

## Exercise 13 – Knuckle Joint

### Section 6 – Drawings, Suggested Outline: Beginner to Certification



#### Summary:

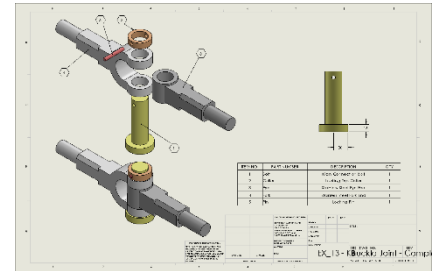
In this exercise, you'll add balloons to an exploded view in a drawing. Then a Parts List will be added to the drawing that matches the balloons in the exploded view. This Parts List will be customized to include a description of each part used in the assembly. Finally, the Bolt component's geometry will be updated by modifying a dimension in the drawing.

#### Reference Lessons:

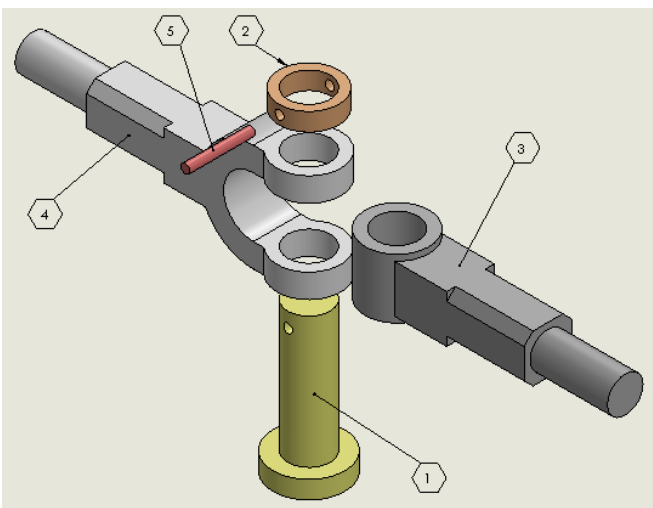
- [Associativity](#)
- [Bill of Materials](#)
- [Balloons](#)

#### Instructions:

1. Download and unzip the files found [here](#).
2. Open the SOLIDWORKS drawing file "Knuckle Joint.slddrw".



3. Add balloons to the exploded view, and create the Bill of Materials as shown in the images below. Make sure the balloons and Parts List matches exactly.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Bolt	Main Connection Bolt	1
2	Collar	Locking Top Collar	1
3	Eye	Stainless Steel Eye End	1
4	Fork	Stainless Steel Fork End	1
5	Pin	Locking Pin	1

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4. Adjust the dimension in the drawing so that the radius of the Bolt changes from 25 mm to 30 mm.

