

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: HOOD ASSEMBLY
 ASY P/N: SED 6410417-703

SYSTEM: OMDA
 SUBSYSTEM: STRUCTURAL

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION HIGH GROUND	CORRECTIVE ACTION TIME AND HOW IT WAS ACCOMPLISHED	CRIT. INT.	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
REFERENCE #0 Hood Assembly (4) SED 4001511-703	Structural support for the OMDA. There are four hook assemblies holding the OMDA to the OMDA.	All Modes: Hook break/ nut/back on Cause: • Shock • Lubrication • Overload • Defective material	Launch/Landing	OMDA over loaded by remaining hook assemblies	None unless OMDA becomes completely detached and is damaged	Possible crew injury if OMDA becomes completely detached from (also will)	Flight visual after two or more failures Ground VISIBLE 100	None	3/18	Analysis indicates a positive margin of safety exists if two hook assemblies become detached. Additionally for the OMDA to become completely detached two hook assemblies would have to break. The main factor affecting the stresses on the hook assembly is the preload in the bolt due to the loads caused by launch and landing.

SECTION
 ATTACHMENT -
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