PFR-182 Title: P3 T1 Thruster/Rollover Cart Interference

Assembly : F3 T1 Thruster	**SubAssembly : Sensor**	
Component : Detector	**Units Affected:** o o x o o o	**Units fixed:** o o o o o o
Originator: Gregory Dalton		
Organization: SSL	**Date: 23 May 2006**	
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Failure Occurred During (Check one √)

□ Functional test □ Qualification test □ S/C Integration □ Launch operations X Other Rollover

Environment when failure occurred:

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

Problem Description

While rotating the F3 probe in the Rollover Fixture, the T1 Thruster Cover (a red-tag item) came in contact with the rollover fixture. Greg Dalton and Chris Scholz were performing the rollover, and Rommel Zara was observing the clearance.

Analyses Performed to Determine Cause

The probe was oriented in the rollover fixture with the ESA and SST's near the pivot points. The probe had been oriented in the same position at JPL before thermal vacuum testing. However, there was not an issue since the covers had been removed for TVAC testing.

Corrective Action/ Resolution

Per THM-MINT-PROC-056, step 9.e.6, rotate the probe, "…carefully observing Probe-Fixture clearance…" For future rollover procedures, careful care must be taken to ensure this step is strictly observed. QA will observe the clearance with authorized personnel performing the rollover.

T1 Thruster alignment will be verified against spacecraft reference coordinates. This will be performed with the Faro Arm at JPL, but no misalignment is expected.

Acceptance:

MAM: Ron Jackson_____; MSE: Ellen Taylor_____

PM: Peter Harvey_____; Cognizant Engineer_____

Date of Closure_____