

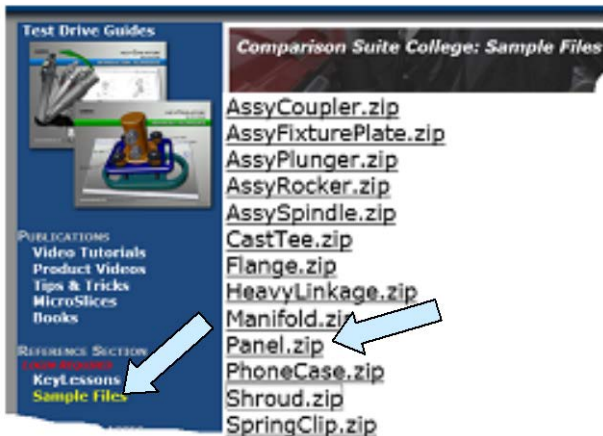
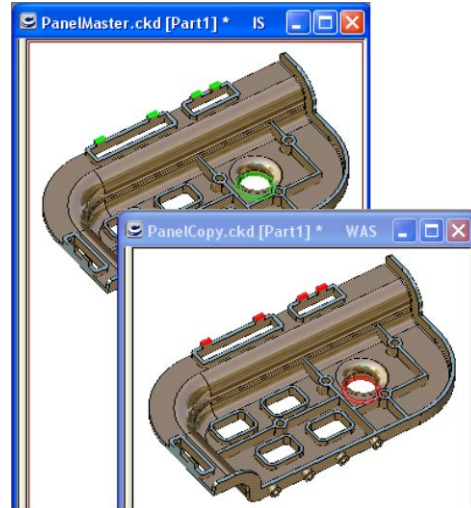
# KEYCREATOR 3D Direct Modeling Software

## KeyCreator Lesson KC8509

### Working with a Molded Panel

In this exercise we'll use two sample files provided in the Comparison Suite College for our work.

We'll use the same tools covered in earlier lessons but in this case the parts are more complex with a larger number of discrepant faces.



Start by clicking on the Sample Files Option on the left side of the main Comparison Suite College Screen.

Then, click on the Panel.zip file in the list of available files.

**Note: Each of these zip files contains a set of two files. One file has “Master” in the name and one file has “Copy” in the name.**

The Panel.zip file will appear in your Downloads folder on your computer. Right Mouse Click on the zip file and extract the two files within it.

You will have:

**PanelMaster.ckd**  
**PanelCopy.ckd**

Click on the TOGGLE DIFFERENCE RESULTS Icon to display the window if it is not up.



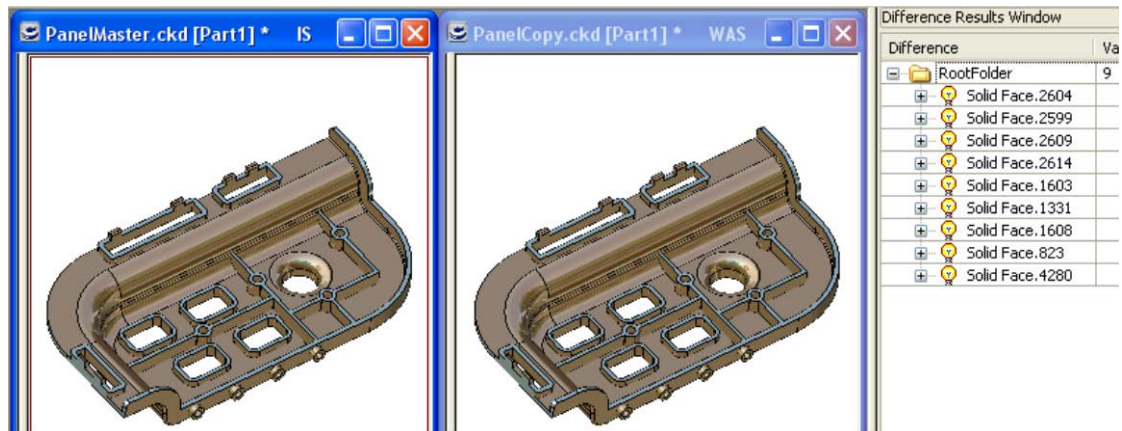
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Next, click on the VALIDATE PARTS Icon.



Open the PanelMaster file as the IS file and the PanelCopy file as the WAS File.

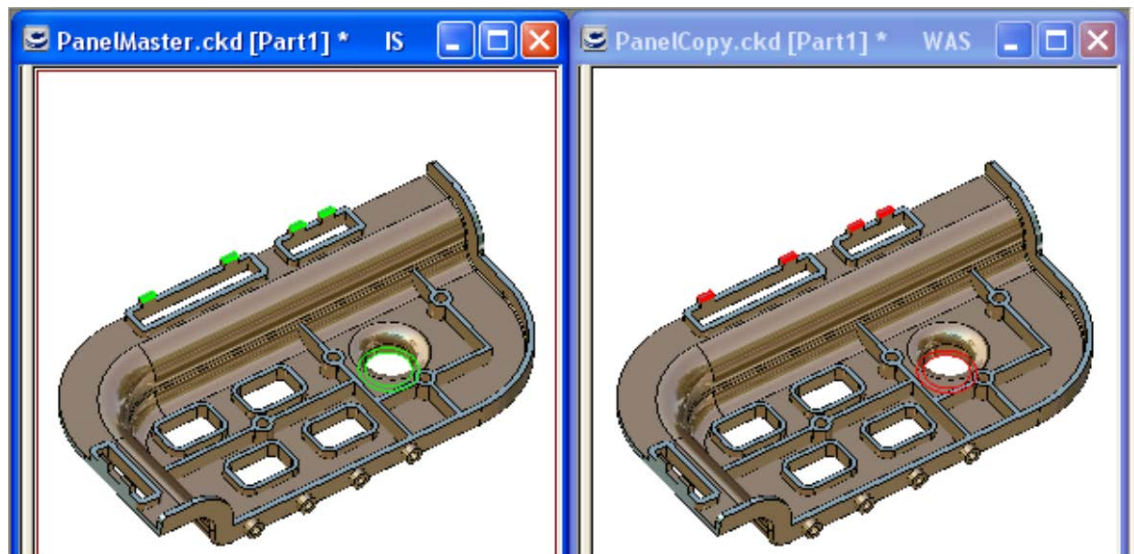
Your screen should look like this:



Click on the RootFolder row in the Difference Results Window to highlight the discrepant faces.

Your screen should now look like this:

Notice that there are four tabs and one circular port that are discrepant.

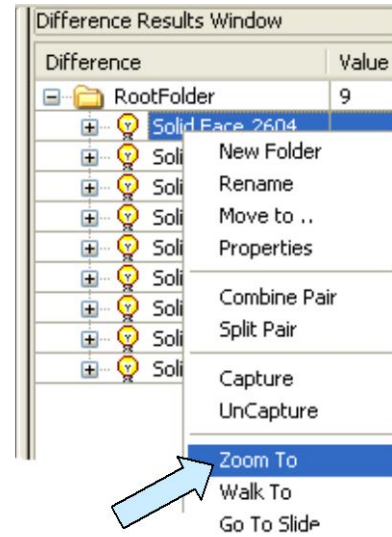
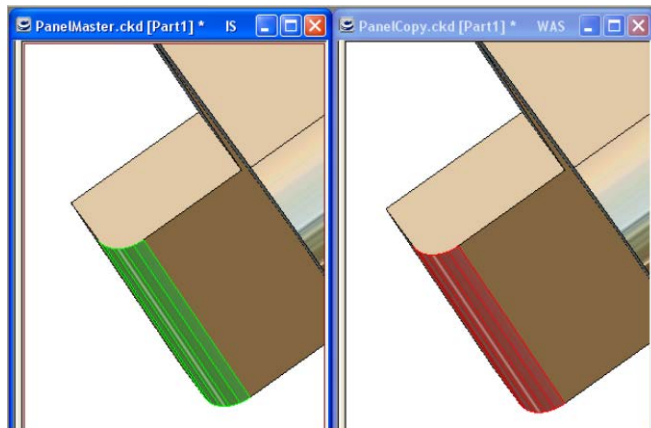


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## Closing in on a Discrepancy

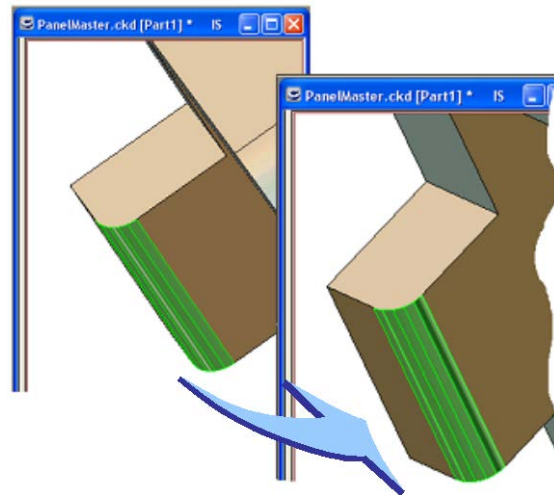
If you've worked through some of the previous KeyLessons, you have a basic idea of how to use the comparison tools. In this exercise, let's look a little more closely at why one tool might be more useful than another in a particular situation.

Right Mouse Click on the first Solid Face entry and then on the ZoomTo Option in the menu that appears.



Your screen should look like this:

You can dynamically rotate the IS part slightly so the highlighted face is easier to see.



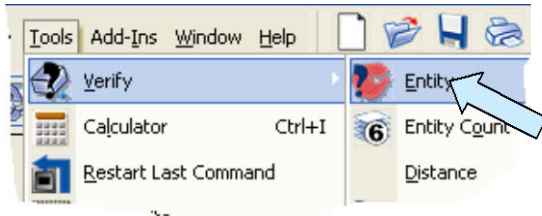
You would then click on the SYNCHRONIZE VIEWS Icon to make the WAS part reorient to the new view.

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If you click to expand the information for SolidFace.2604, you'll see that there is a difference of 0.01 between the two files.

Just what does this mean?

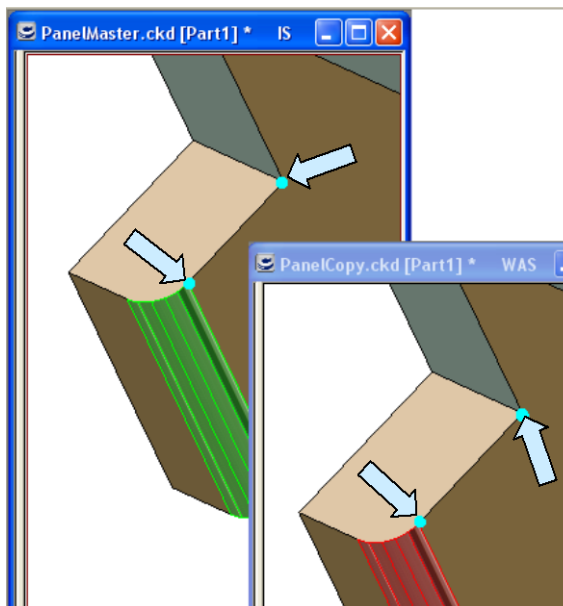
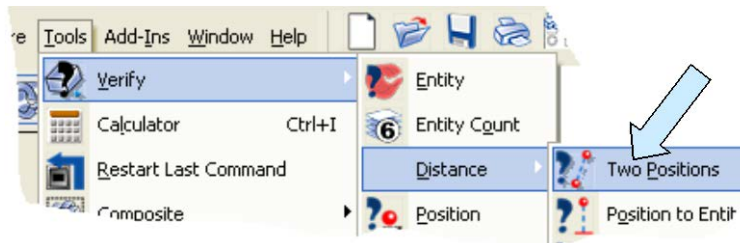
Difference	Value
RootFolder	9
Solid Face.2604	
IS ID(s)	2604
WAS ID(s)	2604
Difference ...	
IS Position	(-3.4...
WAS Position	(-3.4...
Difference	0.01
Solid Face.2599	



If you click on the TOOLS/VERIFY/ENTITY Icon and check the radius of the blend in each file, you'll find that they are both 0.035 inches.

So that's not what is different.

Instead, click on TOOLS/VERIFY/ DISTANCE/ TWO POSITIONS.



Using the EndEnt Option, click on the two positions indicated by arrows in the illustration to the left.

The distance in the IS file measures 0.115 and the distance in the WAS file measures 0.125, so this accounts for the 0.01 error value.

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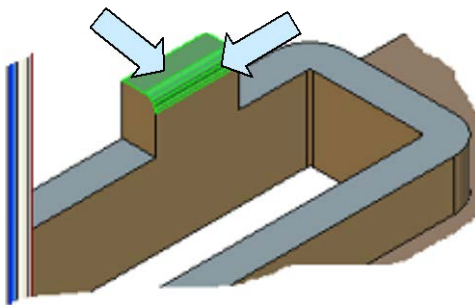
Autoscale the display in the IS File and then click on the SYNCHRONIZE VIEWS Icon to make the WAS file match.

Now, click on the SolidFace.1603 entry in the Difference Results Window and expand the entry.

Notice that there is also a 0.01 discrepancy between the two files for this face.

A screenshot of the 'Difference Results' window. A blue arrow points to the 'Solid Face.1603' entry, which is expanded. Another blue arrow points to the 'Difference' value of 0.01.

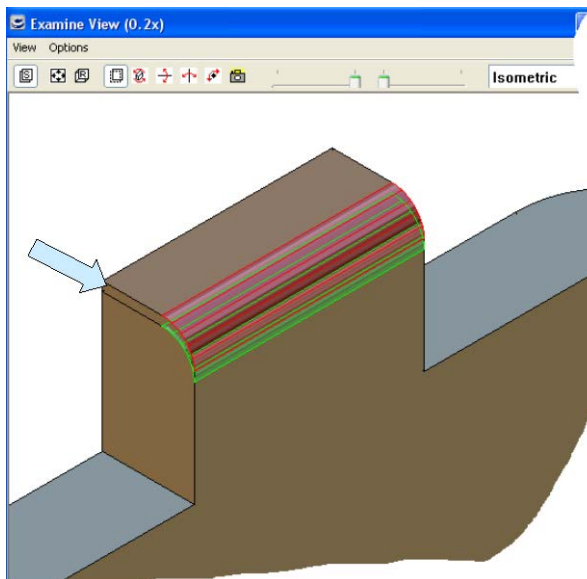
+	⚠	Solid Face.2614	
+	⚠	Solid Face.2614	
-	⚠	Solid Face.1603	
		IS ID(s)	1603
		WAS ID(s)	1603
		Difference ...	
		IS Position	(-3.00)
		WAS Position	(-3.00)
		Difference	0.01
+	⚠	Solid Face.1331	



Obviously since this face connects to the corner blend face, the two files would show the same 0.01 difference.

Using the EXAMINE VIEW gives you a better way to analyze this type of discrepancy.

Click on the EXAMINE VIEW Icon.



Obviously the Examine View provides you with all of the information at a glance.

In situations where a feature like a tab may have two or more faces that will be discrepant, using the Examine View provides you with an alternate way to quickly see the variations in part geometry.