

NAME P/N QTY	FUNCTION	FAILURE MODE & CAUSES	MISSION PHASE	FAILURE EFFECT	FAILURE DETECTION FLIGHT/GROUND	TIME TO EFFECT/ ACTION	CRIT	REMARKS/ HAZARD	REF
PAN SWITCH ITEM 306 BN771687-6 (1)	Provides a manual means of operating the 172 Pan/ Separator Water and the 172 Coolant Loop Isolation Valve (CLIV).	<p>364/FROG: CLIV switch fails in valve closed position.</p> <p>CAUSE: Contact welding due to arcing or hermetic seal failure and exposure to vacuum, jamming or shorting due to contamination. CLIV "Open" Contact fails Open.</p>	EVA	<p>EMU ITEM: Coolant loop isolated from water reservoir. Item 172 relief valve allows condensate to relieve to reservoir.</p> <p>E/E INTERFACE: None for single failure. If item 172 valve also fails closed, water will carryover into the vent loop.</p> <p>MISSION: None for single failure. Terminate EVA if item 172 fails closed.</p> <p>CREW/VEHICLE: None for single and double failure. Possible loss of crewman with loss of SOP.</p>	<p>FLIGHT: Yes. Minor fogging.</p> <p>GROUND: Yes. FEMU-R-001, Para. 7.3.3.2.1.1. & Coolant Isolation System Performance Item 171/ 172 and Item 128 Leakage test.</p>	<p>None.</p> <p>FINE AVAILABLE: M/A</p> <p>TIME REQUIRED: N/A</p>	<p>3/1R</p> <p>B-PASS B-PASS C-PASS</p>	<p>The redundant path is the 172 valve and the SOP. Additional water required to replace the oxygen removed from the liquid transport circuit is supplied by humidity removed from the vent loop.</p>	None