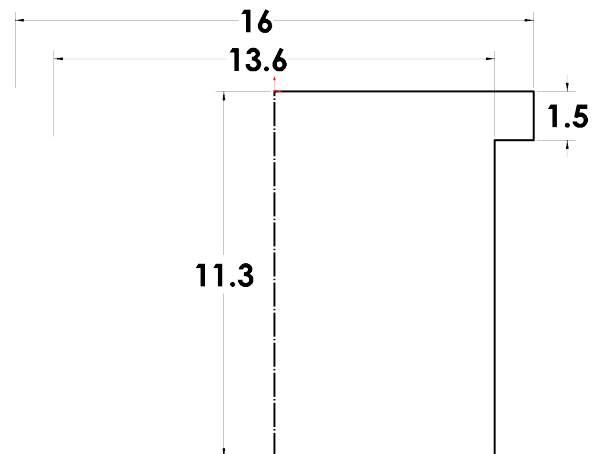


Fig. 4

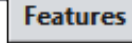
Step 9. Click **Zoom to Fit**  (F) on the View toolbar.


B. Save as "PIVOT BUSHING".


Step 1. Click File Menu > Save As.

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

C. Revolve.

Step 1. Click **Features**  on the Command Manager toolbar.

Step 2. Click **Revolved Boss/Base**  on the Features toolbar.

Step 3. In the Revolve Property Manger set:
 click **Yes** to close revolve message
 under Axis of Revolution
vertical centerline is selected, Fig. 5
 click OK .

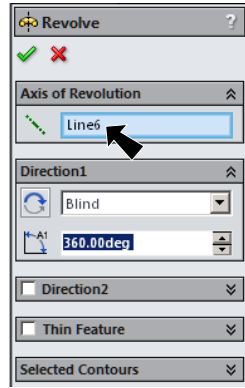


Fig. 5

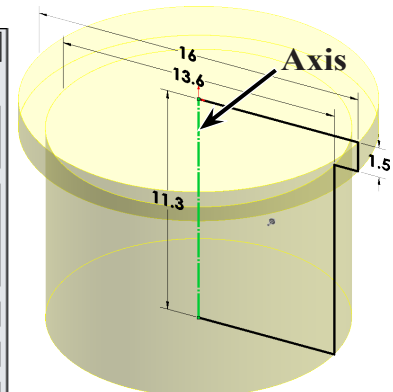



Fig. 6

D. Fillets.

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

Step 2. In the Fillet Property Manager:
 select **FilletXpert**, Fig. 7
Radius  **6.3**
 click **bottom circular edge**, Fig. 8
 click **Apply**.

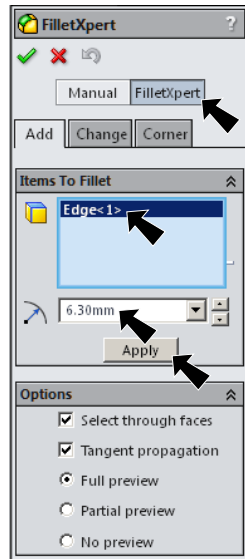


Fig. 7

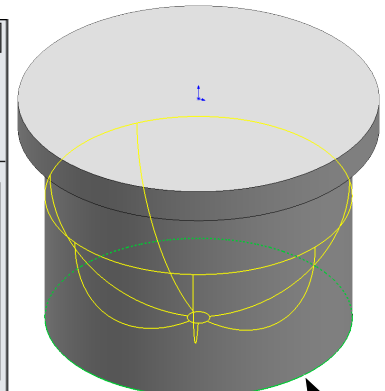




Fig. 8

Step 3. Set **Radius**  **.3** Fig. 9
 click **cylindrical face of lip**, Fig. 10
 click OK .

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

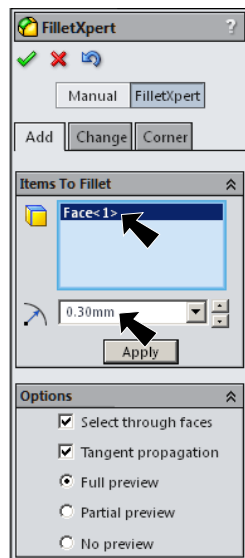


Fig. 9

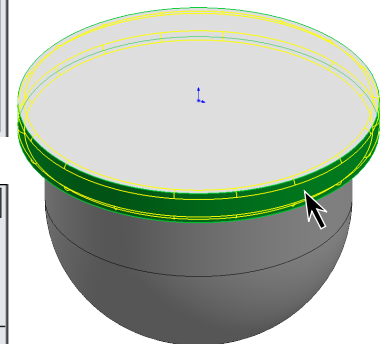


Fig. 10

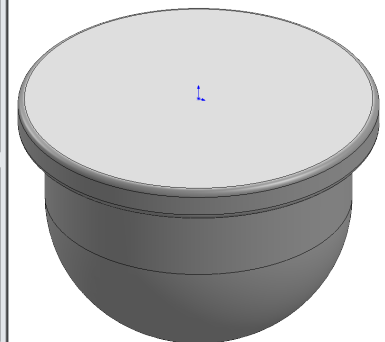



Fig. 11

E. Shell.

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

Step 2. In the Shell Property Manager set:
under Parameters, **Fig. 12**

Distance  **1.6**

check **Show preview**

in the face to remove box

click **top face**, **Fig. 13**

click **OK** .

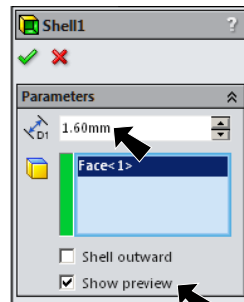


Fig. 12

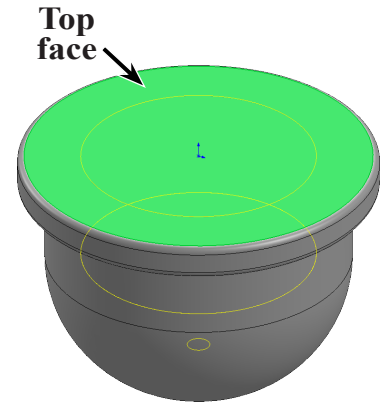




Fig. 13

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

F. Appearance.

Step 1. Click the part, click **Appearance**

Callout  on the Context toolbar
and click **PIVOT BUS...** , **Fig. 14**.

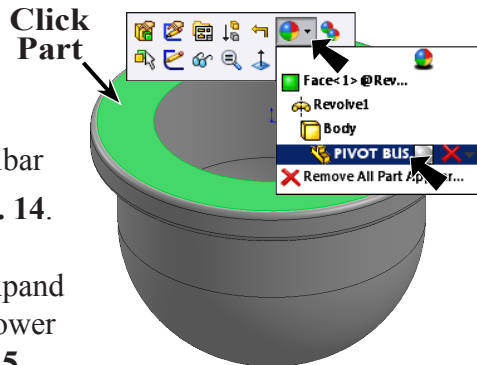
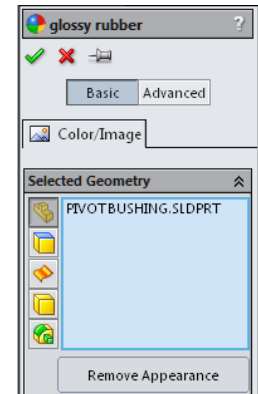


Fig. 14

Step 2. In the Appearances Task pane, expand **Rubber**, click **Gloss** and in the lower pane select **glossy rubber**, **Fig. 15**.



Step 3. In the Appearances Property Manager set:
click **Advanced** button, **Fig. 16**
under **Color**

set **RGB** values:

R 95

G 146

B 255

click **OK** .

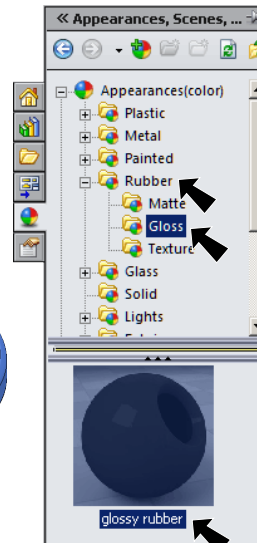


Fig. 15

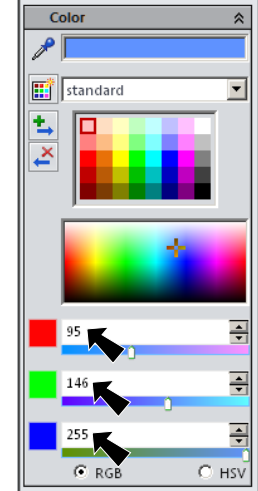


Fig. 16

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

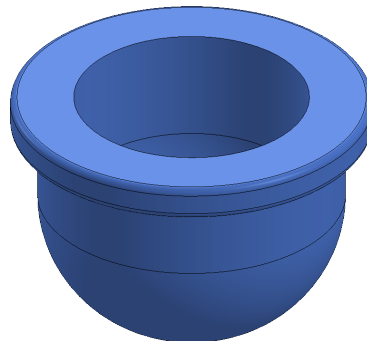


Fig. 17