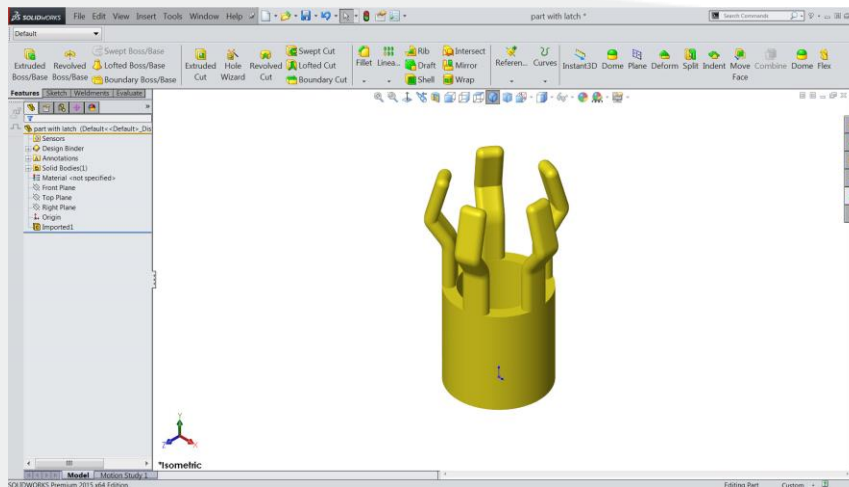


Intersection Curve Tool

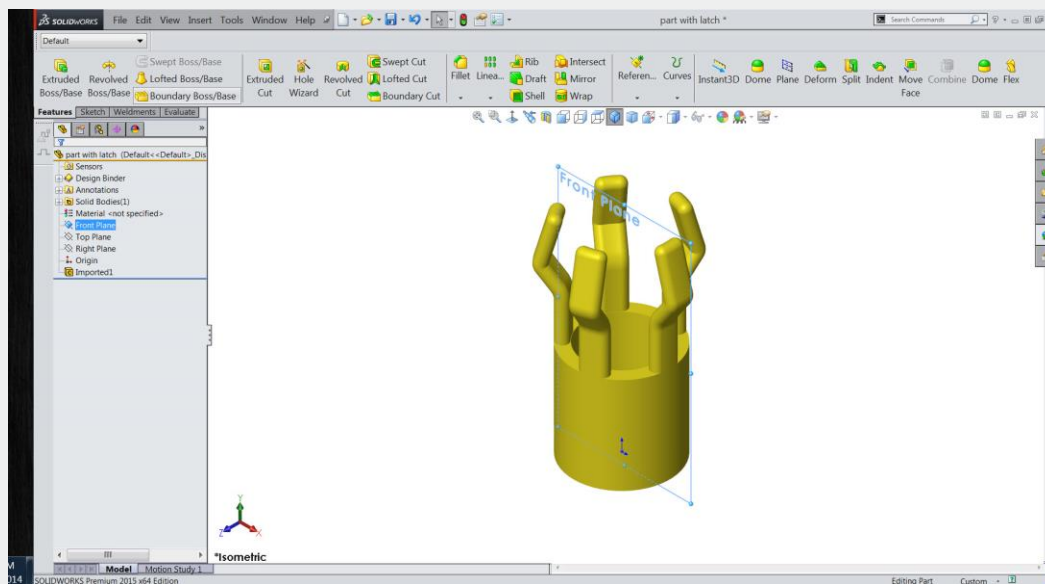
by Guy DeLozier, Sr. Applications Engineer

Why do we need the Intersection Curve Tool?



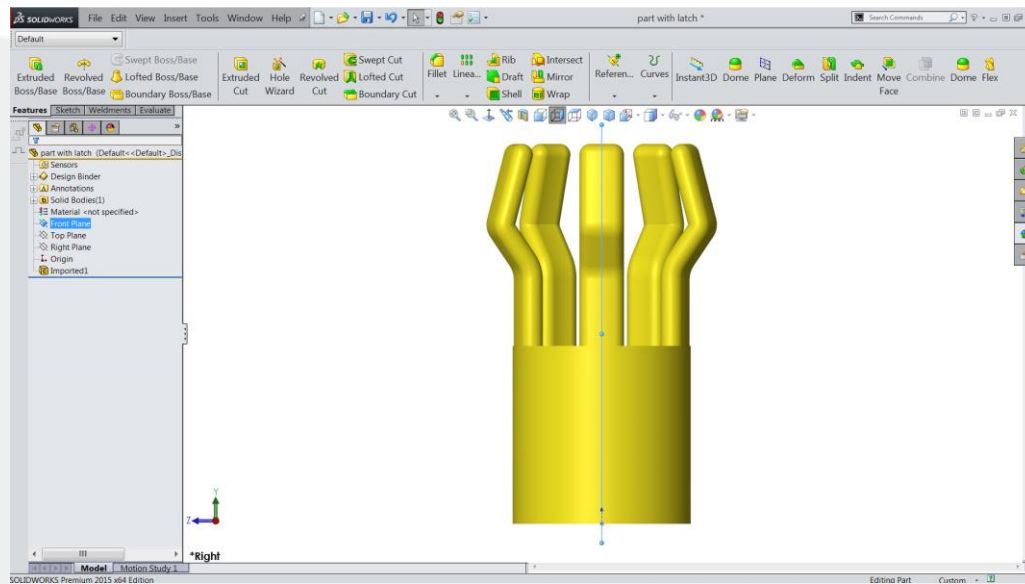
Sometimes you receive a part from some other system, and it imports into SOLIDWORKS without any feature history. In this case this part has 5 fingers that you would like to have the exact geometry sketch of a finger, so you can use it again in another part file. Intersection Curve is the answer. Everywhere a selected plane intersects a selected face/surface, Intersection Curve will make a sketch line for you.

Select a plane that intersects the geometry in an appropriate manner.

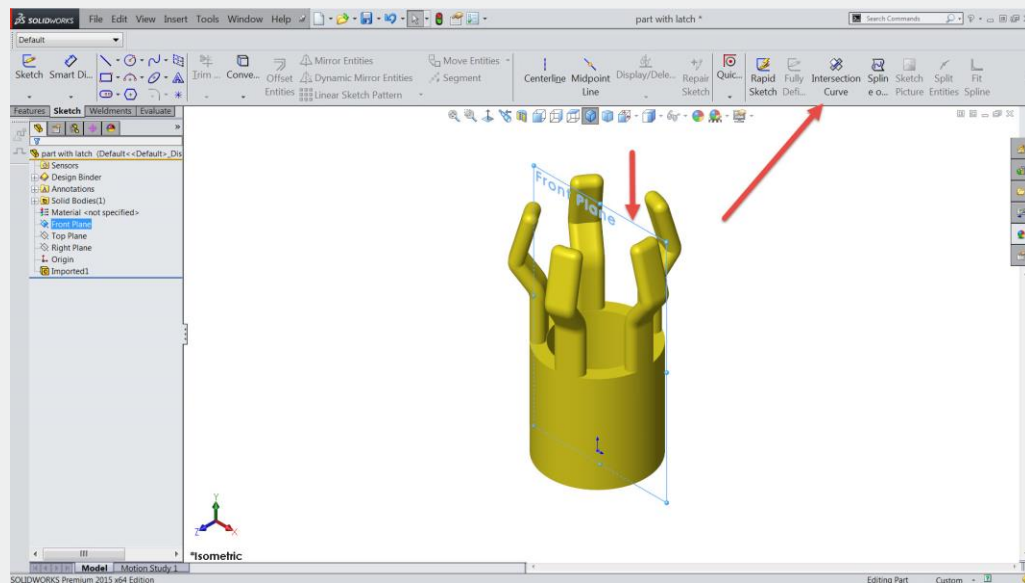


Here the front plane is selected from an isometric view, which appears to intersect one of the latch fingers.

Model is turned to verify that the plane intersects the latch finger geometry

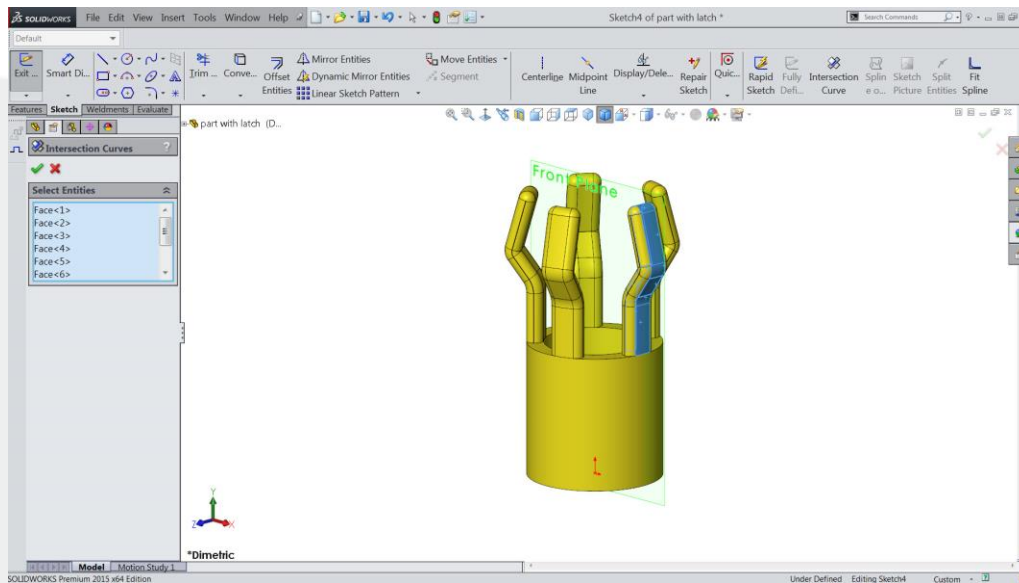


Select the Plane then the Intersection Curve Tool



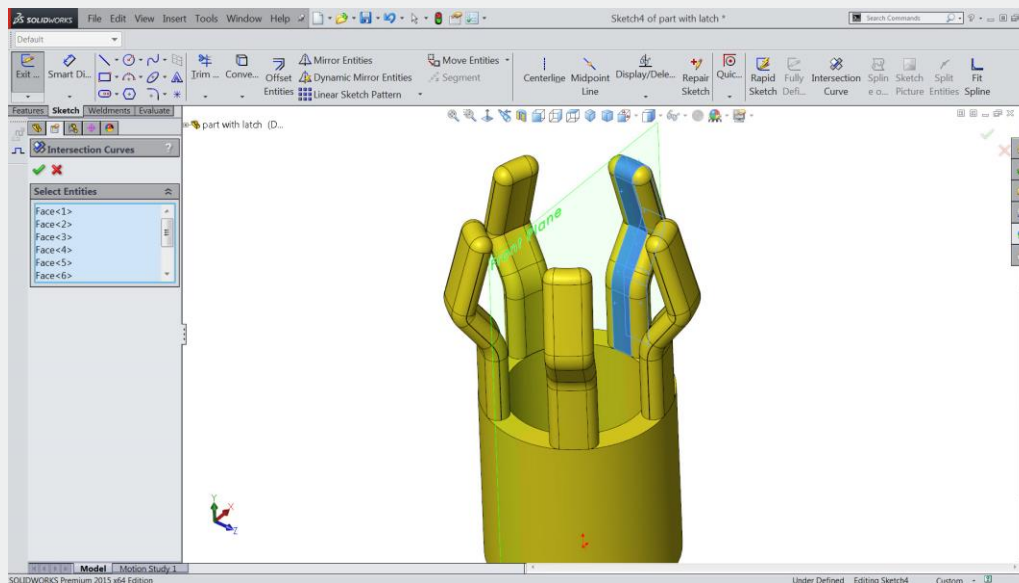
Intersection curve lives in Tools, Sketch Tools, Intersection Curve.

Intersection Curve Tool dialog box and some selections



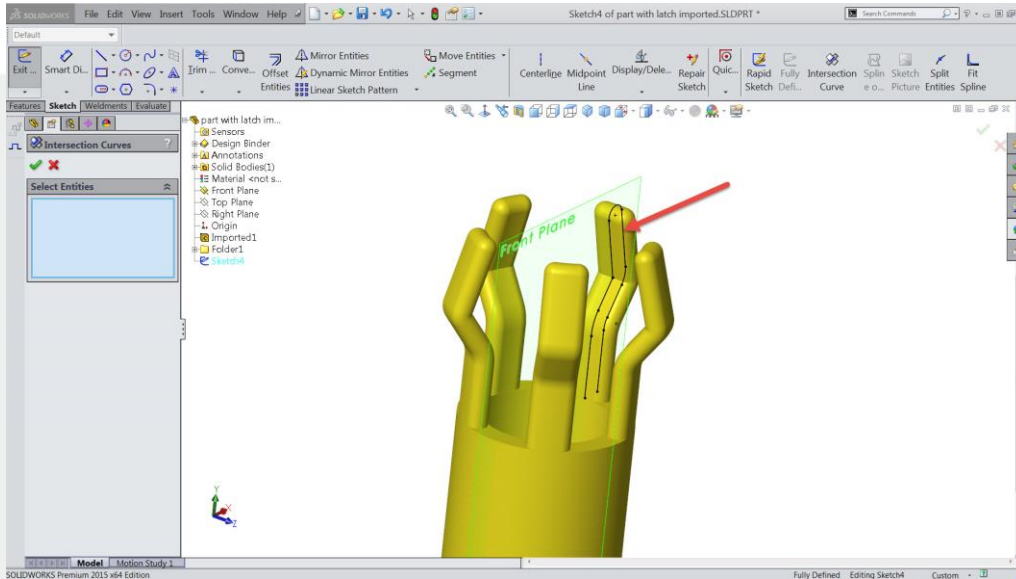
Once tool is started select plane if not already selected, then all the faces the plane intersects that you want sketch lines thru.

The other side of the Latch finger selections



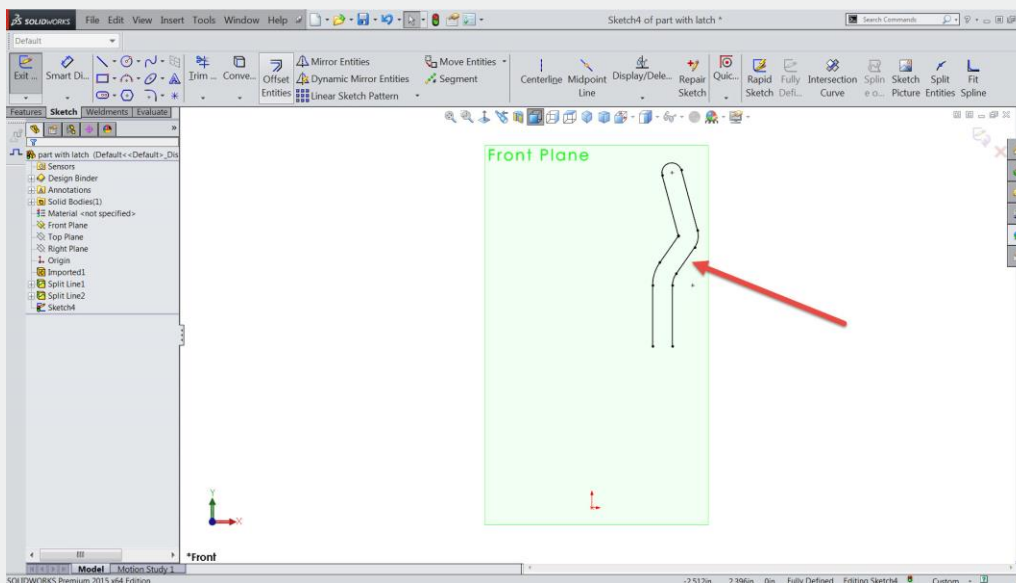
Finish selecting all the faces for the plane to intersect to make sketch entities.

Your sketch entities show up as soon as you click the green check



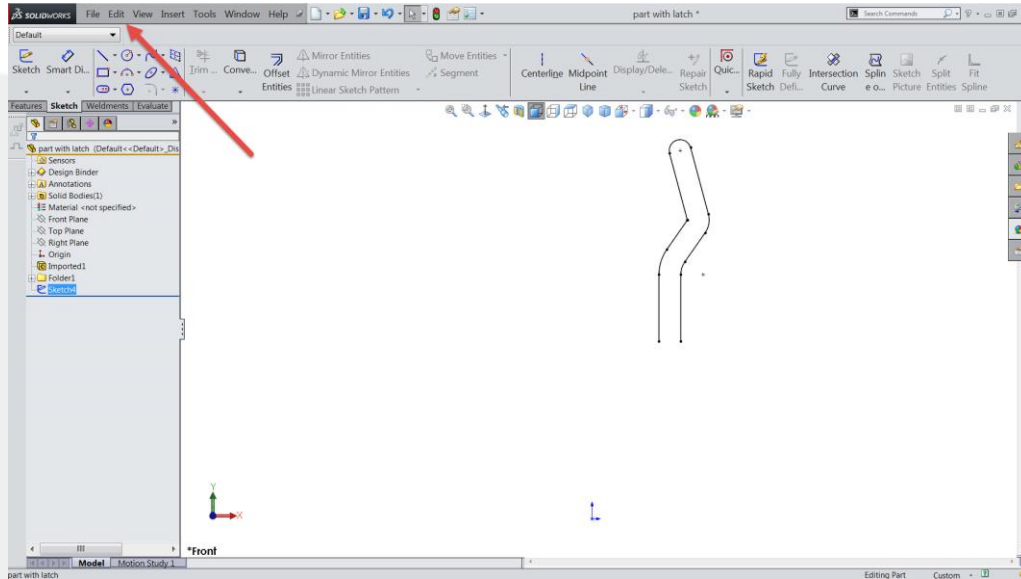
If you have missed any places, the dialog box is still up, just select them and click green check for OK. You can also restart the feature if it got dismissed too early.

This shows the sketch with the solid body hidden



Exit the sketch when all entities are there.

Now would be a good time to copy the sketch to paste onto a plane in a new part



Edit copy, or Control C. Go to a new part and pick a plane or face to paste the new sketch made by the Intersection Curve tool. Copy and paste within the same part file also, of course. Edit and alter as needed.



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and I love the software they provide!"*

-Joe Engineer, Know It All, GoEngineer