How to Create a Simple Box

1. Click New, Click Part and OK.

2. Click on Top Plane and click Sketch.

3. Click Rectangle, sketch a rectangle start from origin.

4. Click Smart Dimension, click side edge and click top edge to dimension it as 1.0in x 1.0in.

5. Click Features>Extruded Boss/Base

Taken from www.solidworkstutorials.com
set **D1** as **1.0in**

and click ✓.

6. It’s done. Simple Right?
How to Create a Simple Plate

1. Click New (File>New), click Part, OK.

2. Click Option (Tools>Option…), select Document Properties tab. Select Units, under Unit System select IPS (inch, pound, second) OK.

3. Select Top Plane, from lower left menu select Normal To.
4. Click Sketch in Command Manager, click Rectangle. As you can see on upper right corner sketch icon appear indicate that you’re on sketch mode.

5. Pick Origin point as starting point, drag to right hand side no need to be exact the size will define in later step. Press keyboard ESC to end rectangle sketch.

Note: There is two type line generated by your sketching, the one with black line and blue line. Black line is line that fully defined and blue line is under defined.

6. Define sketch with dimension. Click Smart Dimension, and start dimensioning pick vertical line and set to 2.00in, pick horizontal line and set to 2.00 in. Press keyboard ESC to end smart dimension.
7. Build feature from sketch, click Features and activate features menu. Click Extruded Boss/Base and set D1 to 0.5in.

8. Click front top face, click Normal To. Activate sketch menu by click Sketch.
and select Circle. Sketch 4 circle at four edges.

9. Define new circle sketch, click Smart Dimension, set diameter circle to 0.2in. Select distance for edge set to 0.3in.

10. Click Circle and sketch one circle at center.
11. Define new circle sketch, click Smart Dimension, set diameter circle to 1.0in. Select distance for edge set to 1.0in.

12. For cut click Features, click Extruded Cut, under Direction 1, Through All and done.
How to Create an Allen Key

In this solidworks tutorial, you will create simple allen key.

1. Click **New**, Click **Part**, **Part** OK.

2. Click **Front Plane** and click on **Sketch**.

3. Click **Line**, sketch a L shape.
4. Click **Smart Dimension**, and dimension sketch as 2.5” and 1”.

5. Click **Sketch Fillet**, add 0.3” fillet at L corner.

6. Exit sketch, click on **Top Plane** and click **Sketch**.
7. Click on **Sketch2** and click **Normal To**.

8. Click **Polygon**, sketch a polygon at origin.

9. Click **Smart Dimension**, and dimension sketch diameter to **0.15”**.

10. **Exit sketch**, and click on **Isometric view**.
11. Click **Features>Swept Boss/Base**, for profile click on **Sketch2** and for path click on **Sketch1** and OK.

You’re done!