MONTANA
Department of Transportation

Project Development & Delivery - Digital Design and Modeling Services

Support Guide

Application/Tool(s): AutoCAD / Civil 3D
Version(s): v2022.1.3
Environment: MDT Civil 3D State Kit r2024 v1.19
Released/Revised: 9/12/2022



SUPPORT
Open a Case

"MISSING" SUBASSEMBLIES - TROUBLESHOOTING

ISSUE:

1. For situations in Civil 3D where a subassembly may not display in an assembly:
   When inserting a custom subassembly in AutoCAD Civil 3D, the graphic content is not displayed correctly. Instead, two red circles display on the screen and all other content is missing.

2. For situations where a subassembly may display in an assembly, but the corresponding geometry does not appear when the corridor is built:
   The assembly and subassembly seem to appear to display correctly, but the resulting built corridor is missing subassembly features.

SOLUTION:

1. This can be caused by a mismatch between Civil 3D and Subassembly Composer (SAC) versions. When a Civil 3D update is installed, SAC is updated as well, resulting in a version number increase. The Civil 3D Subassembly Composer

version used to create or edit the subassembly is incompatible with the version of Civil 3D currently installed on the machine.

If a custom subassembly was created using SAC version 2020.6 and the machine only has Civil 3D 2020.3 installed, the subassembly will not display correctly.

Update the machine to the same version of Civil 3D or higher than the SAC version used to create the subassembly. To be certain of compatibility, update to the most current update release of Civil 3D.

(This may no longer be an issue starting with Civil 3D 2022.2 and moving forward.)

2. This can be caused by a mismatch between custom subassemblies from one version to the next.

   An assembly was built with a "XYZ_Shoulder" subassembly in Civil 3D 2021. When the drawing is opened in Civil 3D 2022 the corridor does not build correctly. The 2022 version of "XYZ_Shoulder" has been updated and is no longer an exact match to the 2021 version. Procedures describing two solutions (A and B) are as follows:

PROCEDURE:

ISSUE/SOLUTION 2

Solution A:

1) Select the corridor and open **"Corridor Properties"**.

2) Un-checkmark all baselines and regions and rebuild an *empty* corridor.

3) Checkmark all baselines and regions and rebuild a *full* corridor.

4) The subassembly geometry should now be updated. If it does not update, try solution B.

Solution B:

1) Select the assembly in model space and open **"Assembly Properties"**.

2) Select the affected subassembly in the list tree and click **"Apply"**.

3) Rebuild the corridor.

4) The subassembly geometry should now be updated.