





# Rocket 3D Print Engine Hook

## A. Sketch.

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

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

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


Step 4. Starting from the Origin  sketch lines, **Fig. 2**. As you sketch line at bottom of sketch, position cursor to show **Perpendicular**  automatic relation.

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

Step 6. Add dimensions, **Fig. 3**.

Step 7. Click **Sketch Fillet**  on the Sketch toolbar.

Step 8. In the Sketch Fillet Property Manager set: under Fillet Parameters, **Fig. 4**

**Radius**  **.05**  
click 4 corners, **Fig. 5**  
click OK  twice.

## B. Save as "ENGINE HOOK".

Step 1. Click File Menu > Save As.

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

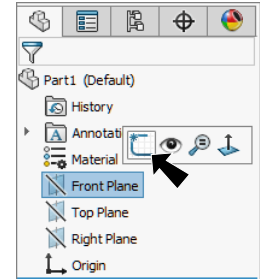
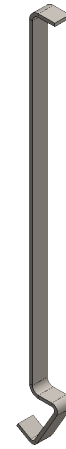


Fig. 1

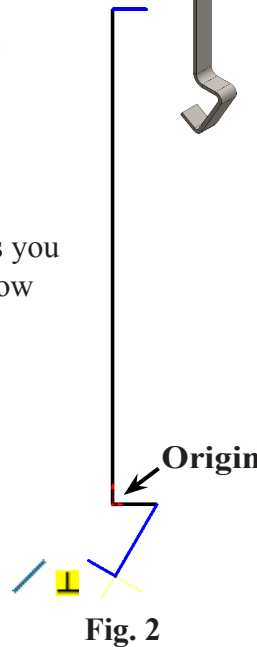


Fig. 2

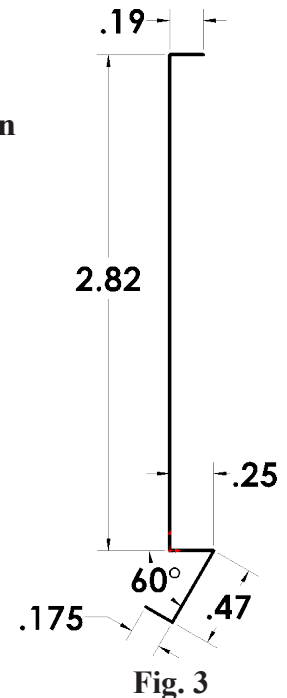


Fig. 3

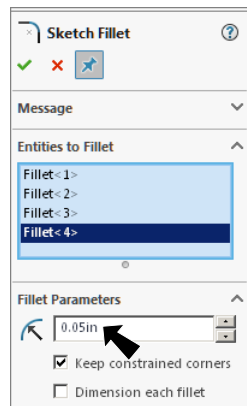


Fig. 4

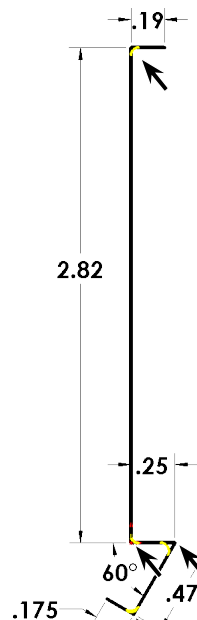


Fig. 5

## C. Sheet Metal.

Step 1. Click Insert Menu > Sheet Metal > Base Flange.

Step 2. In the Property Manager set:  
under Direction 1  
select **Mid Plane**, Fig. 6

**Depth**  **.12**

under Sheet Metal Gauges  
check **Use gauge table**  
select **Sample Table - Aluminum**  
under **Sheet Metal Parameters**  
select **Gauge 22**

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

The **sheet metal** should be position on **left of sketch**, Fig. 7. If in opposite direction check **Reverse direction** in the Property Manager, Fig. 6.

Sketch (black line) has to be on right of sheet metal (green part)

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

click OK .

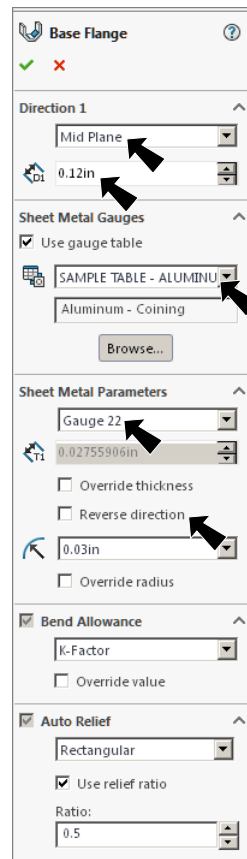


Fig. 6

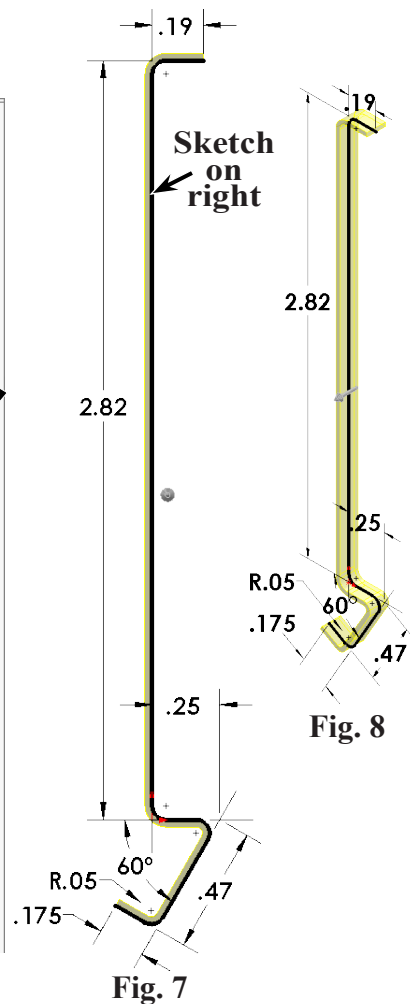


Fig. 8

Fig. 7

## D. Material Steel.

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

Step 2. Expand **Steel** in the material tree and select **AISI 1010 Steel**. Click **Apply** and **Close**.

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

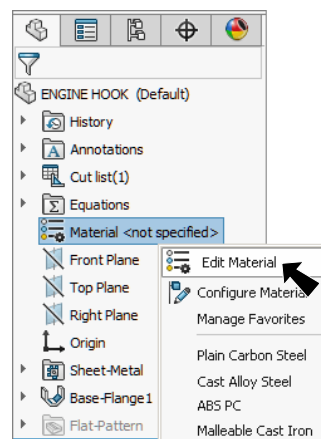


Fig. 9

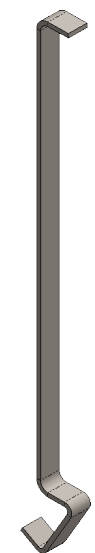


Fig. 10