

3D GEOMETRY/SOLID TROUBLESHOOTING

PROBLEM/ISSUE	TROUBLESHOOTING STEPS
Can't create Revolved feature	<div><div>G01</div><div>Is axis of rotation selected or incorrect?<ul style="list-style-type: none">In Solid Revolve feature, make sure you have selected the correct line to serve as the axis of rotation of the revolved solid body.</div></div> <div><div>G01</div><div>Is the geometry chained properly?<ul style="list-style-type: none">Check for any duplicate/overlapping geometry, or broken/disconnected chains.Correct any geometry issues.</div></div>
Extrude Solid Body will not extrude body/cut body correctly.	<div><div>G01</div><div>Is selected geometry chained properly?<ul style="list-style-type: none">Correct any duplicate/overlapping geometry, or broken/disconnected chains.</div></div> <div><div>G01</div><div>Is the direction or distance correct?<ul style="list-style-type: none">Change direction or correct the distance to be extruded to.</div></div> <div><div>G01</div><div>Is the chain fully closed?<ul style="list-style-type: none">Make sure the chain is complete, otherwise the geometry will attempt to create a thin-wall feature instead of full body feature.</div></div>
Loft feature has inconsistent number of syncs.	<div><div>G01</div><div>Do all profiles have an equal number of total entities?<ul style="list-style-type: none">Trim/break geometry of any profile that has a lesser amount of entities to match the amount of entities of the other profiles. They must be equal.</div></div> <div><div>G01</div><div>Check for any duplicate/overlapping geometry, or broken/disconnected chains. Correct as needed to create full chain.</div></div>
Loft Feature fails to create loft.	<div><div>G01</div><div>Check to make sure all chained profiles will not create an overlapping surface issue due to a geometric condition. This may be done by using the trim/break command tool to modify the geometry as needed to allow the loft to form by bending the geometry.</div></div>
Sweep Feature will not form or looks jagged/is not correct.	<div><div>G01</div><div>Check for any duplicate/overlapping geometry, or broken/disconnected chains.<ul style="list-style-type: none">Correct as needed to create full chains required for sweep profiles.</div></div> <div><div>G01</div><div>Are all entities smoothed out and tangent as needed?<ul style="list-style-type: none">Check geometry for proper creation by using Analyze tools to verify.Correct geometry as necessary.</div></div>
Cut Extrude only cuts a portion of the body of the part, even with Through All enabled.	<div><div>G01</div><div>Did Boolean correctly join multiple bodies to form one body?<ul style="list-style-type: none">Use Solid Tab to verify features created were properly added/subtracted via the Boolean feature in the Solid Tree.</div></div>