





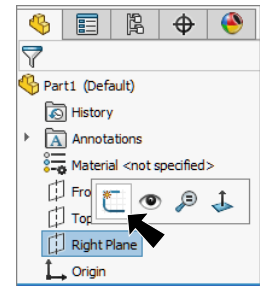
**A. Sketch.**

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

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

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

Step 4. Starting from the Origin  sketch lines working in a clockwise direction, sketching vertical line at Origin last. After releasing the cursor at Origin, click **Construction Geometry**  on the context toolbar, **Fig. 2**.

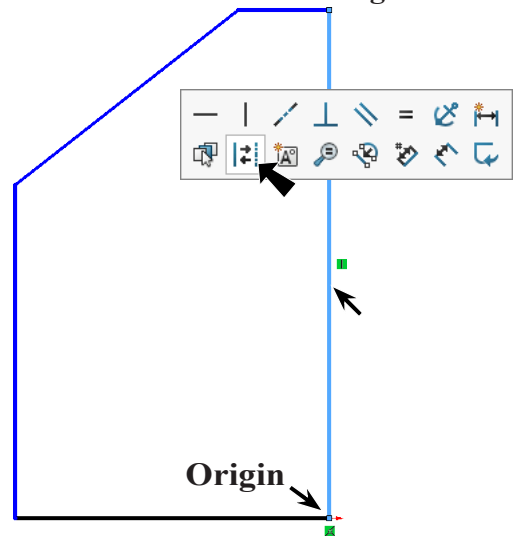


**Fig. 1**

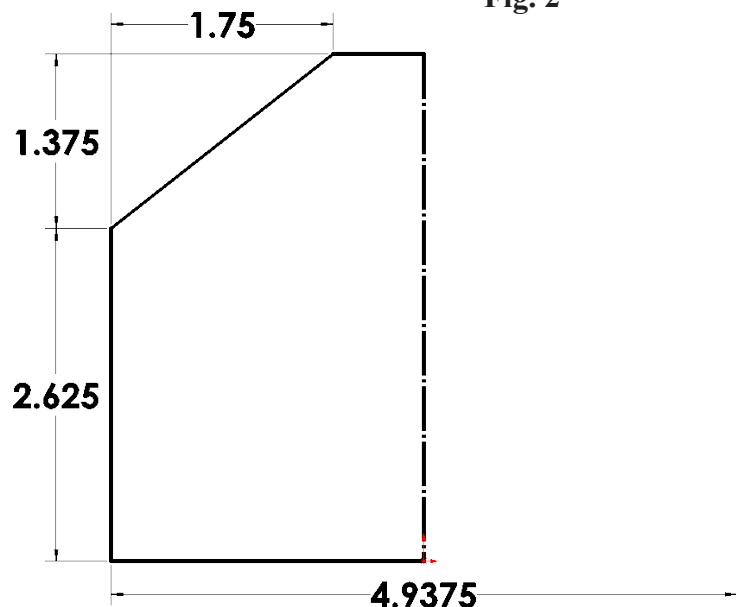
Step 5. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 6. Dimension **double distance** 4.9375. To double distance dimension, click centerline and then vertical line, move the cursor to right of centerline (Origin) and click. Key-in 4.9375 in the Modify box and press ENTER. Add the other dimensions, **Fig. 3**.

Step 7. **Right click graphics area and click Select** from menu to unselect Smart Dimension.




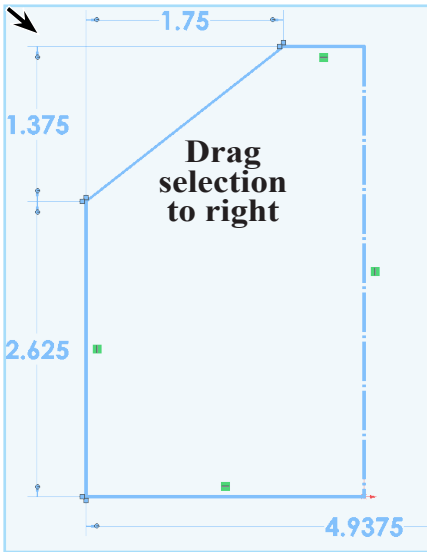
**Fig. 2**



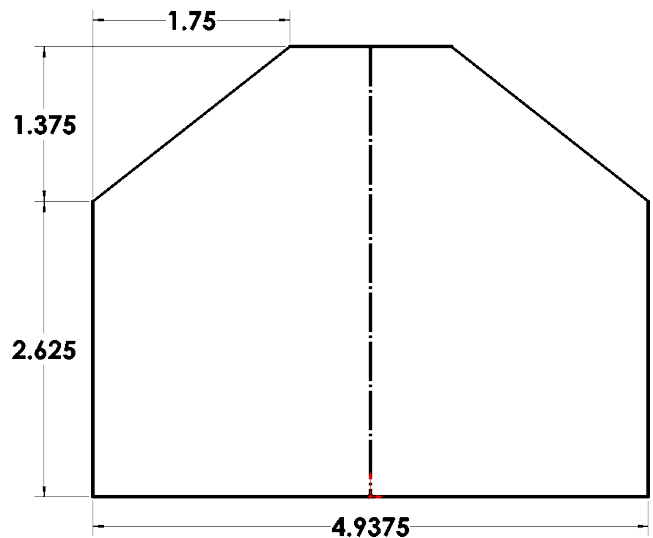
**Fig. 3**

Step 8. Drag a selection around all geometry, **Fig. 4**.

Step 9. Click **Mirror Entities**  **Mirror Entities** on the Sketch toolbar, **Fig. 5**.



**Fig. 4**



**Fig. 5**


## B. Save as "END".

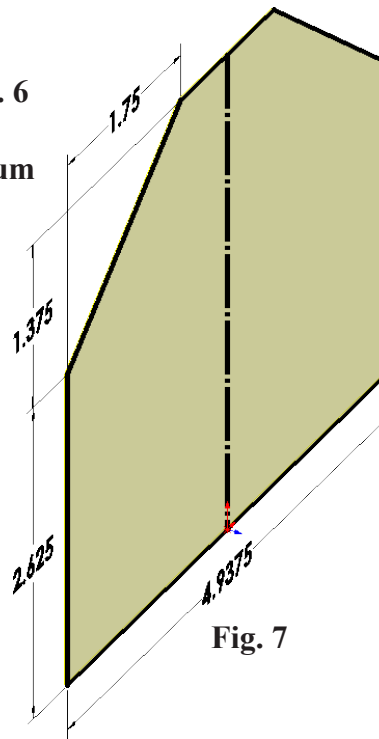
Step 1. Click File Menu > Save As.

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

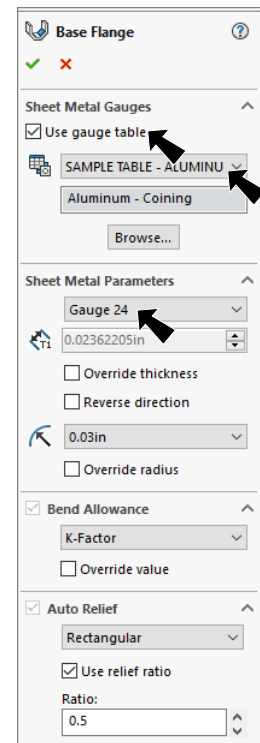
## C. Base Flange.

Step 1. Click **Base Flange/Tab**  on the Sheet Metal toolbar.

Step 2. In the Property Manager set:  
under Sheet Metal Gauges, **Fig. 6**  
check **Use gauge table**  
select **Sample Table - Aluminum**  
under **Sheet Metal Parameters**  
select **Gauge 24**  
click **OK** .



**Fig. 7**



**Fig. 6**

## D. Hem.

Step 1. Click **Hem**  on the Sheet Metal toolbar.

Step 2. In the Hem Property Manager set:

under Edges, **Fig. 8**

click the **3 outside top edges**, **Fig. 9**

**Material Inside** 

under Type and Size

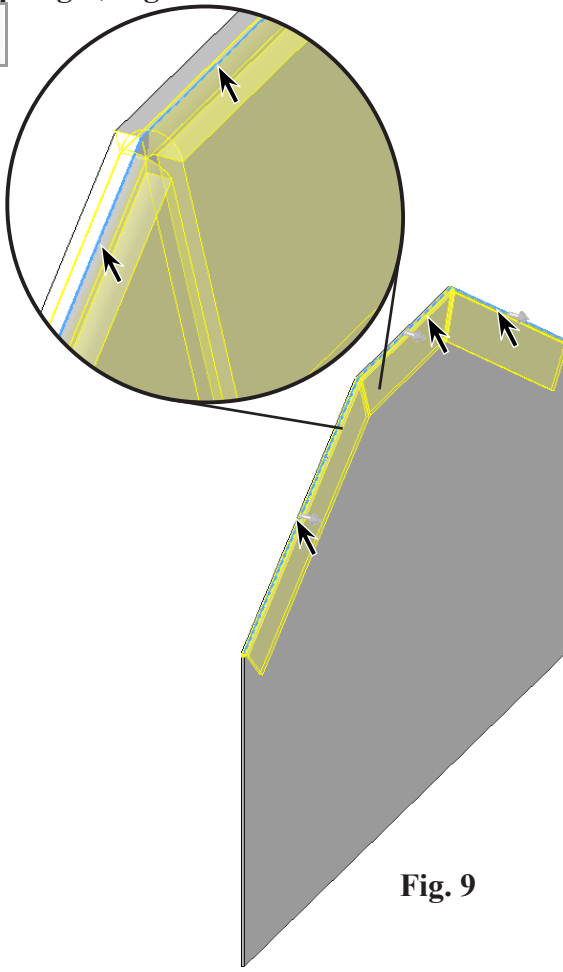
select **Closed** 

**Length**  .375

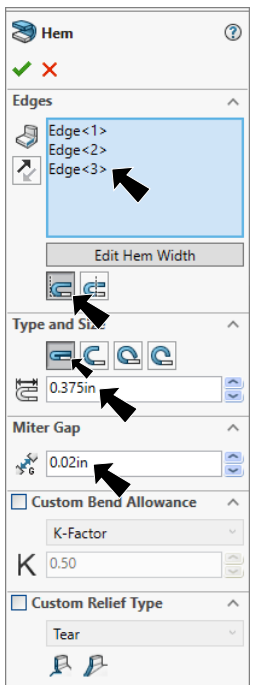
under Miter Gap

**Miter Gap**  .02

click **OK**  .



**Fig. 9**




**Fig. 8**

## E. Chamfer1.

Step 1. Zoom in on **front corner of hem**, Fig. 10. To zoom, place the cursor over the front corner of hem and spin the wheel on mouse back. While spinning the wheel keep cursor on the area.

Step 2. Click **Chamfer**  on the Features toolbar.

Step 3. In the Chamfer Property Manager set: under Chamfer Type, Fig. 11

select **Angle Distance**   
click **corner edge of hem**, Fig. 12  
under Chamfer Parameters

**Distance**  **.05**

**Angle**  **38.157°**

select **Full preview**

The Direction arrow should point up, Fig. 12. If arrow is pointing in wrong direction, check **Flip direction**.

click OK .

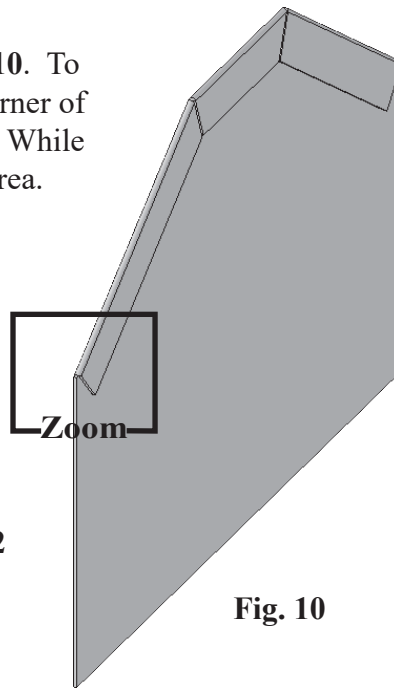


Fig. 10

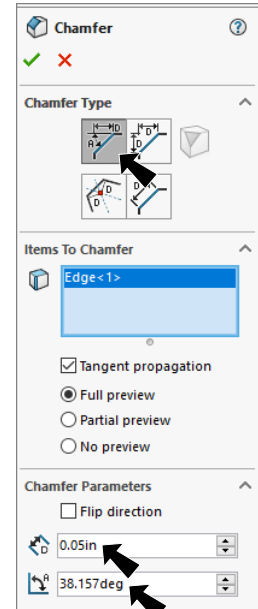


Fig. 11

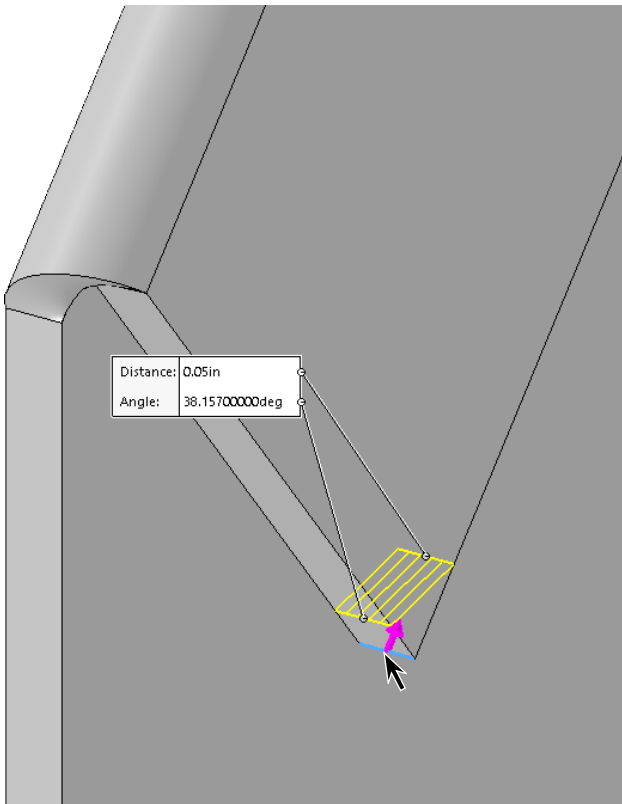


Fig. 12

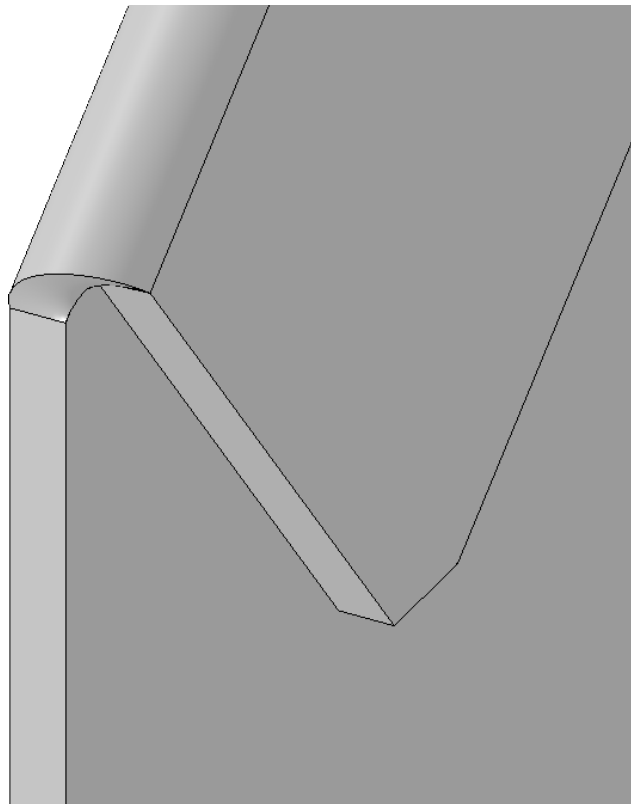


Fig. 13

## F. Chamfer2.

Step 1. Use F key to zoom out and zoom back in on **rear corner of hem**, Fig. 14.

Step 2. Click **Chamfer**  on the Features toolbar.

Step 3. In the Chamfer Property Manager set:  
under Chamfer Type, Fig. 15

select **Angle Distance** 

click **corner edge of rear hem**, Fig. 16  
under Chamfer Parameters

**Distance**  **.349**

**Angle**  **51.843°**

The Direction arrow should point up.

If arrow is pointing in wrong direction, check **Flip direction**.

click OK .

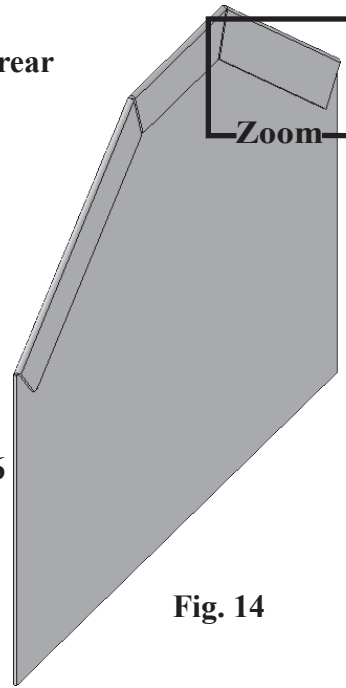


Fig. 14

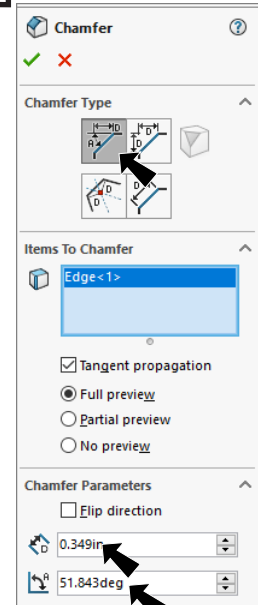


Fig. 15

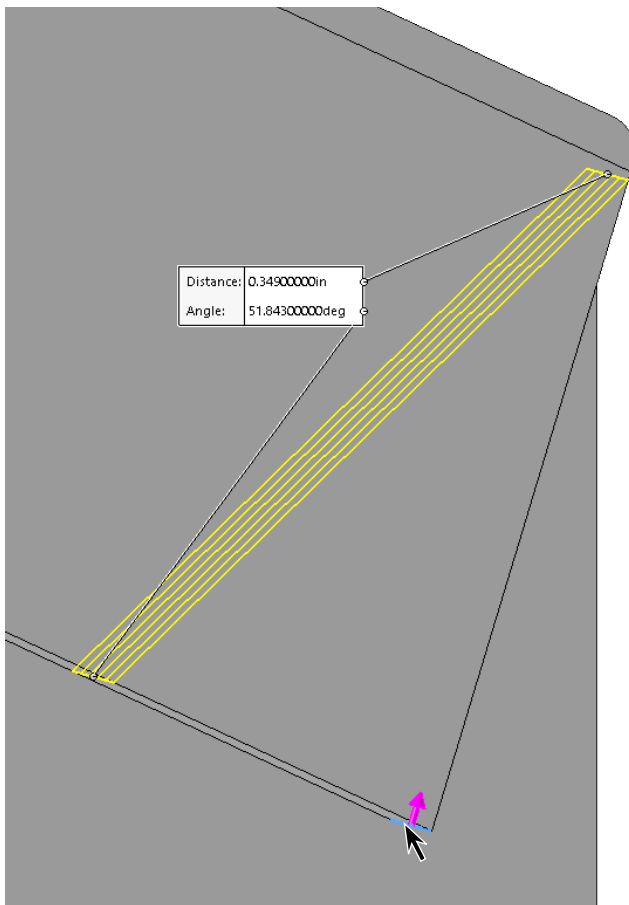


Fig. 16

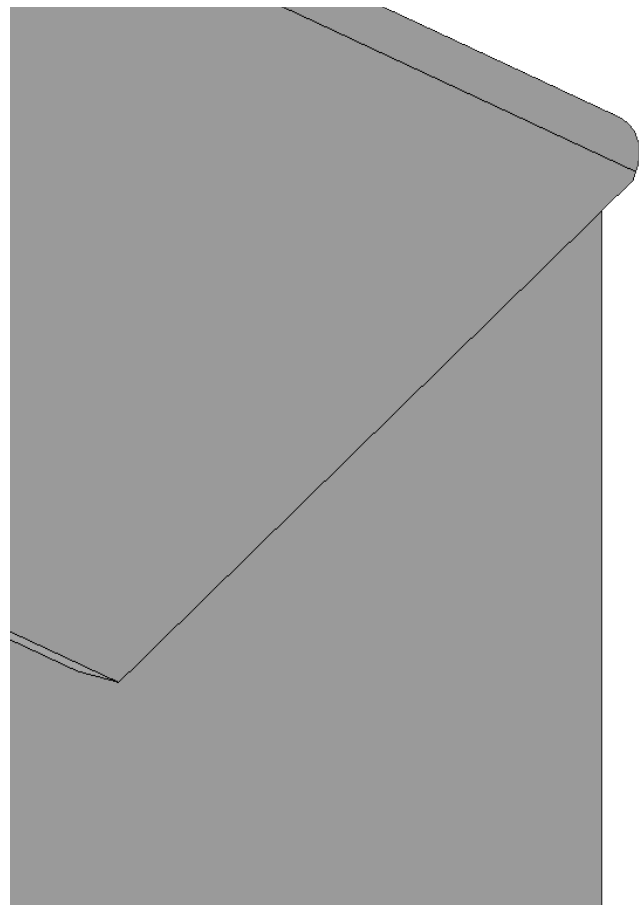





Fig. 17

## G. Appearance Color.

Step 1. Click Zoom to Fit  (F) on the View toolbar.

Step 2. Click the part, click **Appearance Callout**  on the context toolbar and click **END** , Fig. 18.

Step 3. In the Appearances Task pane, expand **Painted** and click **Car**. In the lower pane select **black**, Fig. 19.

Step 4. In the Appearances Property Manager, under **Color**, Fig. 20 set **RGB values**  
**R 196**  
**G 196**  
**B 157**  
click OK .

Step 5. Save. Use **Ctrl-S**.

