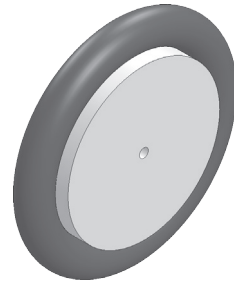


Wheel Sub Assembly





A. Insert Rim and Tire.

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

Step 2. Click **Keep Visible**  in the Property Manager, **Fig. 1**.

Step 3. Click **Browse** in the Property Manager, **Fig. 1**.

Step 4. Select your **RIM** file and click Open.


Step 5. Click OK  in the Property Manager. This will place the Rim origin at the assembly origin and fix the position of the Rim so that it cannot move. This fixed component should have a **(f)** before its name in the Feature Manager  **(f) RIM<1>**.

Step 6. Click **Browse** in the Property Manager, **Fig. 1**.

Step 7. Select your **TIRE** file and click Open.

Step 8. Place Tire as positioned in **Fig. 2**.

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

Step 10. Click OK  in the Property Manager when done.

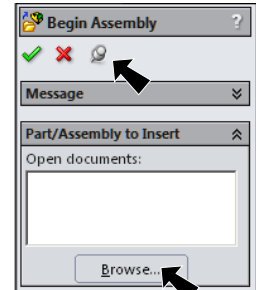


Fig. 1

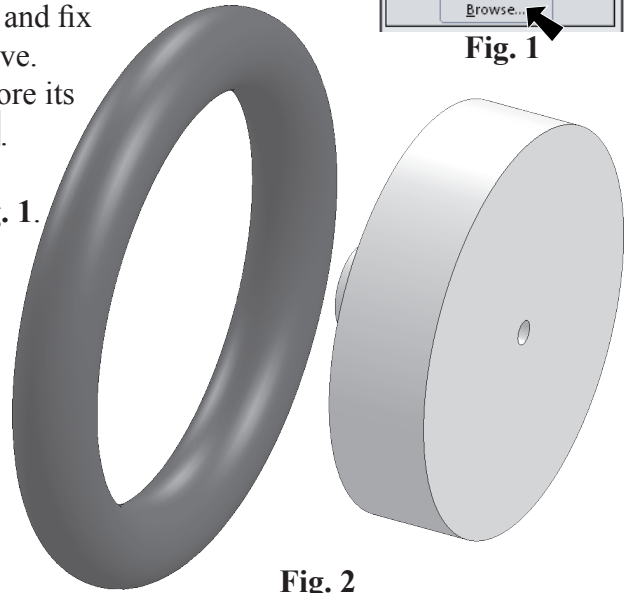




Fig. 2


B. Save as "WHEEL ASSEMBLY".


Step 1. Click File Menu > Save As.

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

C. Mate: Front Planes.

Step 1. Click **Front Plane**  in the Feature Manager and **Mate**  on the Context toolbar, **Fig. 3**.

Step 2. Expand the flyout Feature Manager design tree (click +) in the top left corner of the graphics area, then expand **Tire** and click **Front Plane** , **Fig. 4** and **Fig. 5**.

Step 3. Click Add/Finish Mate  in the Mate pop-up to add **Coincident** mate, **Fig. 6**.

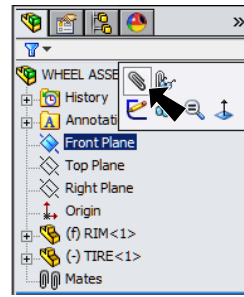


Fig. 3

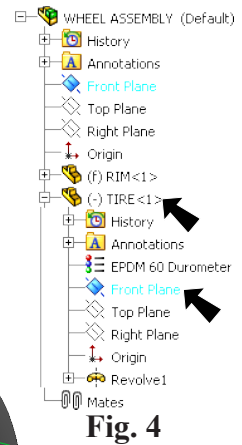




Fig. 4

D. Mate: Top Planes.

Step 1. Click **Top Plane**  in the flyout Feature Manager design tree, **Fig. 7**.

Step 2. Expand **Tire** and click **Top Plane** , **Fig. 7** and **Fig. 8**.

Step 3. Click Add/Finish Mate  in the Mate pop-up to add **Coincident** mate.

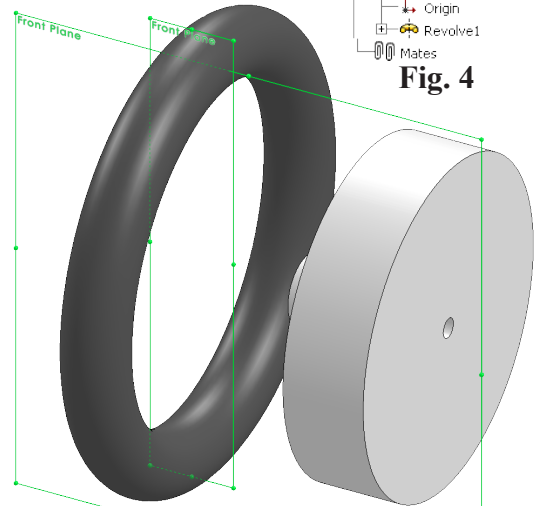


Fig. 5

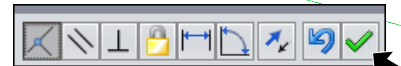


Fig. 6

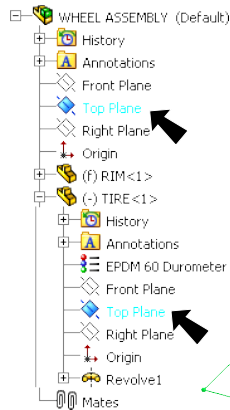


Fig. 7

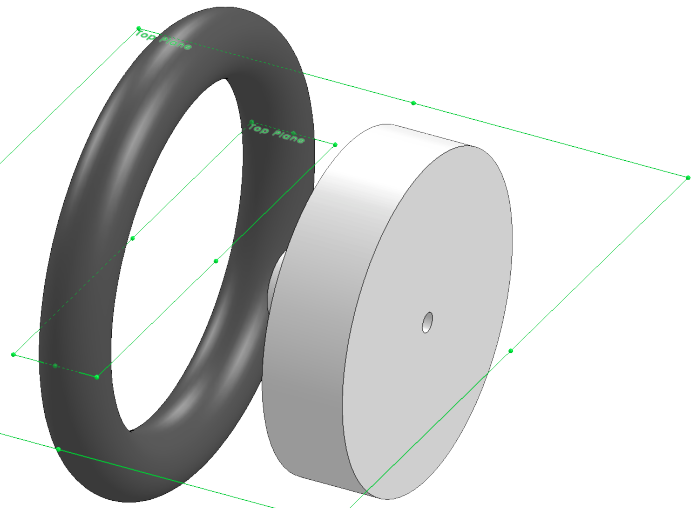





Fig. 8

E. Mate: Right Planes.

Step 1. Click **Front**  on the Standard Views toolbar. (**Ctrl-1**)

Step 2. Click **Right Plane**  in the flyout Feature Manager design tree, **Fig. 9**.

Step 3. Expand **Tire** and click **Right Plane** , **Fig. 9**.

Step 4. Click **Distance**  in Mate pop-up, **Fig. 10**. Set distance **3.15** and press ENTER. The Tire should be centered on Rim, **Fig. 11**. If positioned in opposite direction, click **Flip Dimension**  in the Mate pop-up, **Fig. 10**. Click Add/Finish Mate  to add Distance mate.

Step 5. Click OK  in the Property Manager.

Step 6. Click **Trimetric**  on the Standard Views toolbar.

Step 7. Save. Use **Ctrl-S**.

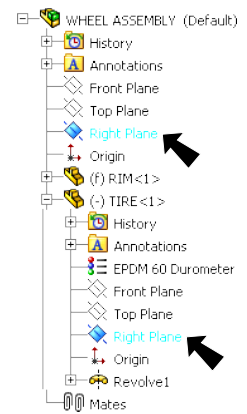


Fig. 9



Fig. 10

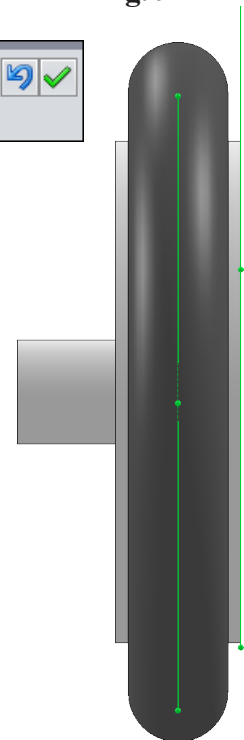


Fig. 11

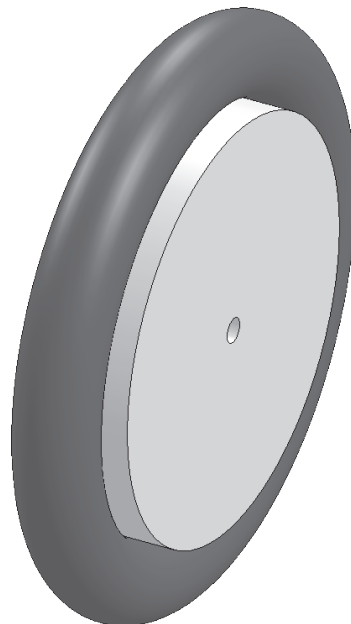


Fig. 12