

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: RMS IFM DAC KIT
ASSY PIN: 88D3210306-200

SYSTEM: REMOTE MANIPULATOR SYSTEM
SUBSYSTEM: RMS IN-FLIGHT MAINTENANCE DAC KIT

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION FLIGHT GROUND	CORRECTIVE ACTION TIME AVAILABLE/ TIME REQUIRED	CRIT. H/F	HAZARDS/REMARK
				END ITEM	MISSION	CREW/VEHICLE				
EE COMMAND SIGNAL CIRCUIT (continued)		<p>7040 Mode: Capacitor C2 fails short</p> <p>Cause: • structural failure • mechanical stress • vibration • electrical stress</p>	Orbit	<p>Short of 20 V dc to EE command return results in loss of end effector functions</p> <p><u>Work Case</u> Subsequent failure may result in inability to release a payload resulting in loss of crew/vehicle</p> <p><u>Remaining</u> Redundant Paths Backup mode RMS Jettison</p>		Subsequent failure may result in inability to release a payload resulting in loss of crew/vehicle	Operator detects EE not responding to commands EE TB's on RMS D B C Panel do not change	Release payload using backup release or jettison arm/ payload combination Immediate/ minutes	3/1R	<p><u>Redundancy Screens:</u> A - Pass B - Pass C - Pass</p>

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ATTACHMENT -
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SUPERSEDING DATE 9/10/89

ED BY R J Moore

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