STEREO IMPACT

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 : N/A**
Component/Part Number:	**Serial Number: FM1/FM2**
Originator: Gibb	**Organization: GSFC**
Phone : 301-286-0213	**Email : lgibb@pop400.gsfc.nasa.gov**

Failure Occurred During (Check one √)

□ Functional test □ Qualification test □ S/C Integration □ Launch operations

Environment when failure occurred:

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

Problem Description

1. FM1/FM2: HVPS & Pin puller connector designations and Nanohex connector designations are not marked.
2. FM1/FM2: Slight damage to VDA/Kapton strip on top of collimator.
3. FM1: Missing screw on top cover. An attempt was made to install a screw but it would only spin and then could not be removed.
4. FM1/FM2: Ty-straps have not been staked in all locations.
5. FM1/FM2: Empty hole (unused location) on telescope back panel.
6. FM2: Telescope back panel; One screw (bottom right corner) is broken off and has been staked. Third screw from the bottom (right side) is broken off. Telescope panel (right side) lower front screw is broken off and rim of countersunk hole is burred.
7. Scratches on front (center) of HVPS. FM1: Scratches by single Nanohex connector. Caused during epoxy removal for rework operations.
8. FM1: Start signal cable shrink tubing is split at the back of the Nanohex connector.

Analyses Performed to Determine Cause

These problems are the result of design oversights and difficulties encountered during assembly and re-assembly after rework operations. Some issues are the result of poor handling techniques.

Corrective Action/ Resolution

X Rework □ Repair □ Use As Is □ Scrap

1. The high voltage connector is permanently mated, and any marking for the pin puller connector would be hidden by the blanketing that is due to be installed. Nanohex connectors are marked on each cable. Use-as-is.
2. Damage is slight and will not affect form, fit, or function. Use-as-is.
3. Fill the counter-bored hole that the screw goes in with Uralane 5753 staking material.
4. Use of staking material is to be kept at a minimum due to sensitivity of detectors. Use-as-is.
5. Install screw, torque to ~32 in/oz and then stake.
6. Stake broken screws in place with Uralane 5753. Stake burred hole.
7. Will not affect form, fit, or function. Use-as-is.
8. Wrap with two layers of Kapton tape and stake in place with Uralane 5753.

Date Action Taken:____8/1/2005 **Retest Results**:_Final Inspection completed on both FM1/FM2_____ **Corrective Action Required/Performed on other Units** □ Serial Number(s): ___n/a_____

Closure Approvals

STEREO IMPACT

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