

Reference Coordinate Systems

User Tutorial for Reference Coordinate Systems

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To add a reference coordinate-system to a component you will need to first open the component you want to use as your default. In this example we are using the Damper_10 component Next, bring in reference coordinate system object from the part browser. Figure 1 shows the reference coordinate system in the part browser which is on the left of the screen by default.

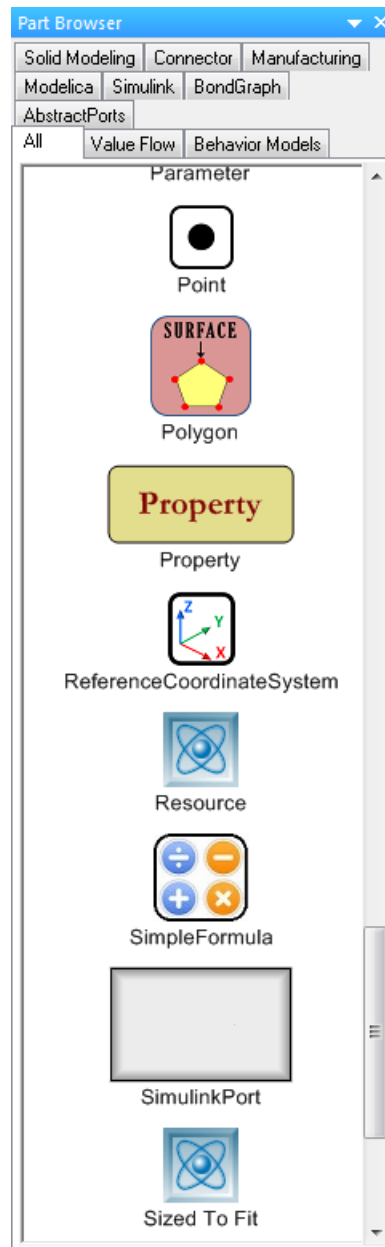


Figure 1

Drag the reference coordinate system object into the component editing space. Figure 2 shows an example with the Damper_10 model.

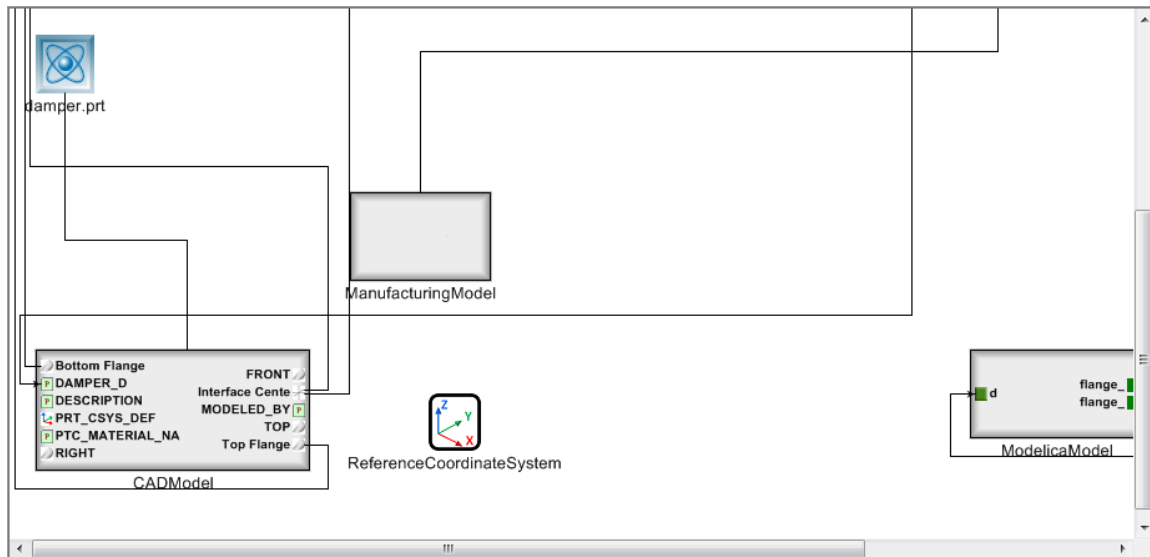


Figure 2

Afterwards, connect the reference coordinate system to a coordinate system port on the CADModel block. You are done making modifications to the component model and can begin using it in your design.

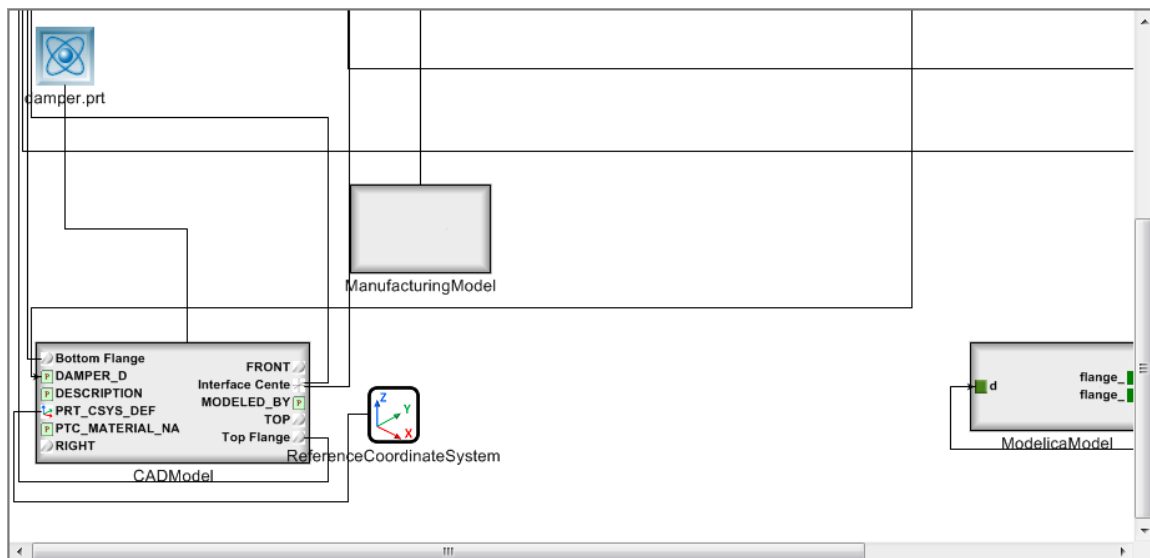


Figure 3

Once you have opened your design, drag in another reference coordinate system to your component assembly. After you have done this, connect the reference coordinate system as shown in Figure 4.

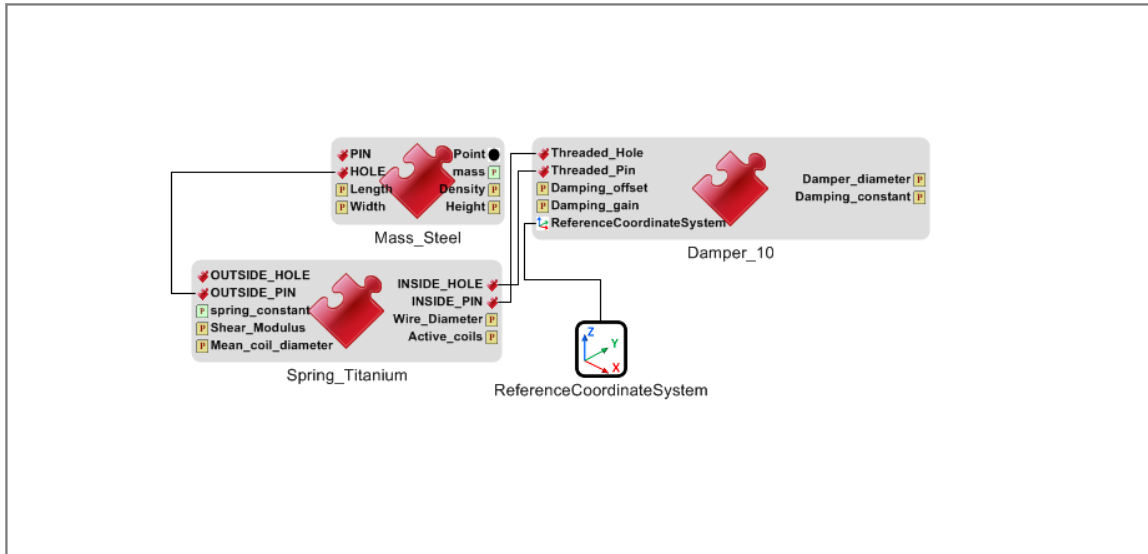


Figure 4

When you make this connection, the Select Connection type window will appear. Choose the **RefCoordSystem2RefCoordSystem** option and click OK.

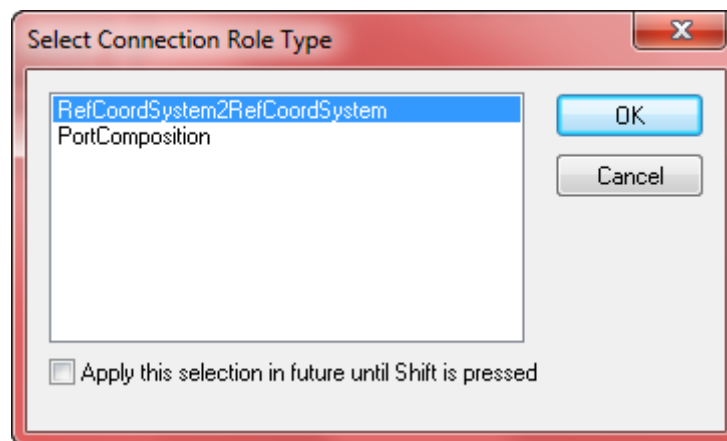


Figure 5

After you are done, your assembly will always have the referenced coordinate model assembled first in the design. Figure 6 shows an example where Spring_Titanium and Mass_Steel were in the first design with Damper_10. The model was then opened in Creo using Meta Link.

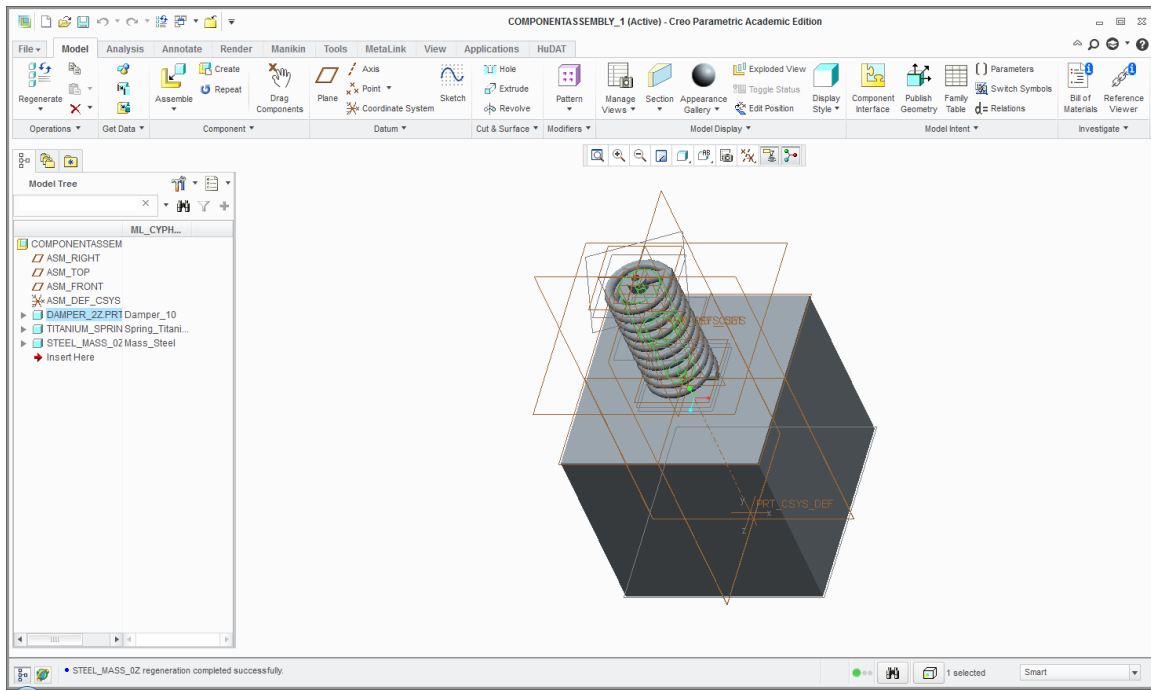


Figure 6

If you have multiple levels of hierarchy, you will need to connect a reference coordinate system at the top level of your design through the model to the component reference you want to use as your initial component.