

Strut Sub Assembly

A. New Assembly and Insert Part.

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

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

Step 3. Select your **Strut Ring** file and click Open.

Step 4. Click OK  in the Property Manager. This will place the Strut Ring origin at the assembly origin and fix the position of the Strut Ring so that it cannot move. This fixed component should have a **(f)** before its name in the Feature Manager  **(f) STRUT RING<1>**.

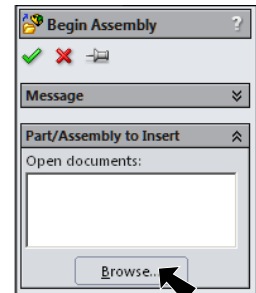
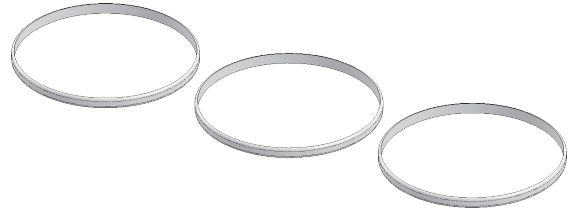


Fig. 1


B. Save as "STRUT ASSEMBLY".

Step 1. Click File Menu > Save As.

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

C. Sketch1.

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

Step 2. Click **Normal To**  on the Standard Views toolbar. (**Ctrl-8**)

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

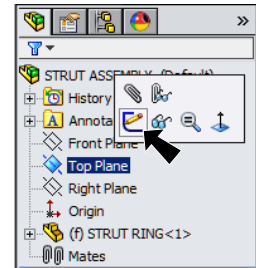



Fig. 2

Step 4. Sketch a **horizontal line out to left from Origin**  **Fig. 3** and **another horizontal line out to right**, **Fig. 4**. To terminate chain, double click back on the line you have just sketched. Must sketch two lines.

Step 5. Click **Exit Sketch**  on the Sketch toolbar.

Step 6. Save. Use **Ctrl-S**.

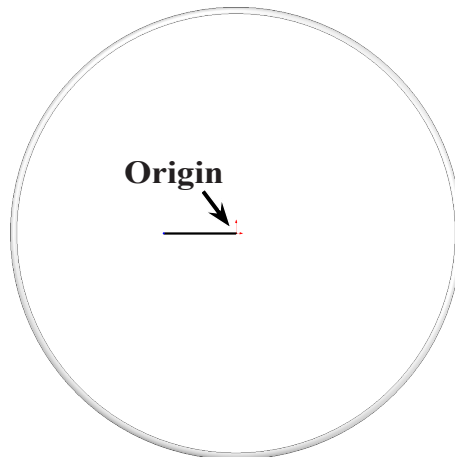


Fig. 3

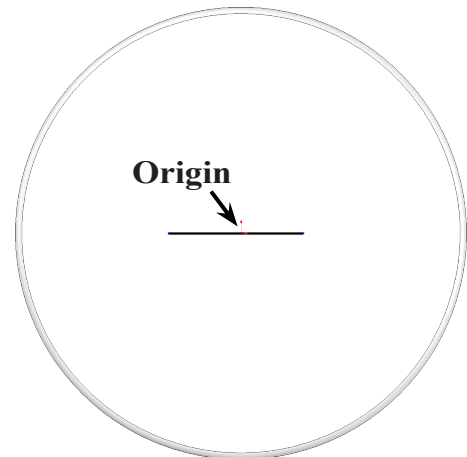


Fig. 4

D. Linear Component Pattern.

Step 1. Click **Linear Component Pattern**  on the Assembly toolbar.

Step 2. In the Linear Property Manager set:

under Direction 1, **Fig. 5**

click in Pattern Direction box and click **Line 1**

Spacing  D1 1.1

Number of Instances  # 2

under Components to Pattern

click in Components to Pattern box and click **Ring**, **Fig. 6**

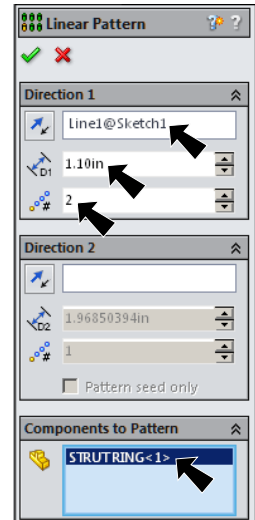


Fig. 5

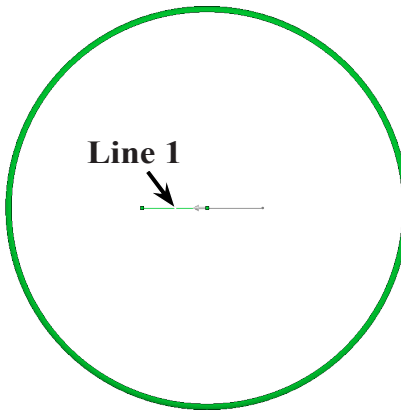
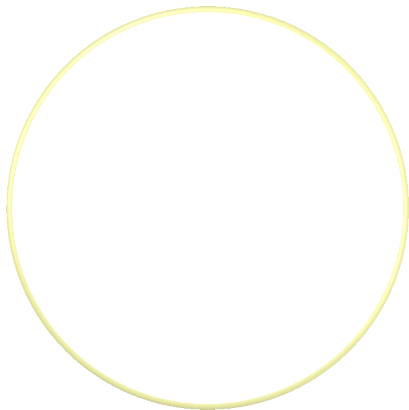


Fig. 6

under Direction 2, **Fig. 7**

click in Pattern Direction box and click **Line 2**, **Fig. 8**

Spacing  D2 1.1

Number of Instances  # 2

click OK .

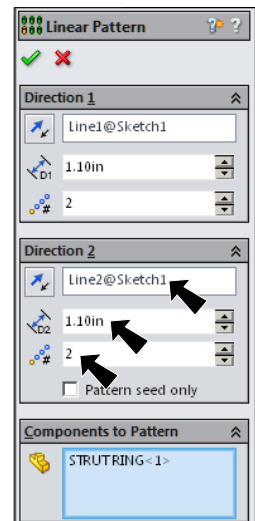


Fig. 7

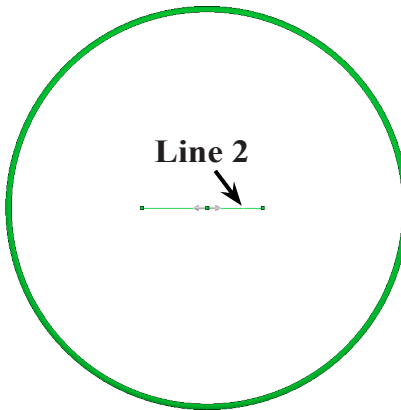
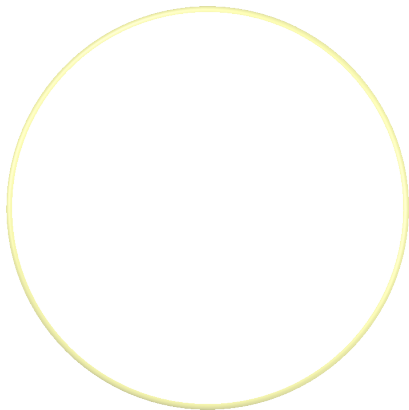
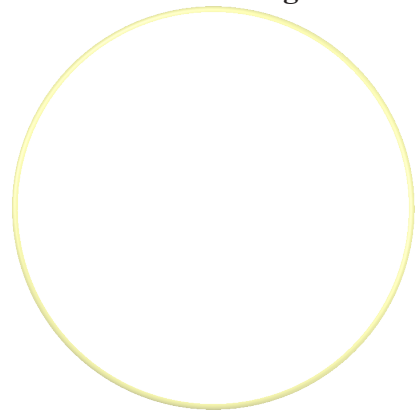



Fig. 8



E. Hide Sketch 1

Step 1. Click **Isometric**  on the Standard Views toolbar. (**Ctrl-7**)

Step 2. **Hide Sketch1**. To hide, click **Sketch1** and **Hide**  on the Context toolbar, **Fig. 9**.

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

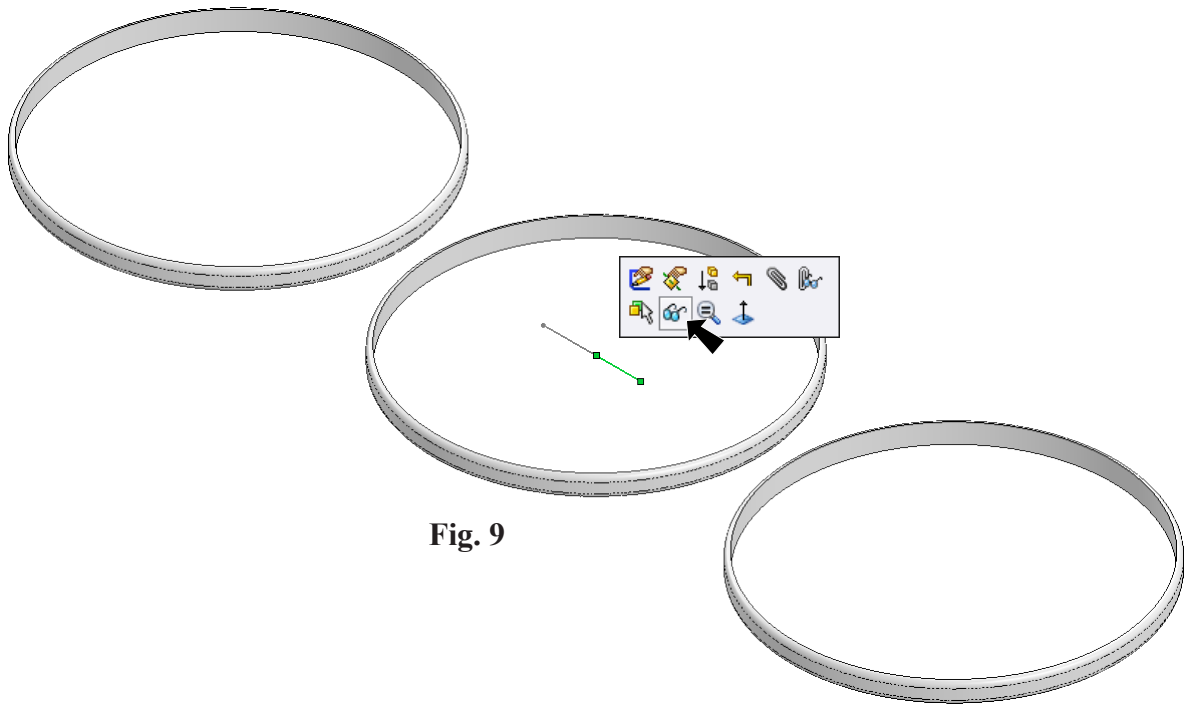


Fig. 9