





A. Sketch Centerline.

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

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

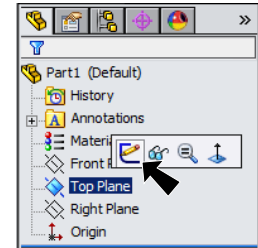




Fig. 1

Step 3. Click **Centerline**  in the **Line flyout**  on the Sketch toolbar.

Step 4. Draw a **vertical centerline** down from Origin , **Fig. 2**.

Origin 


B. Save as "H STAB".

Step 1. Click File Menu > Save As.

Step 2. Key-in **H STAB** for filename and press ENTER.

C. Lines.

Step 1. Click **Line**  (L) on the Sketch toolbar.

Step 2. Draw **4 lines** starting at Origin , **Fig. 3**. **Do not** allow inferencing lines (parallel, perpendicular, horizontal or vertical), the dotted line that appears when you draw the lines.

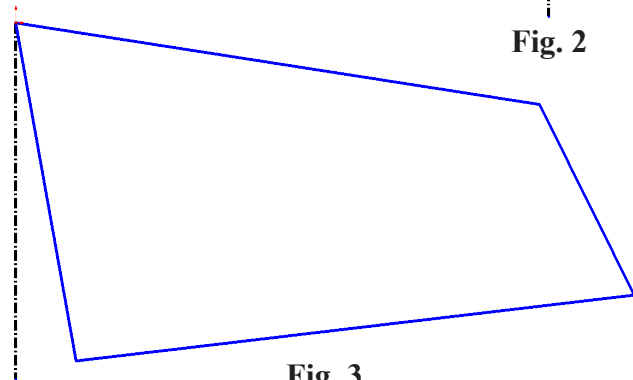



Fig. 2

Fig. 3

Step 3. Click **Smart Dimension**  (S) on the Sketch toolbar.

Step 4. Add dimensions, **Fig. 4**.

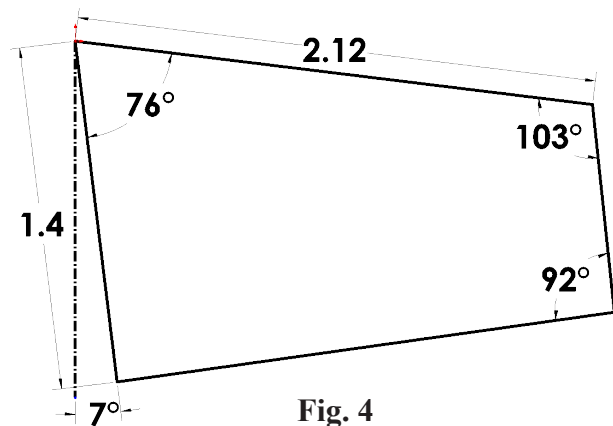



Fig. 4



D. Sketch Fillets.

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

Step 2. In the Sketch Fillet Property Manager set: under Fillet Parameters, Fig. 5

Radius  .15
click **top right corner**, Fig. 6

click OK 

Radius  .17,
Fig. 7
click **bottom right corner**, Fig. 8
click OK 
twice.

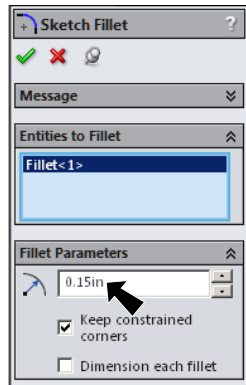


Fig. 5

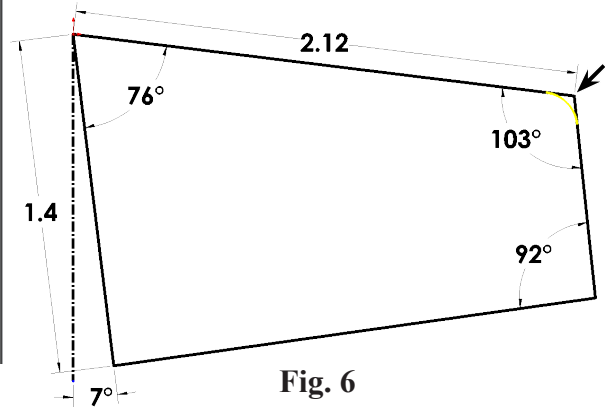


Fig. 6

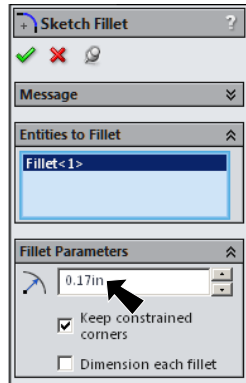


Fig. 7

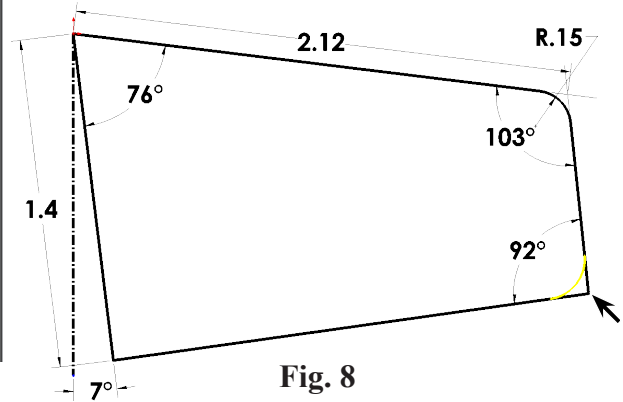
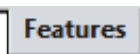


Fig. 8

E. Extrude.

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

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

Step 3. In the Property Manager set:
under Direction 1, Fig. 9
End Condition **Mid Plane**

Depth  D1 .1
click OK 

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

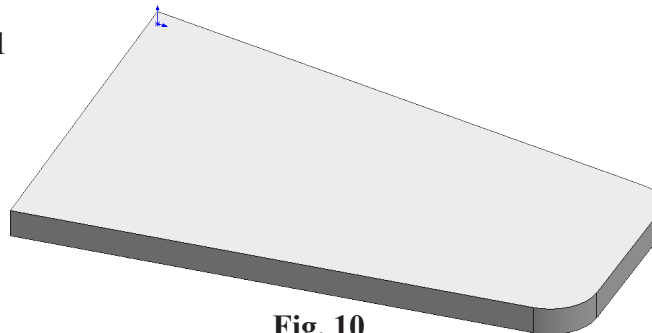


Fig. 10

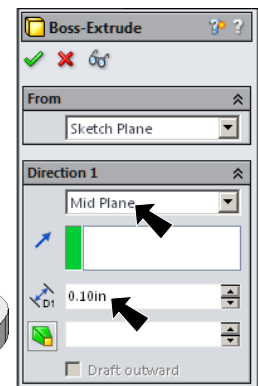
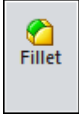


Fig. 9

F. Fillet Leading, Root and Trailing Edges.

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

Step 2. In the Fillet Property Manager:
select **Manual**, **Fig. 11**
under Fillet Type

select **Full Round Fillet** 

in **Side Face Set 1**  box
click **top face**, **Fig. 12**

Tip: before moving cursor, right click to
move selection to next selection box.

 **Center Face Set**  box, **Fig. 11**
right click leading edge face and
select **Select Tangency** from menu,
Fig. 13

Before moving cursor, right click to
move selection to next selection box

Rotate view to view **bottom**, hold
down middle mouse button and
drag to **rotate view**, **Fig. 14**.

 **Side Face Set 2**  box
click **bottom face**, **Fig. 14**
click **OK** .

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

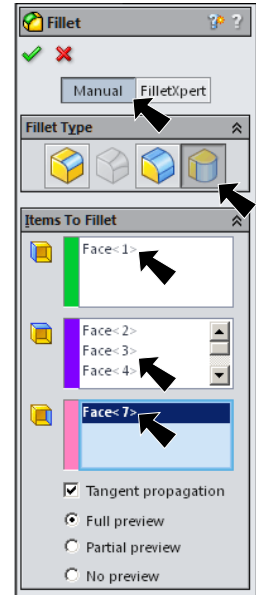


Fig. 11

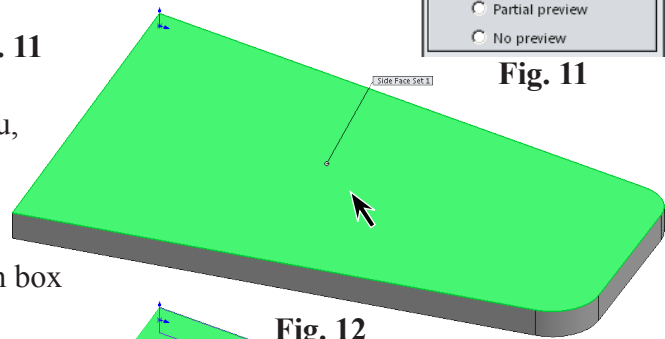


Fig. 12

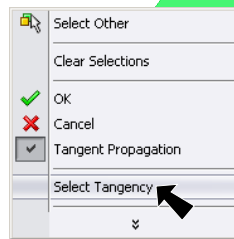


Fig. 13

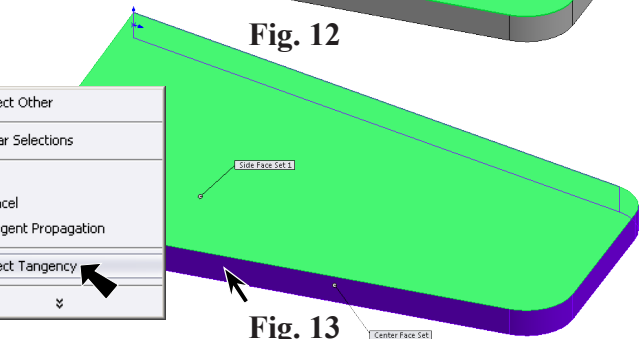


Fig. 14

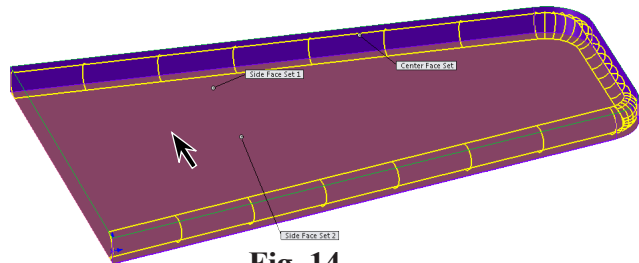



Fig. 15

G. Material PS HI (Polystyrene).

- Step 1. Right click **Material**  in the Feature Manager and click **Edit Material**, Fig. 16.
- Step 2. **Expand Plastics** (click the +) in the material tree and select **PS HI**. Click **Apply** and **Close**.

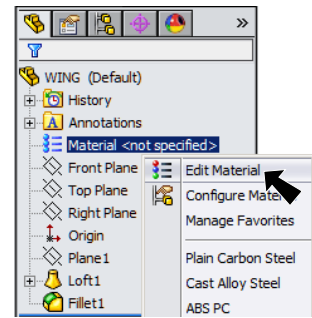






Fig. 16

H. Appearance Color.

- Step 1. Click **Isometric**  on the Standard Views toolbar. (Ctrl-7)
- Step 2. Click the part, expand **Appearance Callout**  on the Context toolbar and click **H STAB** , Fig. 17.
- Step 3. In the Appearances Property Manager, under **Color**, Fig. 18
click **White** swatch
click **OK** .
- Step 4. Save. Use **Ctrl-S**.

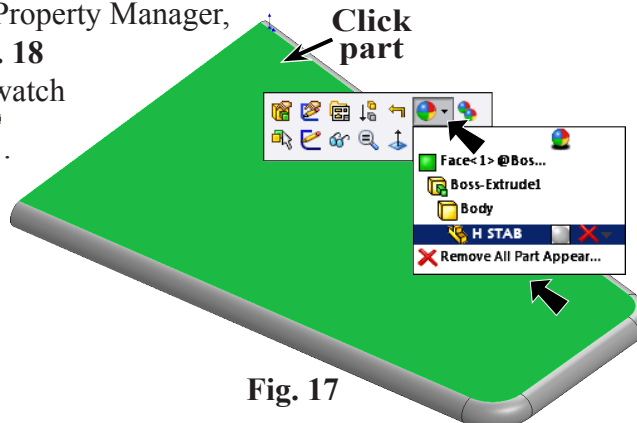


Fig. 17

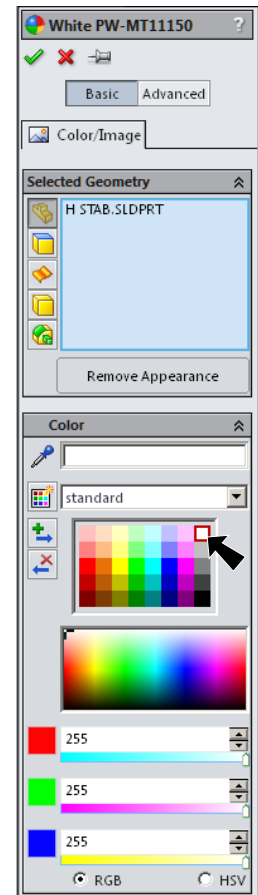


Fig. 18

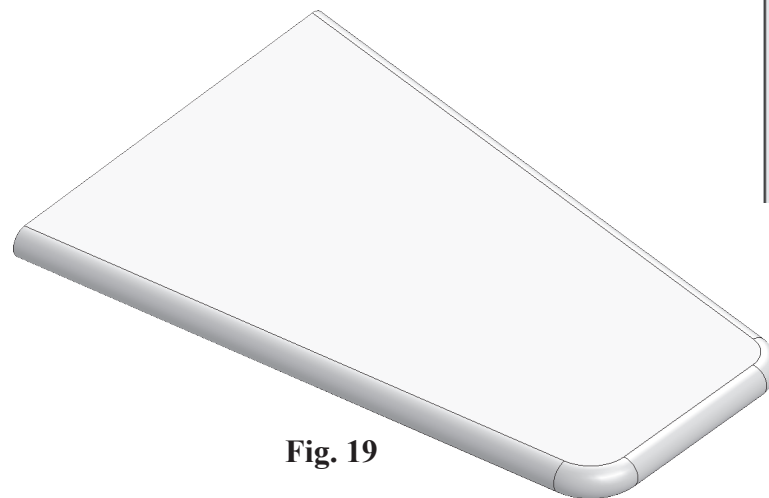


Fig. 19