

STEREO IMPACT

PROBLEM REPORT

PR-3013
Reichenthal
5/13/05

PR Numbers: 1xxx=UCB, 2xxx=Caltech/JPL, 3xxx=UMd, 4xxx=GSFC/SEP, 5xxx=GSFC/Mag,
6xxx=CESR, 7xxx=Keil, 8xxx=ESTEC, 9xxx=MPAe

Assembly : SIT Instrument	SubAssembly :
Component/Part Number:	Serial Number: 01
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Failure Occurred During (Check one)

Functional test Qualification test S/C Integration Launch operations

Environment when failure occurred:

Ambient Vibration Shock Acoustic
 Thermal Vacuum Thermal-Vacuum EMI/EMC

Problem Description

During setup for thermal vacuum tests, a spacecraft thermostat was found not fully attached to the electronics box on the FM1 flight unit. This thermostat is located in the back of the instrument on the bottom left. There 2 spacecraft thermostats on each instrument. These thermostats are redundant and are hooked up in series.

Analyses Performed to Determine Cause

The staking on the thermostat was not inspected after it had been cured.

Corrective Action/ Resolution

Rework Repair Use As Is Scrap

- 1 For the thermal vacuum test Y966 acrylic was applied to the thermostat and testing proceeded.
2. After the thermal vacuum tests was completed, the thermostat was epoxied properly to the electronics box and inspected.
3. The following open items were found before test that need to be closed out after the test.
 - a. FM1 is missing copper tape on the heaters. (Update 7/23/2005) Copper tape is now on the heaters.
 - b. 4 - G10 washers need to be found. (Update 7/23/2005) All washers have been located.
 - c. Install HV disable plug and red tag cover on both units. HV disable plug and red tag cover installed at APL on 8/5/2005.

Date Action Taken: 7/23/2005, 8/5/2005

Retest Results: Both flight units completed final inspection

Corrective Action Required/Performed on other Units Serial Number(s): ___n/a___

Closure Approvals

Subsystem Lead: _____ Date: _____
IMPACT Project Manager: _____ Date: _____
IMPACT QA: _____ Date: _____
NASA IMPACT Instrument Manager: _____ Date: _____