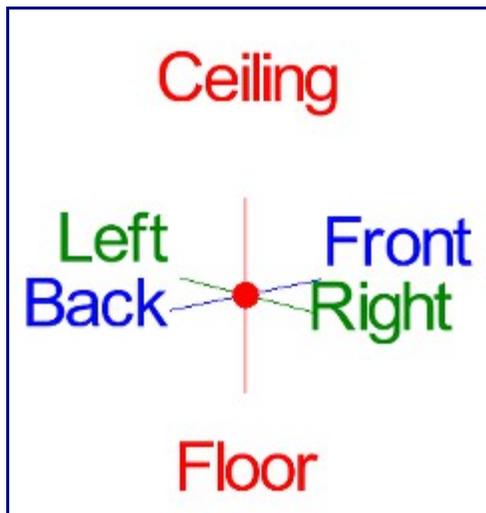


Cutting Tutorial (Advanced)

In this tutorial you will create cutting sleeves for complex part intersections. It is recommended that you complete the basic [Cutting Tutorial](#) before starting this one.

First we need to create a few intersecting parts to cut.

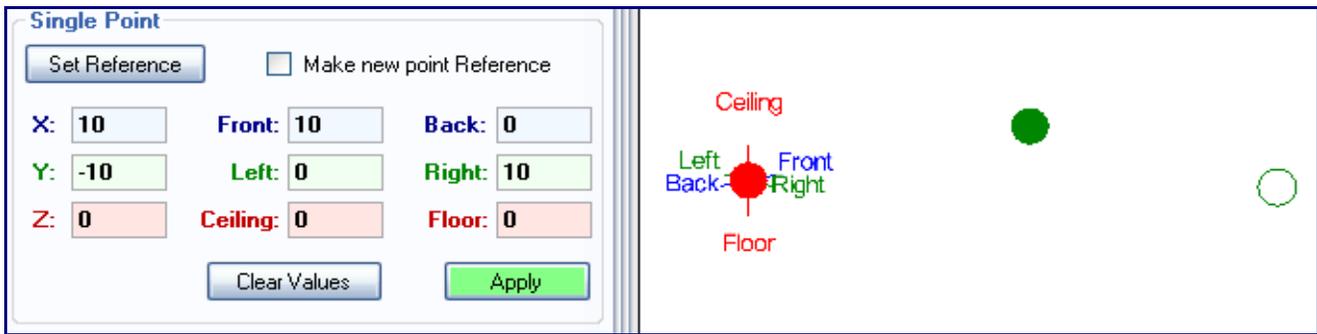
Go to the PickPoints tab. Click on the Set Reference button and click on the point at the center of the Tri-Star.



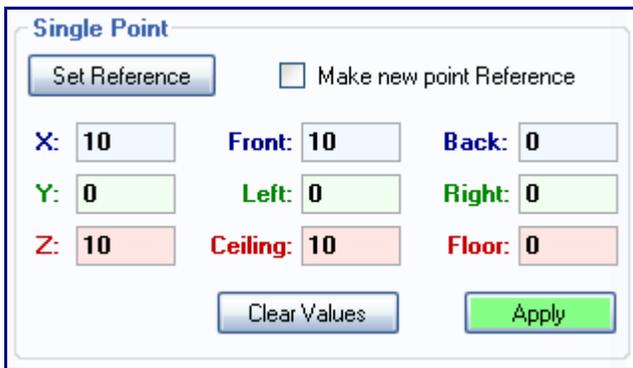
Enter 10 in the Front field and click Apply.

Single Point					
<input type="button" value="Set Reference"/>		<input type="checkbox"/> Make new point Reference			
X: <input type="text" value="10"/>	Front: <input type="text" value="10"/>	Back: <input type="text" value="0"/>			
Y: <input type="text" value="0"/>	Left: <input type="text" value="0"/>	Right: <input type="text" value="0"/>			
Z: <input type="text" value="0"/>	Ceiling: <input type="text" value="0"/>	Floor: <input type="text" value="0"/>			
<input type="button" value="Clear Values"/>		<input type="button" value="Apply"/>			

Leave 10 in the Front field and enter 10 in the Right field. Click the Apply button.

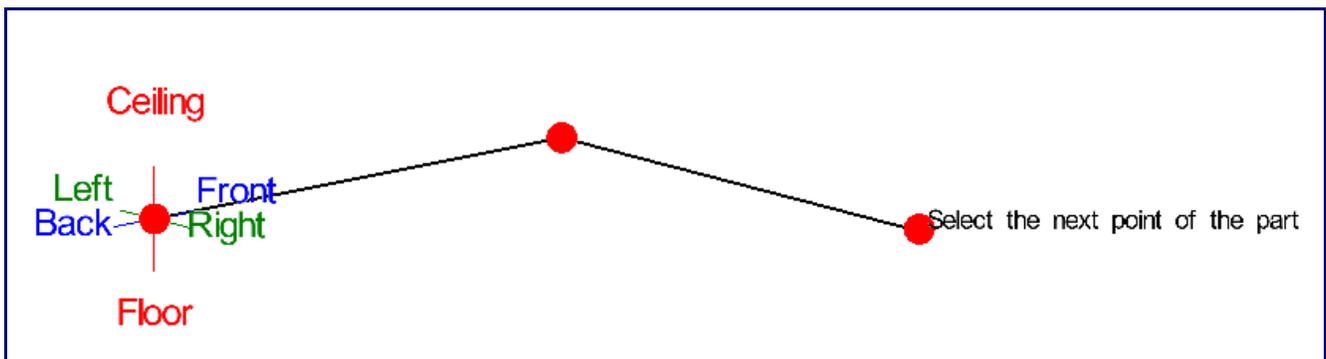


Click the Clear Values button. Enter 10 in the Front field and 10 in the Ceiling field. Click the Apply button.



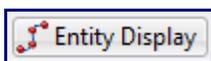
Go to the Main tab. Select a Die and Material in the Die and Material area. Click the Bent Part button. This part will only have 1 bend so click the OK button in the Number of Bends window.

Click the point at the center of the Tri-Star, followed by the first two points we made in the order that we made them.

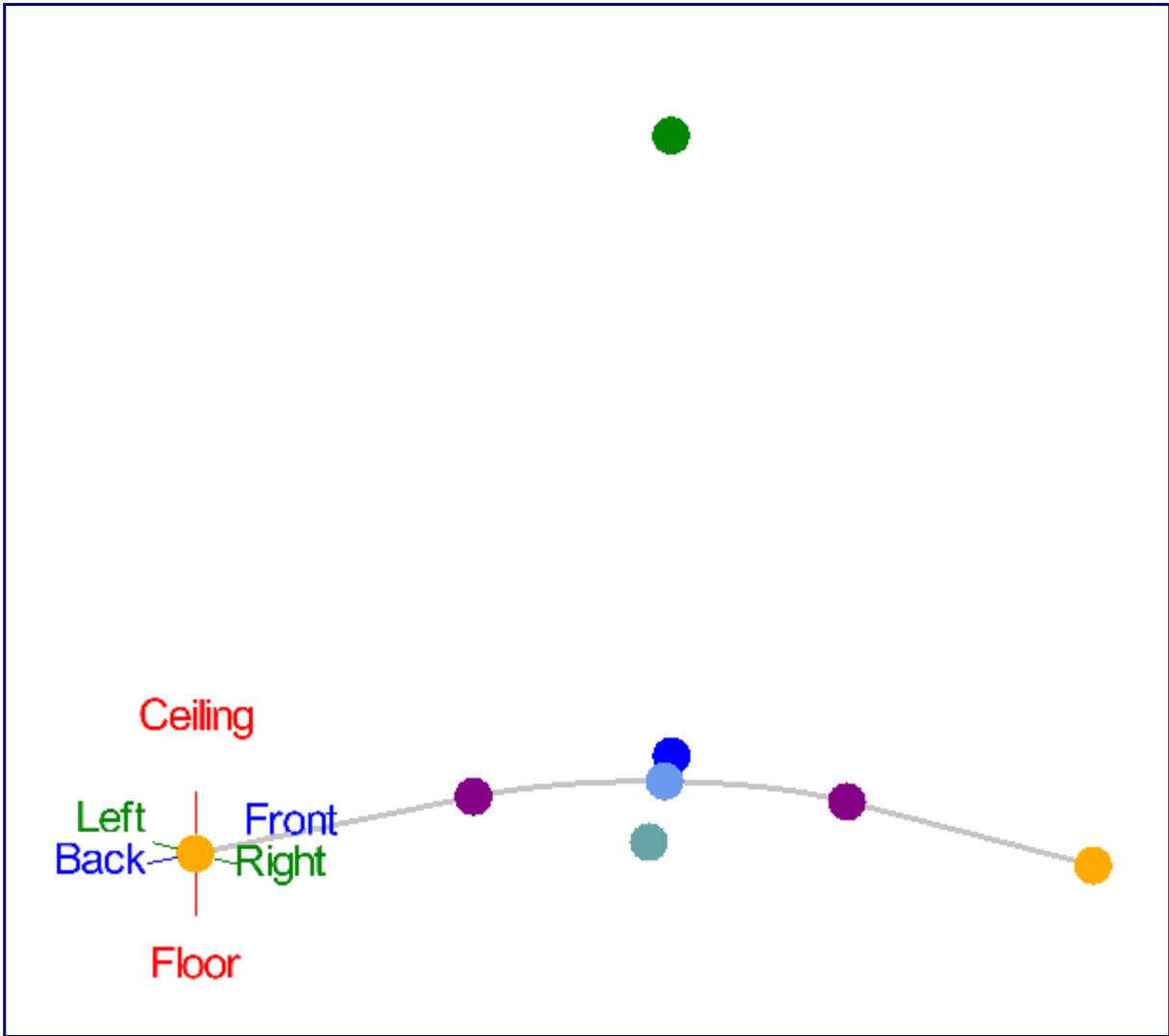


Click the OK button in the Part Name window.

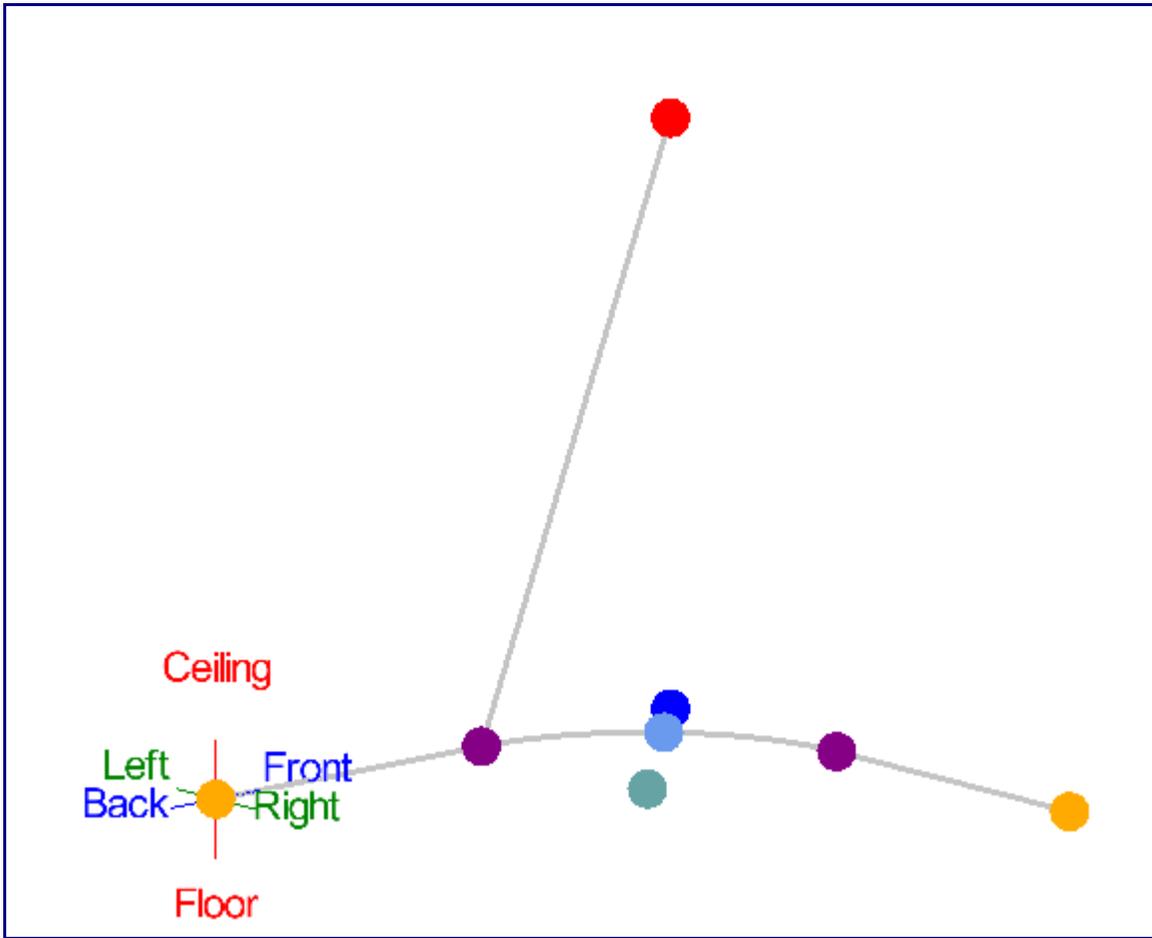
Click the Entity Display button in the tool bar.



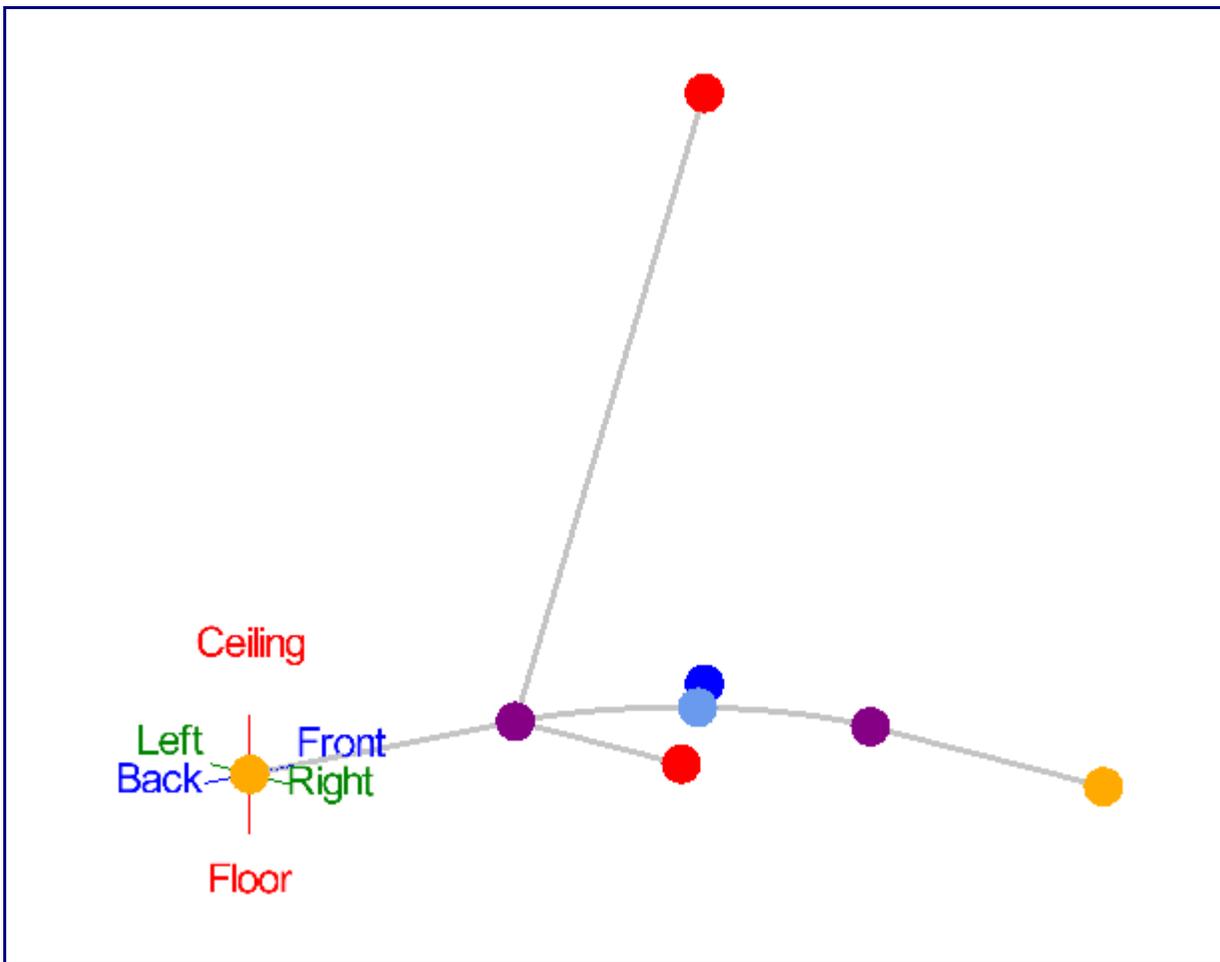
Click the Display All button, then click the Close button in the PickPoint and Part Display window (or simply close this window).



Click the Straight Part button. Click the top point, followed by the purple point on the left.



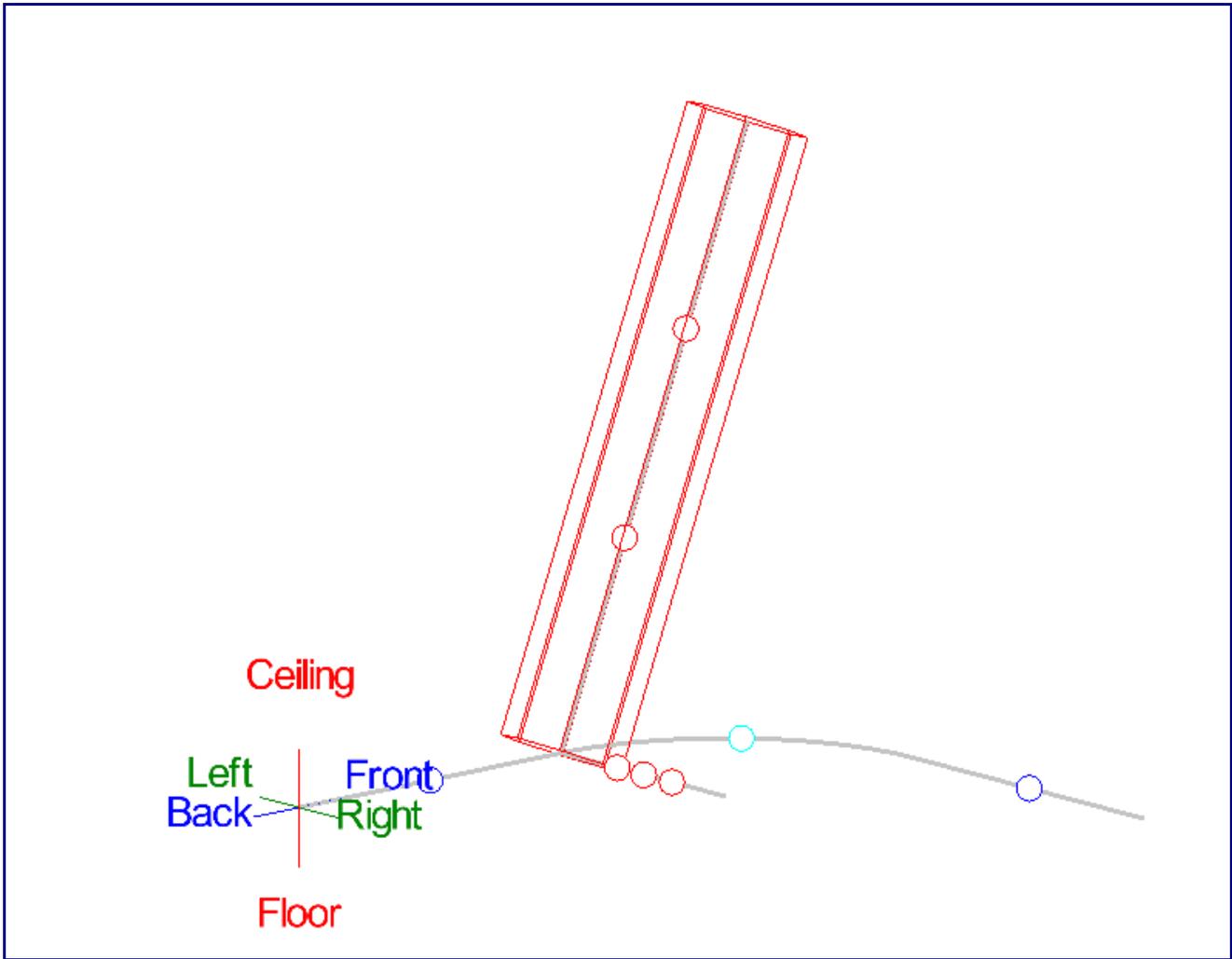
Click the lowest down light blue colored point on the display window, followed by the left purple point.



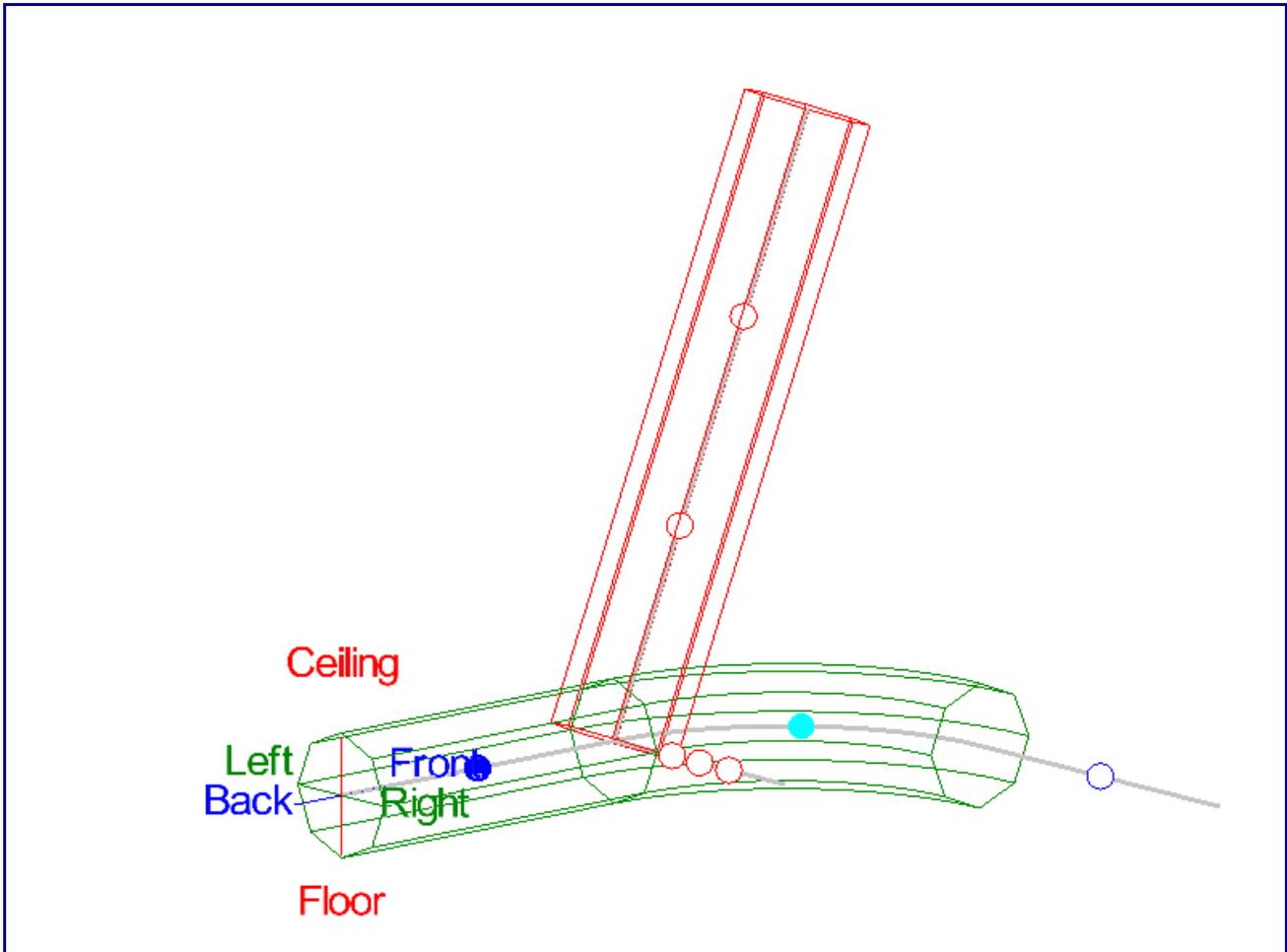
Go to the Cutting tab.

Click the New Cut button.

When you are placing cuts, you must first select the section of tube that you want to cut, then any tubes that the first tube should be cut to. In our project we have a bent part, a long straight part, and a short straight part. You should see a few points in the assembly project. These points are what you click in order to select a tube. If a tube has two points, always click the point that is closer to the side of the tube you are cutting. Start by clicking on the lower point of the long straight part to select it as the part to be cut.

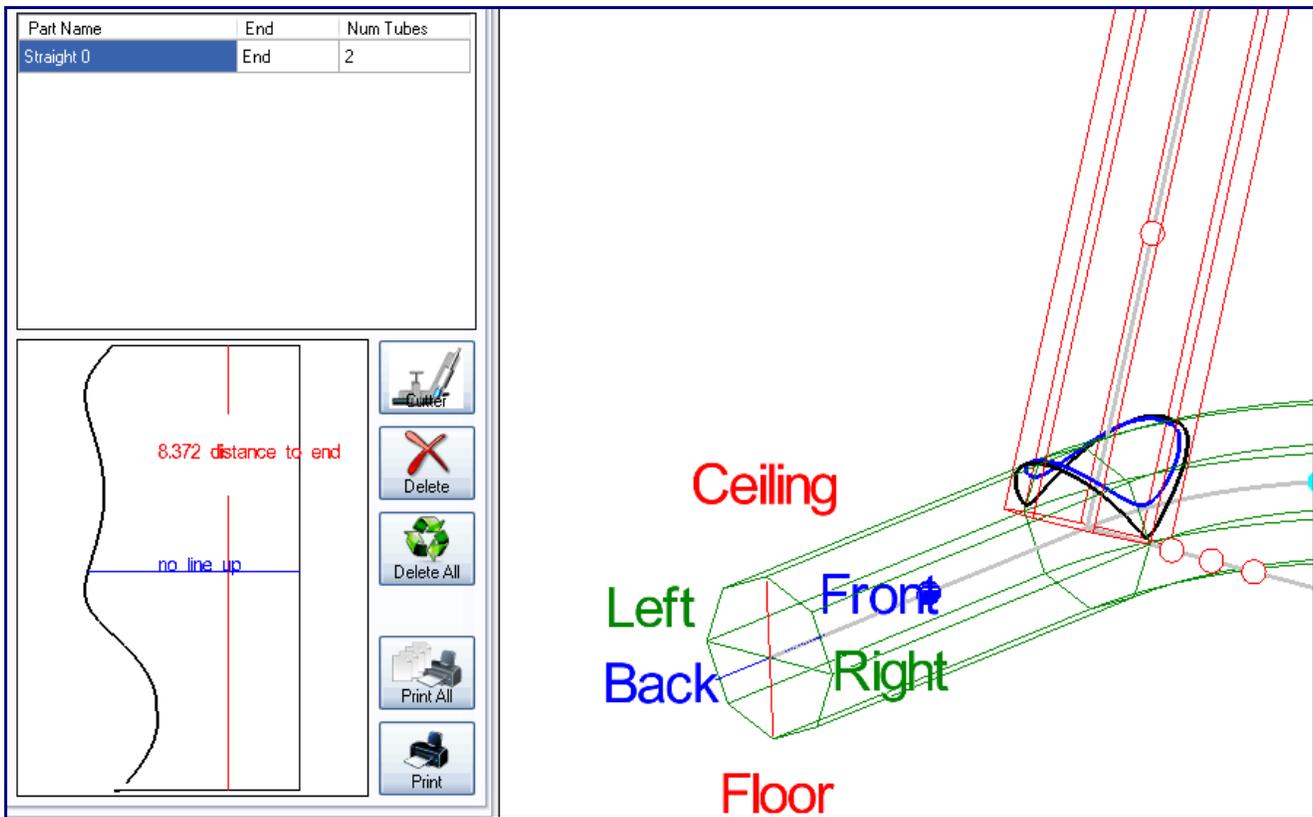


On the bent part you will see a dark blue point on each straight section and a lighter blue point on the bent section. Click the left dark blue point and the light blue point.

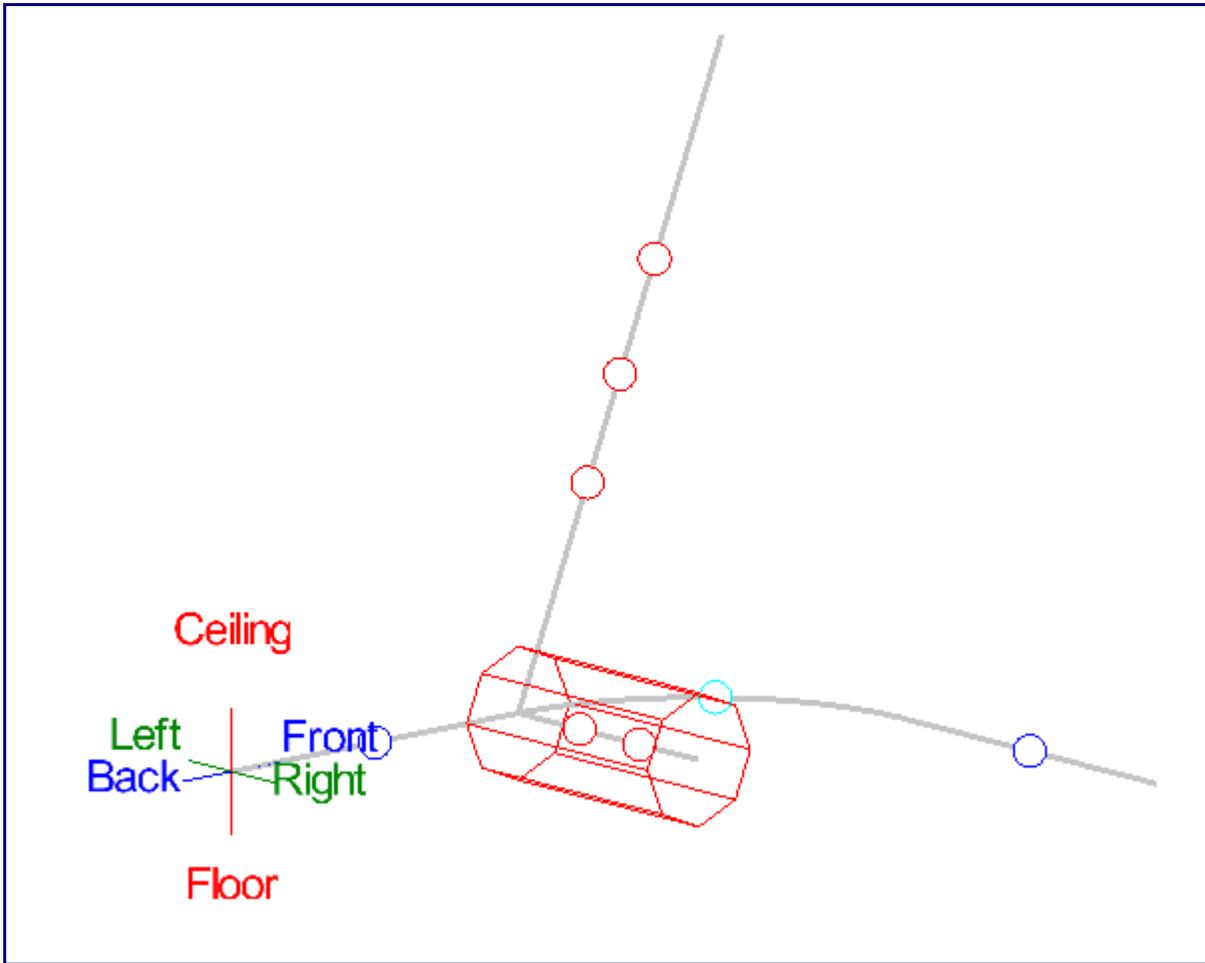


Notice how you had to make two selections for the same part. You can only select sections of parts during cutting, so bent parts will need to have their bends and straight sections selected separately. You only need to select sections that you want the first tube to be cut to. For this reason, we do not need to select the right straight section of the bent tube.

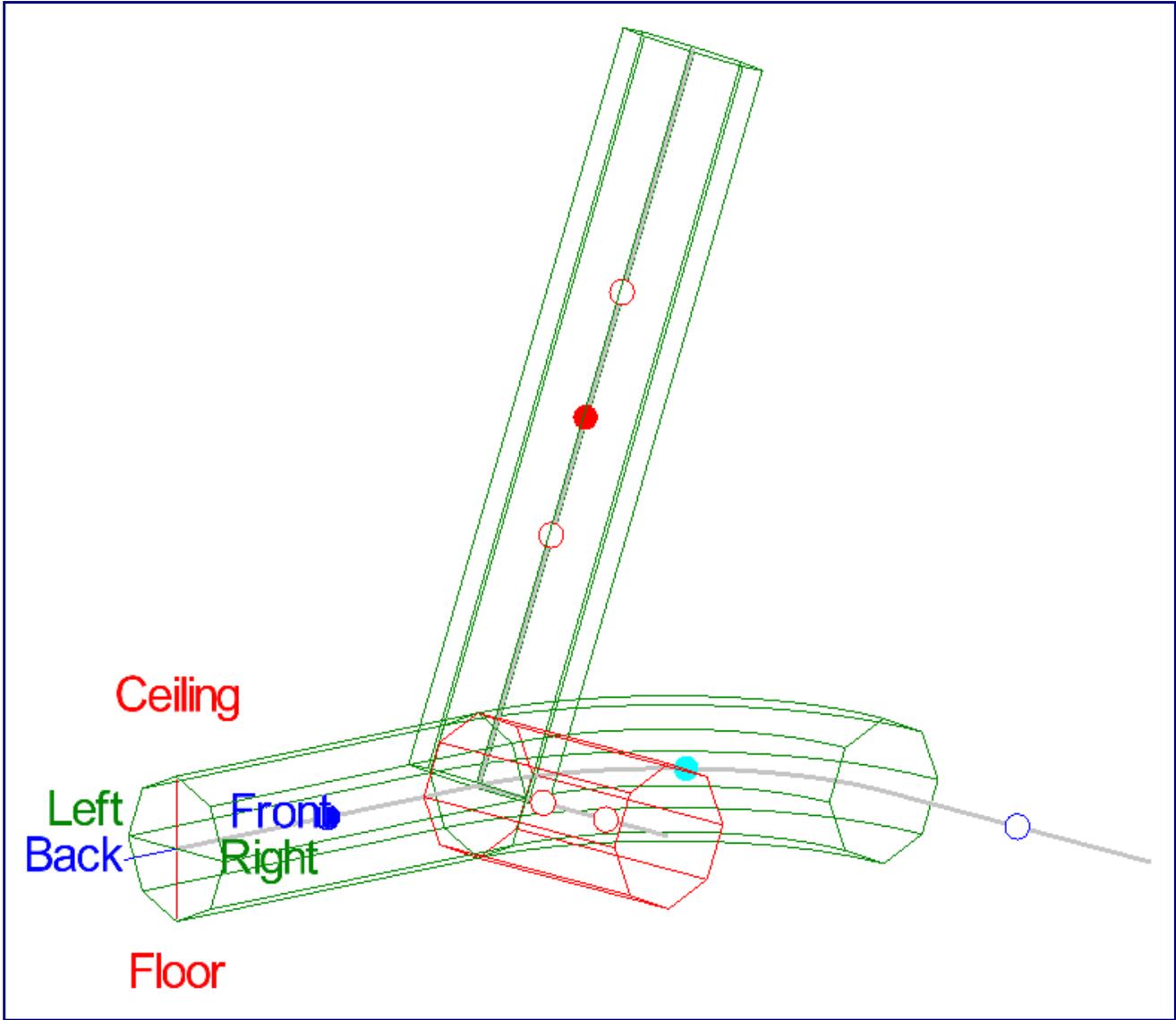
Click the Cut Complete button to finish and add the cut. You will now see a preview of the cutting sleeve displayed in the bottom left corner of the screen.



Now click the New Cut button again. Click the furthest left point on the small straight part.



Now select the left dark blue point and the light blue point on the bent part. Click the lowest point on the long straight part.



Click the Cut Complete button.