Custom Insert Arrangement Tool Instructions

Created by: Christian Cole – Design Engineer – Mil/Aero

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**Introduction:**

This tool will allow the customer to access a set of 3D models that are designed to provide visualization of geometries for inserts and contacts as well as required electrical spacing for contacts in our 38999 Series III. The customer will be able to:

* Design **custom Insert Arrangements** without the need for an engineer.
* Combine these models with their own assemblies to **check fit**.
* Determine **connector spacing**
* Locate **mounting holes**

**Directions:**

1. Open Zip Folder and Extract contents then save them in a marked folder on your Desktop.
2. Open parametric program.
3. Drag and drop all of the STP. Files of interest into your parametric software.
4. Each component should be saved as a PRT. File.

**NOTE:** There will be a few examples provided of full Insert Arrangements. These should be saved as ASM. Files.

1. When the file opens, the 3D model will be visible. Save the file with the Part Number that it came with.
2. Use the extruded quadrant markers to create new datum planes for assembly and location purposes.

**NOTE:** A STP. File erases all dimensions, datum planes, etc. and leaves it as nothing but a simple 3D model. The Inserts and Contacts have been designed with extruded quadrant markers that are .001 thick to allow for the creation of new datum planes which help greatly with assembly. Don’t forget to add or subtract .0005 when relating to the quadrant markers to account for their width.

1. Place the base of the contact cylinders on the face of the insert cylinders making sure that nothing overlaps.

**NOTE:** The contact shafts must be within the diameter of the smallest circle. The different diameters represent; the usable insert space with the seal ring installed 🡪 smallest diameter of the insert 🡪 and the smallest diameter of the shell for that size; respectively from front to back. This is to help the customer identify boundary lines of where the contacts can go and to make sure that no EMI reaches out of the shell of the connector.