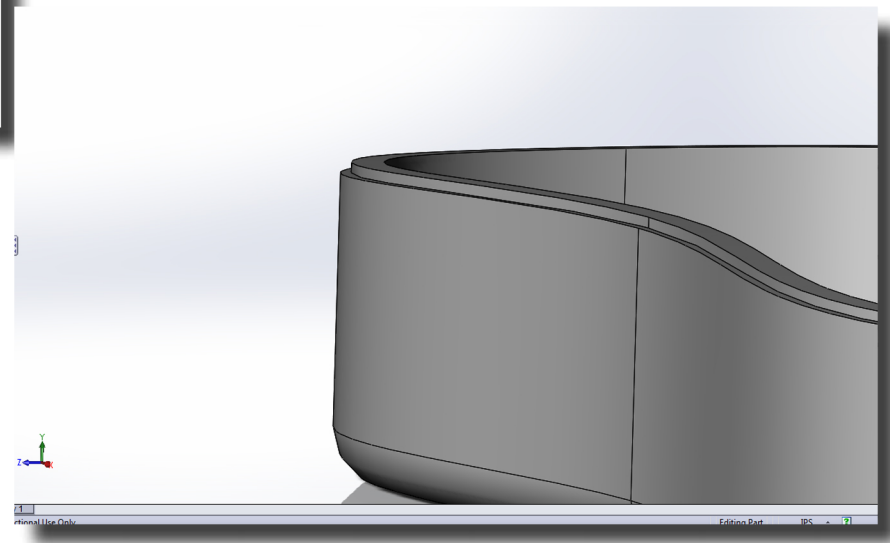
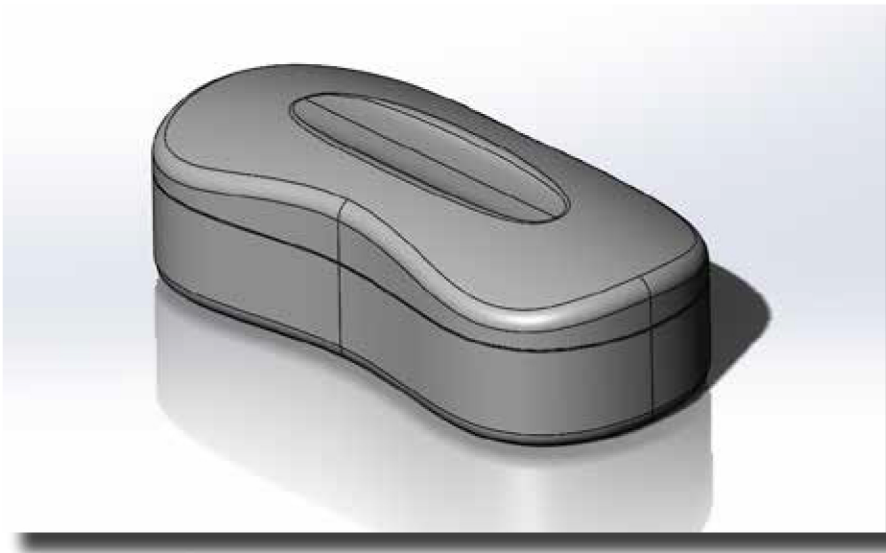


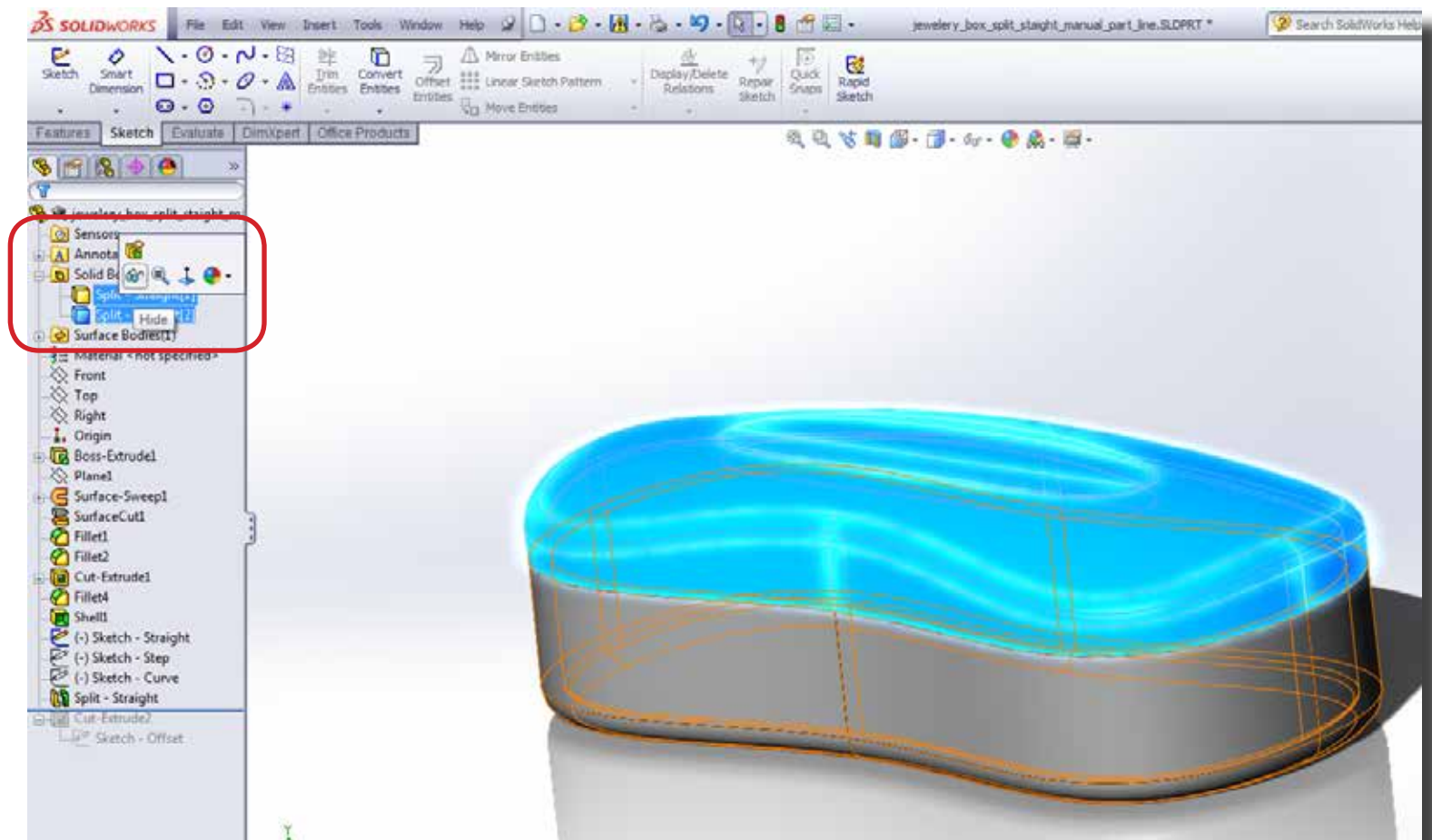
Solidworks - Adding Parting Lines

Introduction A parting line is a gap placed between two halves of a part where they meet. Part lines provide for an allowance when halves do not match perfectly and give every rendering a sense of reality. This tutorial discusses two ways to add parting lines.



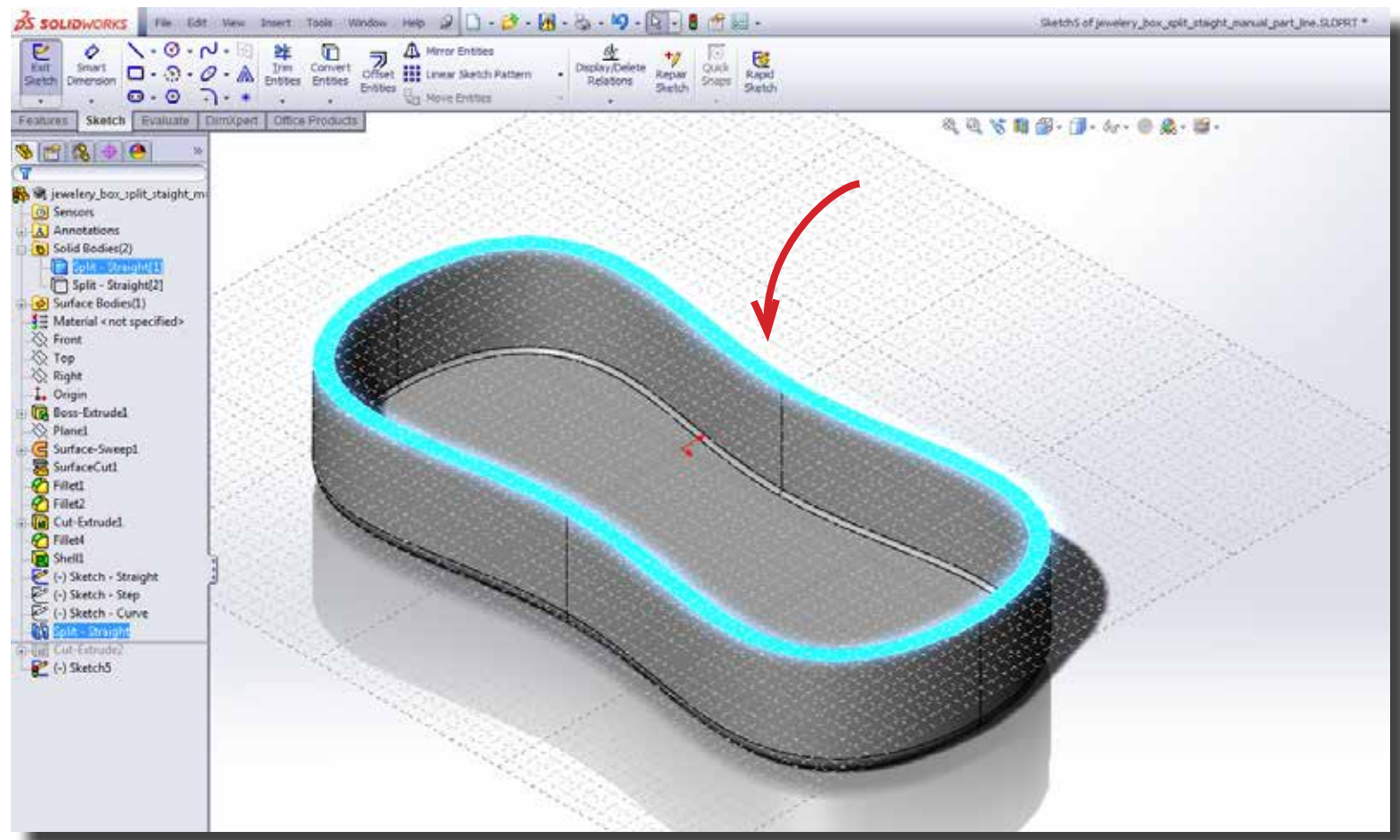
Solidworks - Adding Parting Lines

Step 1 The first way is to manually add parting lines. This can only be done if you have made a straight split. Start by hiding the top or bottom part in the feature tree.



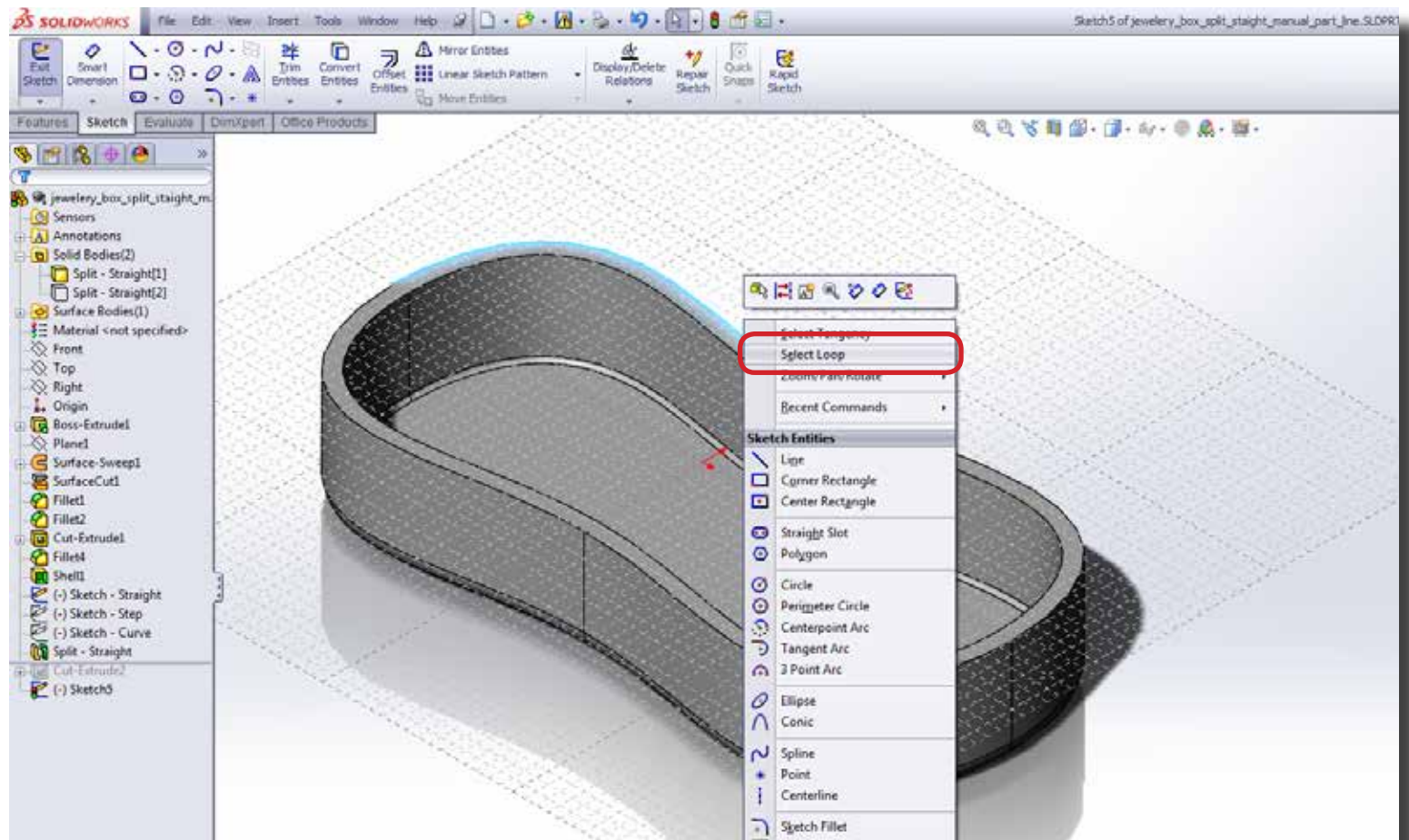
Solidworks - Adding Parting Lines

Step 2 Select the flat surface of the bottom part (See picture) and create a sketch on it.



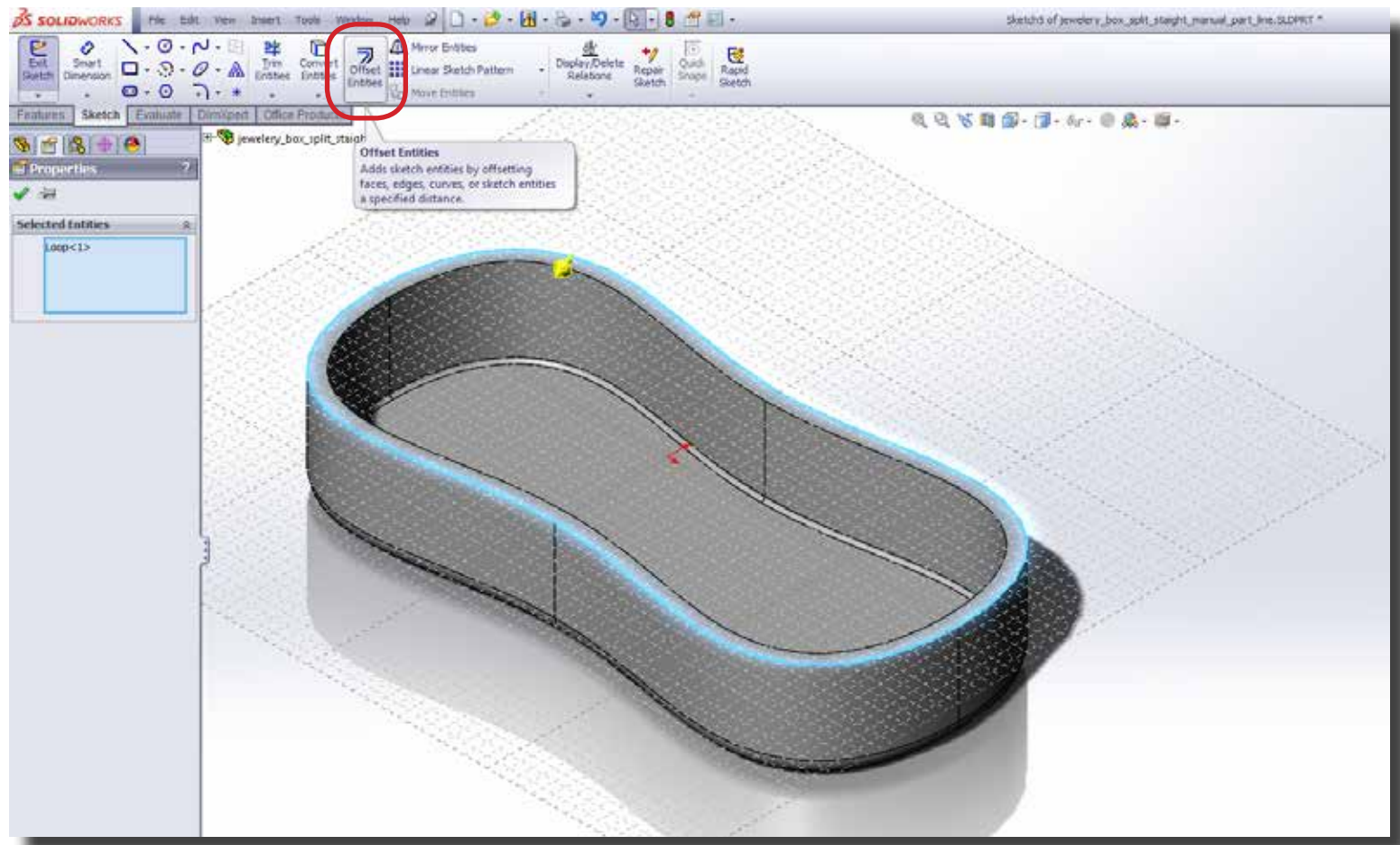
Solidworks - Adding Parting Lines

Step 3 Right click on the outer edge and click select loop.



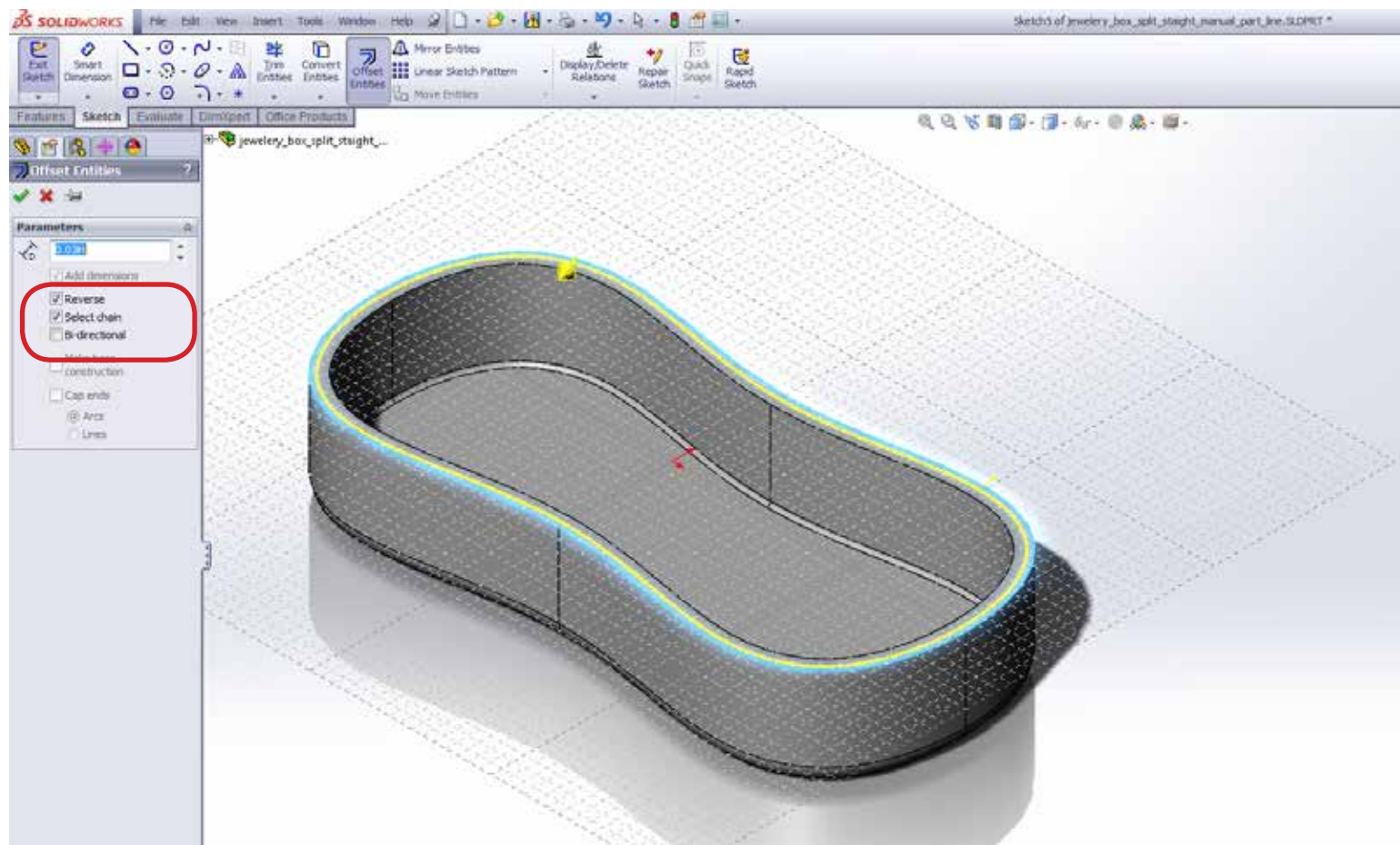
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Step 4 While the loop is selected, click on 'Offset Entities'.



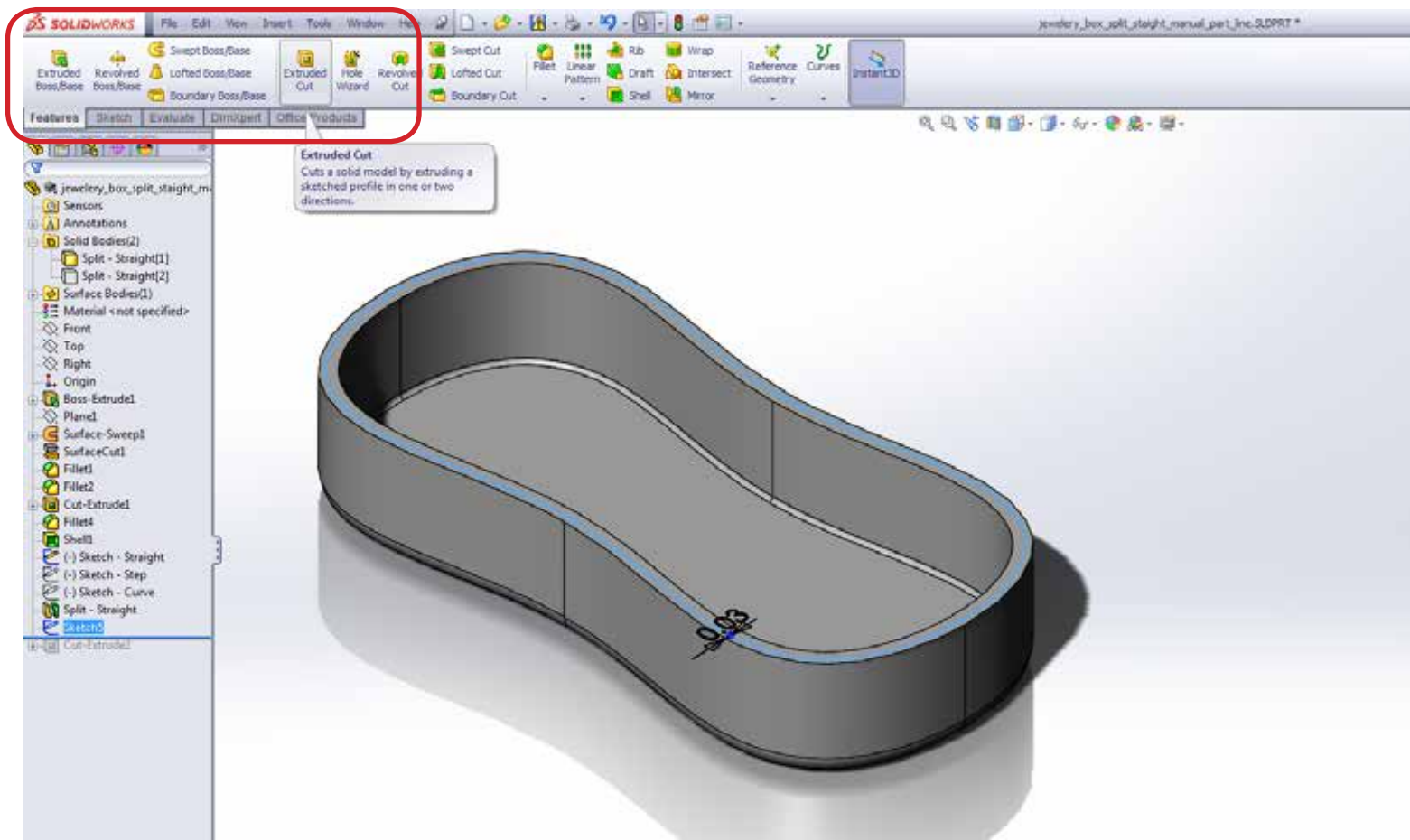
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Step 5 Select reverse in the 'Offset Entities' options to make sure the yellow line is inside the blue line. Set the value such that the yellow line is just a little offset from the blue line. After this hit the green check mark to confirm. Then confirm the sketch.



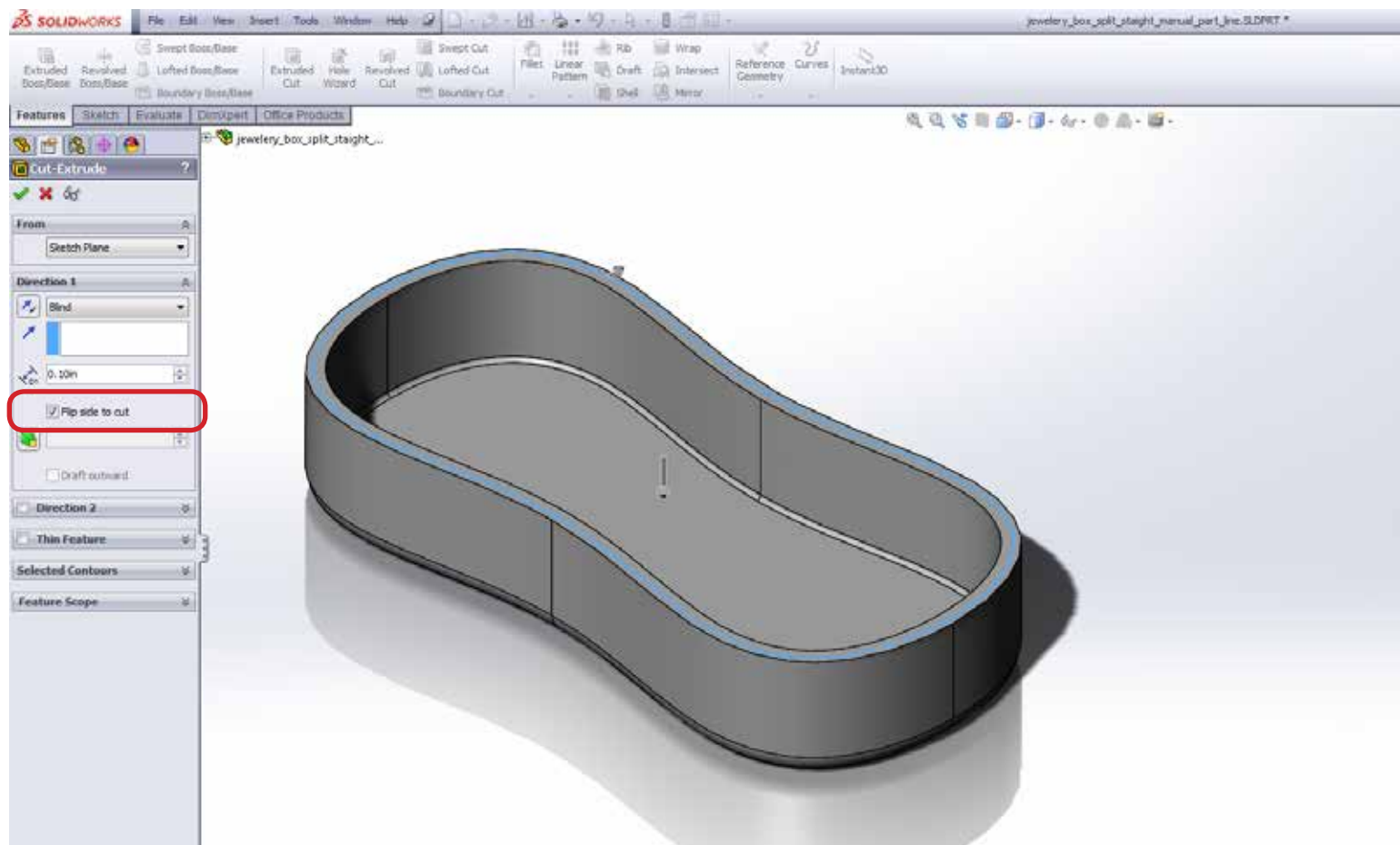
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Step 6 Next, select the sketch you created, go to the 'Features' tab and select 'Extruded Cut'.



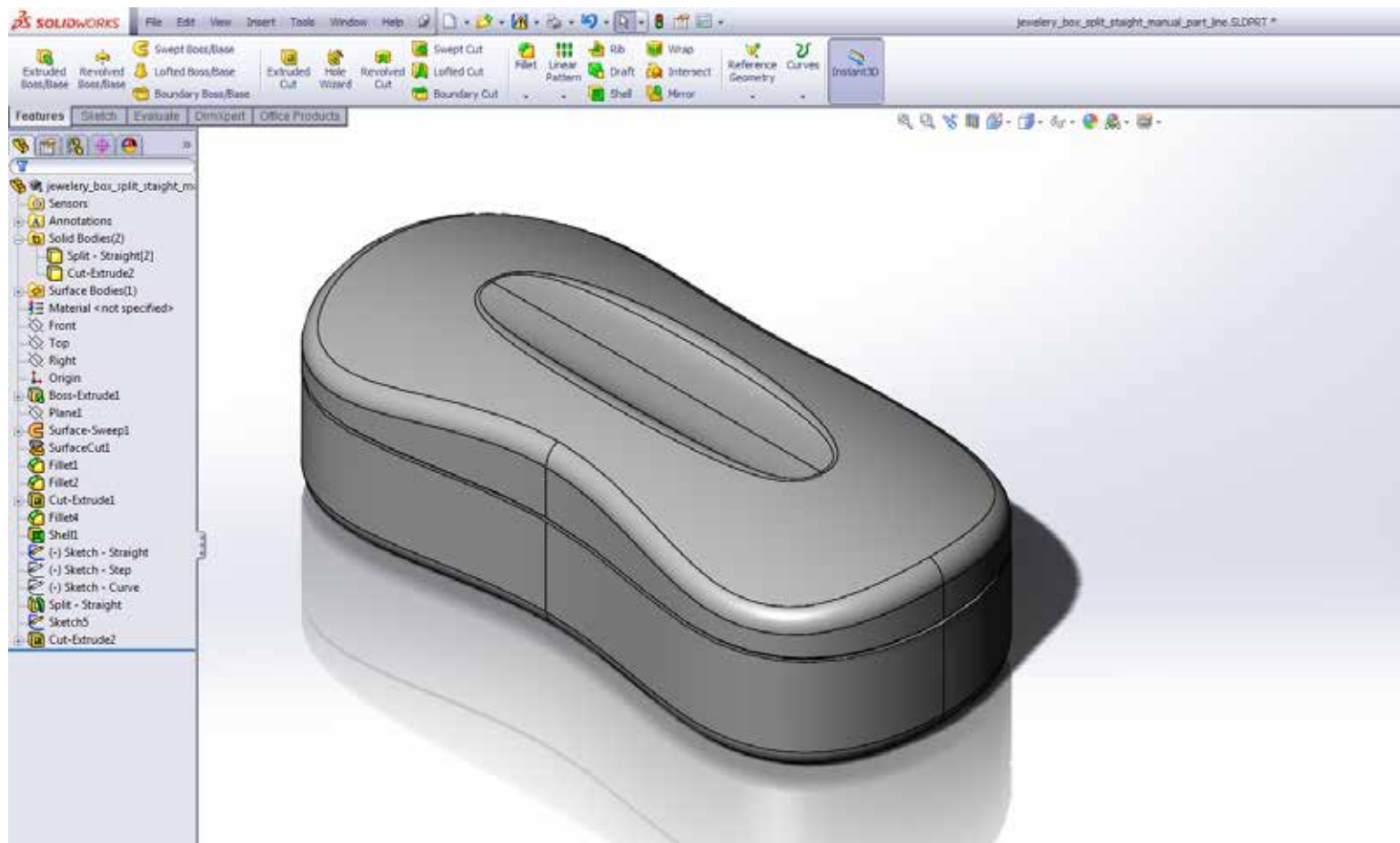
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Step 7 In the 'Cut-Extrude' options enter the value for the gap you want, preferably 0.03 inches for a handheld device. After that check 'Flip side to cut'. Hit confirm and you will have your parting line.



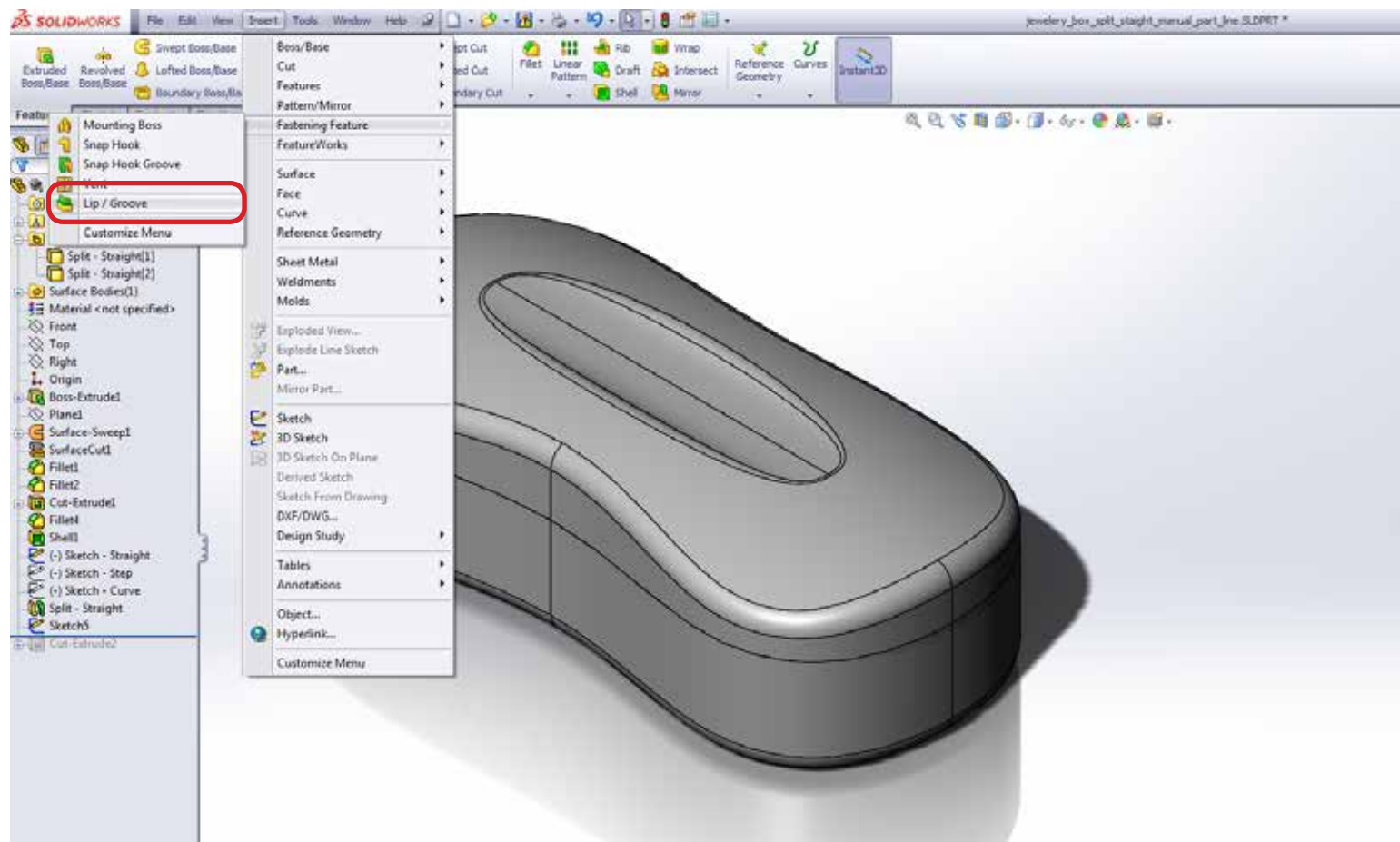
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Step 8 Unhide or show the part you decided to hide in the first step.



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Step 9 Another way to add parting lines is by using 'Lip/Groove' Tool. Go to Insert > Fastening Feature > Lip/Groove.



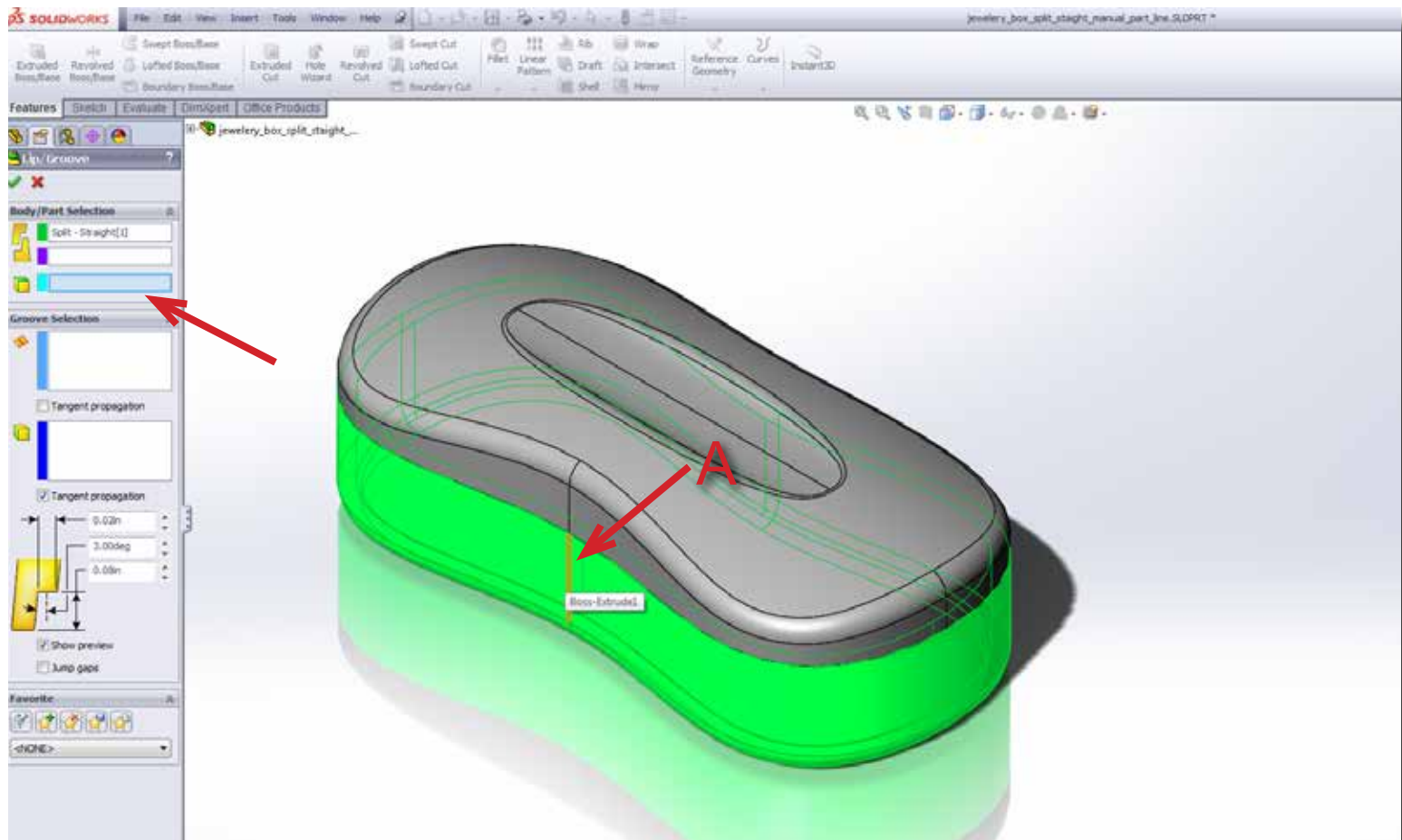
Solidworks - Adding Parting Lines

Step 10 Another way to add parting lines is by using 'Lip/Groove' Tool. Go to Insert > Fastening Feature > Lip/Groove. Select the body/component on which to create a groove. (A)



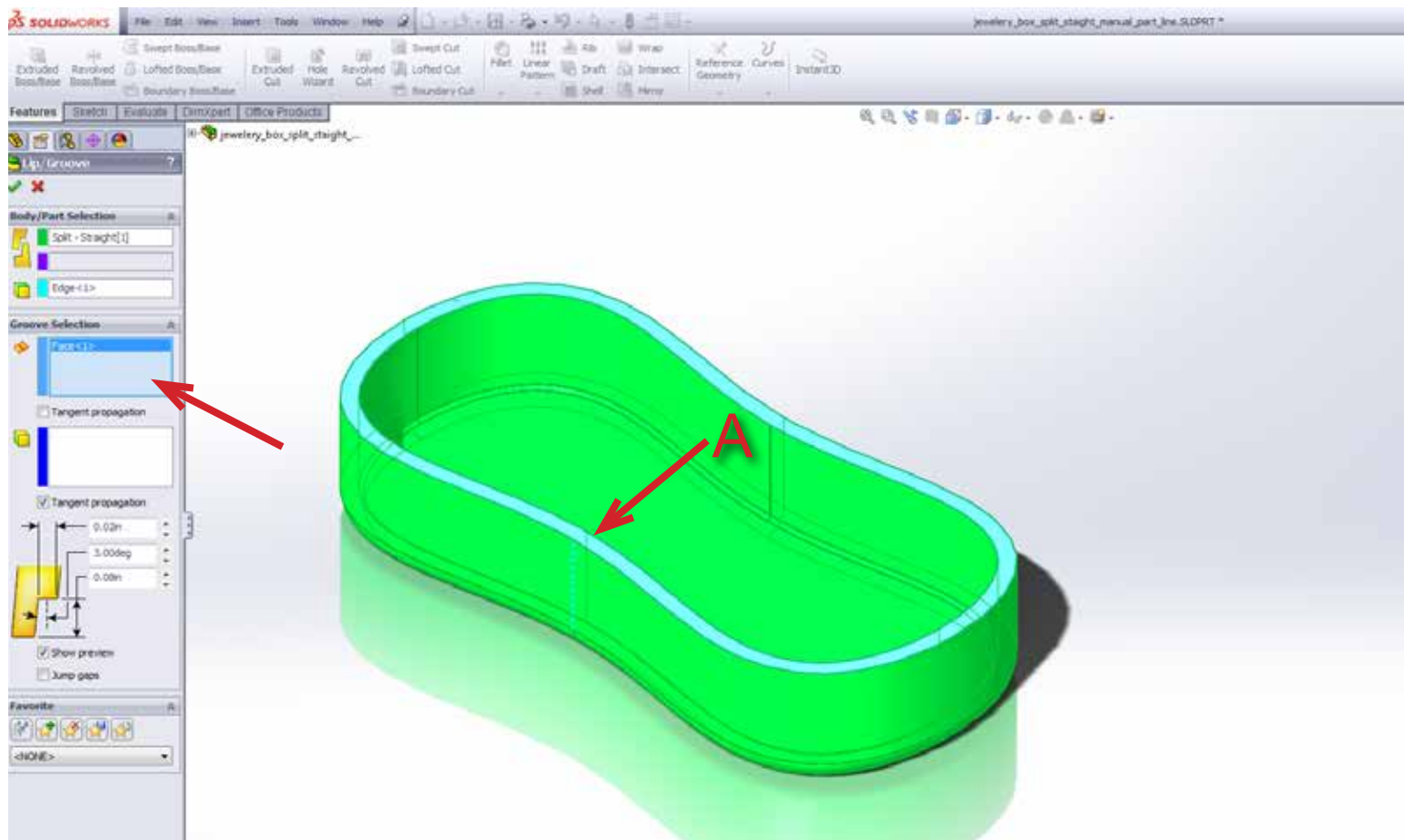
Solidworks - Adding Parting Lines

Step 11 Next, select the a straight edge (B) to define the direction of the groove.



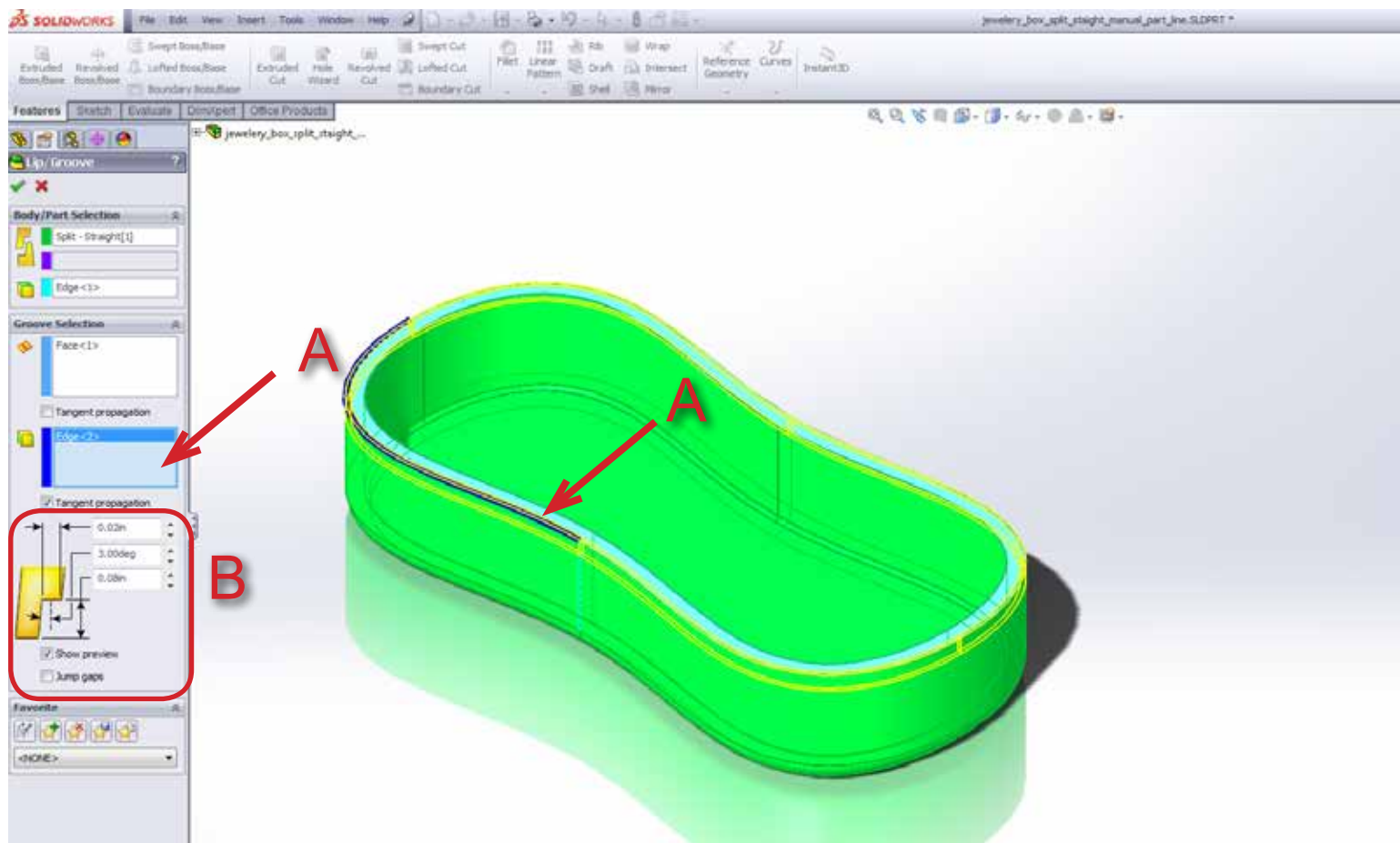
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Step 12 Select the face (A) on which to create the groove.



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Step 13 Select the outer edge to create a groove on.(A)
Decide on the dimensions of the groove.(B)



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Step 14 Hit confirm and you will have the parting line.

