

Grumman Corporation

# CRITICAL ITEMS LIST

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**GRUMMAN**

ASSY NOMENCLATURE: MANIPULATOR FOOT RESTRAINT

PREPARED BY: L. NAWN & F. PERAZZO

REPORT NO. RMS 87-88

ASSEMBLY PART NO: SED 3518340

REVISION: A

DATE: 17 MAY 1988

FMEA REF	REV	NAME, QTY & DRAWING REF DESIGNATION	CRIT	FAILURE MODE AND CAUSE	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
A3	A	Adaptive Payload Carrier (APC) Interface Mechanism  QTY (1) DWG C95-101	2/2	A3 - Latch fails to open due to contamination or galling.	<p><b>END ITEM</b> Unable to open latch</p> <p><b>GFE INTERFACE</b> Unable to remove MFI from APC</p> <p><b>MISSION</b> Loss of MFR function; unable to accomplish mission objectives.</p> <p><b>CREW/VEHICLE</b> None</p>	<p><b>A. Design</b> Materials per tables 1 &amp; 2 of MSFC-SPEC-522A are certified for traceability/quality. Anodic hardcoating per MIL-A-8625C on aluminum interfaces with relative motion minimizes galling and wear. Contamination caused by corrosion by products eliminated by extensive use of thermal control coating and solid (Moly di-sulfide) lubricant coating.</p>

