

Parts List - Add a Custom Part

In This Exercise

This Skill Builder demonstrates how to add a custom part to a parts list.

Accounting for Parts Outside the BOM

The requirement: Add a part which is not accounted for in the assembly bill of materials to the drawing parts list.

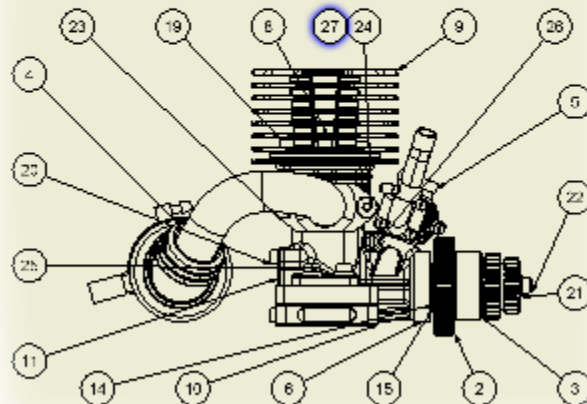
The solution: Custom Part.

A custom part is a part that you add manually to the drawing parts list. By definition, a custom part exists outside the assembly BOM. The following example uses an engine assembly where an anti-seize compound is required for the exhaust system mounting screws. There is no need for the compound to appear as a component in the BOM. It is only necessary to account for it in the parts list.

Set the current project to **samples**.

Browse to **Assemblies > Engine** and open **Engine.iam**.

		40 - 104	Fast Cap Screw
23	3	ANSI B18.3.3 - 4 - 40	Hex Machine Screw Nut UNC
24	2	ANSI B18.3 - No. 7 - 40 - 1 1/8	Hexagon Socket Head Cap Screw
25	4	ANSI B18.3 - No. 4 - 40 - 3/8	Hexagon Socket Head Cap Screw
26	1	Carb Lock	
27	1	ACME pin 2345-03	ACME Seize Nut



Click the Look At tool, and then select the face of the bracket, as shown.

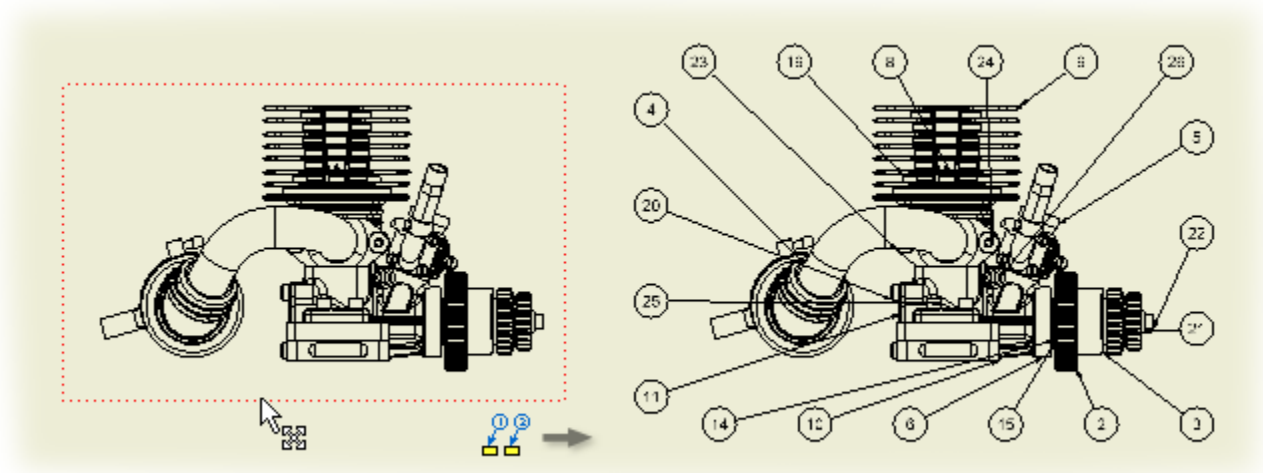


Open a new drawing.

Click the Base View tool.

Select Current in the Orientation field of the Drawing View dialog box. Place the view.

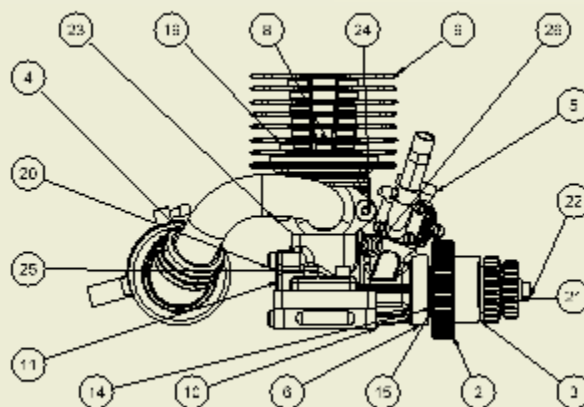
Select the view, and then click the Balloon All tool.



Select the Drawing Annotation Panel, and then click the Parts List tool.

Select the view, accept the default settings in the Parts List - Item Numbering dialog box, and then place the parts list.

17	3	Clutch Spring	
18	3	Clutch Spring	
19	4	DIN 912 - M2.5 x 12	Cylinder Head Cap Screw
20	4	DIN 912 - M2.5 x 5	Cylinder Head Cap Screw
21	7	ANSI B7.22.1 - No. 1 - narrow - Type E	Washer B
22	1	ANSI B7.3 - No. 4 - 40 - 1/4	Hexagon Socket Head Cap Screw
23	3	ANSI B7.3.3 - 4 - 40	Hex Machine Screw Nut UNC
24	2	ANSI B7.3 - No. 7 - 40 - 1 1/8	Hexagon Socket Head Cap Screw
25	4	ANSI B7.3 - No. 4 - 40 - 3/8	Hexagon Socket Head Cap Screw
26	1	Carb Lock	



Select the parts list, right-click, and then select Edit Parts List.

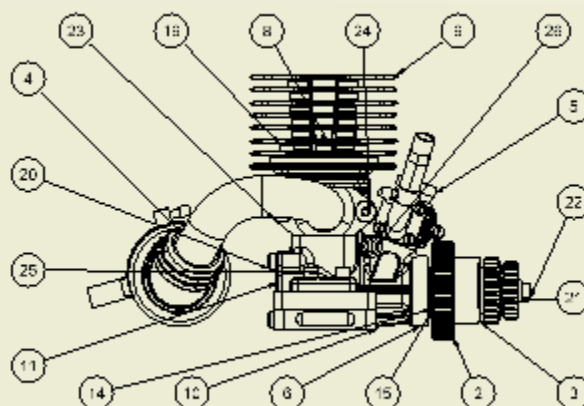
In the Edit Parts List dialog box, scroll to the bottom of the list.

Select the last row or a cell within the last row, right-click, and then select Insert Custom Part.

Enter data in the PART NUMBER and DESCRIPTION cells of the new row.

Click OK. The row for the custom part is added to the parts list.

18	3	Clutch Spring	
19	4	DIN 912 - M2.5 x 12	Cylinder Head Cap Screw
20	4	DIN 912 - M2.5 x 5	Cylinder Head Cap Screw
21	7	ANSI B7.22.1 - No. 1 - narrow - Type E	Washer B
22	1	ANSI B7.3 - No. 4 - 40 - 1/4	Hexagon Socket Head Cap Screw
23	3	ANSI B7.3.3 - 4 - 40	Hex Machine Screw Nut UNC
24	2	ANSI B7.3 - No. 7 - 40 - 1 1/8	Hexagon Socket Head Cap Screw
25	4	ANSI B7.3 - No. 4 - 40 - 3/8	Hexagon Socket Head Cap Screw
26	1	Carb Lock	
27	1	ACME pin 2345-03	ACME Setze Not



Next, we'll add a balloon for the custom part to the drawing view.

Since the custom part will be associated with item 24, the mounting screws for the exhaust system, we'll attach the balloon for the custom part to the balloon for item 24.

Select balloon 24, right-click, and then select Attach Custom Balloon.

Select the custom part row in the Custom Part dialog box by selecting the empty cell to the left of the row. Click OK.

Move the custom balloon to the desired position. Click to place.

18	3	Clutch Spring	
19	4	DIN 912 - M2.5 x 12	Cylinder Head Cap Screw
20	4	DIN 912 - M2.5 x 5	Cylinder Head Cap Screw
21	7	ANSI B7.6.22.1 - No. 1 - narrow - Type B	Washer B
22	1	ANSI B7.6.3 - No. 4 - 40 - 1/4	Hexagon Socket Head Cap Screw
23	3	ANSI B7.6.3.3 - 4 - 40	Hex Machine Screw Nut UNC
24	2	ANSI B7.6.3 - No. 7 - 40 - 1 1/8	Hexagon Socket Head Cap Screw
25	4	ANSI B7.6.3 - No. 4 - 40 - 3/8	Hexagon Socket Head Cap Screw
26	1	Carb Lock	
27	1	ACME pin *2345-03	ACME Setze Not

