

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION (FLIGHT/GROUND)	TIME TO EFFECT/ ACTIONS	CRIT	REMARKS/ HAZARD	REF
DISPLAY AND CONTROL ELECTRONICS, ITEM 350 ----- SV792291 (1)	Provides current limiting for EVC, feedwater solenoid and CLIV solenoid power. Provides optical isolation and discrete signal conditioning for CMB input discretes and EVC tone discretes. Contains battery current and voltage sense circuits, DCM display, and provides secondary power to DCM display, CMB, and sensors.	<p>SS4FMD2: Electrical short in primary EVC current limiter (input to output).</p> <p>CAUSE: Electrical short in wiring or electronic component.</p>	<p>PREEVA</p> <p>EVA</p>	<p>END ITEM: Loss of overcurrent protection for DCM for short circuits in EVC power circuits.</p> <p>GFE INTERFACE: None for single failure. Any subsequent short in the EVC power lines would cause fusing of EMU power return P.C. Trace to DCM. This would result in loss of all EMU electrical power.</p> <p>MISSION: None for single failure. Terminate EVA if second failure occurs which causes loss of EMU power.</p> <p>CREW/VEHICLE: None for single or double failure. Possible loss of crewmen with loss of SCP.</p>	<p>FLIGHT: No.</p> <p>GROUND: Yes. FEMU-R-001, Para. 7.3.3.2.1.1. 5 EVC and 5M Valve Current Limiters Vent.</p>	<p>None required.</p> <p>TIME AVAILABLE: N/A</p> <p>TIME REQUIRED: N/A</p>	<p>3/MR</p> <p>A-PASS B-PASS C-PASS</p>	<p>The redundant path in the SCP. Circuit breakers (current limiters) are stand by redundant.</p>	None.