3.005 Schematic Import Crash - Steps to Reproduce

Prepared Oct 30, 2026. All times are Central Time (CT).

Summary

The schematic import itself worked. The crash happened right after, when AI Flow started placing parts. Every ADD command failed because Fusion could not find the project library, and Fusion showed an internal assert for each failed ADD. The same thing happened on Oct 29. **Verdict: this is mainly a Fusion Bridge bug.** Autodesk is only responsible for showing an assert instead of a clean error.

Environment

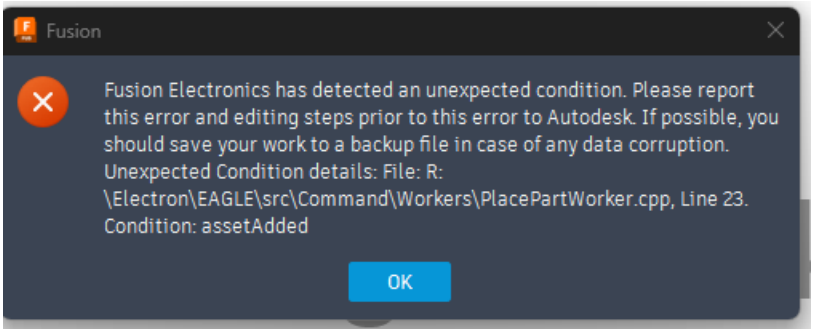
Fusion Bridge	1.13.44 (add-in 1.0.30)
AI Flow	adom-aiflow 0.2.26, schematic step, no --layout (auto plan)
Fusion	Windows PC, session started 6:42 PM CT. Fusion build not captured.
Project library	tacstix-3.005-aiflow-run-2/library/3_005_Library_Main.lbr (36 parts, built Oct 29 9:11 PM CT)
Design	tacstix-3.005-aiflow-run-2/design/Seed.sch and Seed.brd (seed with 0 fixed parts)

Steps leading up to the error

1. About 9:18 PM: Sparky reran the AI Flow schematic step for 3.005. Andy approved the shell command.
2. AI Flow seeded a design from the project library with 0 fixed parts and opened a new Electronics design.
3. 9:18:57 PM: Fusion Bridge imported Seed.sch (done 9:19:05), then Seed.brd (done 9:19:15). The import succeeded.
4. AI Flow asked the bridge to plan the schematic. The bridge split the parts into groups. The first group was wireless_rx: L1, C21 to C28, D4 to D15, L2, R14, R15, Q3.
5. AI Flow called fusion_schematic_run for that group. The bridge ran USE on the local .lbr file, then sent one ADD per part.
6. 9:19:35 PM: Fusion logged "No part available to add." for the first ADD (L1), then "Unknown part: L1" when the VALUE command ran. The Unexpected Condition dialog (below) appeared.
7. 9:19:52 PM: Same failure for C21. Fusion Bridge clicked OK on the assert dialogs by itself (its log shows "assertion dialog dismissed (OK)" twice), so the run kept going.
8. About 9:20:32 PM: AI Flow gave up after 60 seconds ("fusion_schematic_run did not respond within ab's 60s budget").
9. The bridge kept running in the background for about 196 seconds. C22 (9:22:35 PM) and C23 (9:22:51 PM) failed the same way. One more failure, C24, was logged at 9:38 PM.

Exact error

```
Fusion Electronics has detected an unexpected condition. Please report this error and editing steps
prior to this error to Autodesk. If possible, you should save your work to a backup file in case of any
data corruption.
Unexpected Condition details:
File: R:\Electron\EAGLE\src\Command\Workers\PlacePartWorker.cpp, Line 23
Condition: assetAdded
```



Matching Fusion log lines (Oct 30):

```
21:19:35 E New Alert message. No part available to add.
21:19:36 E New Alert message. Unknown part: L1
21:19:52 E ... No part available to add. / Unknown part: C21
```

Prior occurrence

Oct 29, 5:42 PM CT, previous run folder (tacstix-3.005-aiflow-run). It was the same group (wireless_rx) with the same 60 second timeout. Fusion logged the same "No part available to add" for L1 at 5:42:53 PM, then C21, C22 and C23. The failures continued until 8:17 PM (C24, D4 to D7, D12, C29, D14, L2, C25). So the run kept trying for over two hours after AI Flow gave up.

There is no matching wiki issue. None of the 132 adom/fusion-bridge issues mentions assetAdded, PlacePartWorker or "No part available". The closest is #133 (the Open dialog was never filled), which is the step before this one and is now fixed.

Likely cause

The failure is not tied to one part. Every ADD failed, including normal capacitors that have real 3D models. So the problem is the library, not a single device. fusion_schematic_run checks that each device exists in the .lbr file on disk, and then it runs USE with the local file path. It never checks that Fusion actually loaded that library. Fusion said "No part available to add" every time, which means USE did not make 3_005_Library_Main available. In PlacePartWorker, "assetAdded" is the step that adds the library part to the design, so it is the check that fails next.

Two things may make this worse. First, an older 3_005_Library_Main from Oct 29 may still be known to Fusion, and the bridge source itself warns that two libraries with the same name confuse ADD. Second, the library's 3D packages point to cloud files in a different Fusion project ("Adom AI Workspace") and are marked locally modified.

Verdict: bridge side (with a small Autodesk part)

• **Bridge:** loading the library failed silently. fusion_schematic_run should check that USE worked before it sends any ADD. If the first ADD fails, it should stop with a clear error instead of trying every part.

• **Bridge:** it clicks OK on the assert dialog automatically. That rule was written for a harmless routing assert, but here it hid the real failure and let the run go on for minutes after AI Flow timed out.

• **Autodesk:** Fusion should show a normal "part not found" message instead of an internal assert. This is worth reporting, but it is not the cause.

Note: nothing in Fusion was touched while this report was written.