

# CRITICAL ITEMS LIST

ASSY NOMENCLATURE: SILVER-ZINC BATTERY CHARGER

Page 1 of 1

Assy P/N: S2B-20769

FUNCTION	FMEA		CRIT	FAILURE MODE AND CAUSE	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
	REF	REV				
Charged/Ready LED indicates that Battery Charger has finished charging	FM7	N/C	3/2 A - N/A B - N/A C - N/A	<p><b>MODE:</b> "Charged" LED will not operate.</p> <p><b>CAUSES:</b> LED failure Failure of Electronic Components Electrical Short or Open Circuit</p>	<p>End Item LEDs will not illuminate</p> <p>GFE Interface Erroneous "error" termination displayed (no LEDs)</p> <p>Mission Loss of Mission Objectives</p> <p>Crew/Vehicle None</p> <p>Time to Effect Immediate</p>	<p>1 <u>DESIGN</u> Established reliability LEDs are used for both "Charge" and "Ready" lights. Lamp test current is below 50% derating level, steady state on current is even less, to conserve power and prolong life. Reverse bias of LED impossible during operational use. Normal failure mode characterized by intensity deterioration over a long period of time.</p> <p>2 <u>TEST</u> PDA in accordance with Document # P52B/ATP-01001 and PIA in accordance with Document # P52B/PIA-01001 tests verifies LED operation. During each POR the LEDs are "Lamp Checked."  <ul style="list-style-type: none"> <li>Certified in accordance with Document # P52B CERT D1001, Para 4.2.3.6</li> </ul> </p> <p>3 <u>INSPECTION</u> PDA in accordance with Document # P52B/ATP-01001 and PIA in accordance with Document # P52B/PIA-01001 test results are verified by Quality Assurance.</p> <p>4 <u>FAILURE HISTORY</u> This is a new item. There is no failure history to date.</p>

DATE: 3/16/92

REVISION: BASIC

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