

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : INSTRUMENTATION

FMEA NO 05-4 -320402-1

REV: 2/5/88

ASSEMBLY : PANEL C3A7  
 P/N RI : ME452-0102-7203  
 P/N VENDOR:  
 QUANTITY : 1  
 : ONE  
 :

	VEHICLE	102	103	104
EFFECTIVITY:		X	X	X
PHASE(S):		PL X	LO X	OO X
			DO X	LS X

CRIT. FUNC: 2  
 CRIT. HDW: 2

PREPARED BY:  
 DES L MUCHOW  
 REL R GREGORIAN  
 QE E GUTIERREZ

REDUNDANCY SCREEN: A-N/A B-N/A C-N/A  
 APPROVED BY:  
 DES L Muchow  
 REL R Gregorian 2-5-88  
 QE E Gutierrez

APPROVED BY (NASA): [Signature] 5/2/88  
 SSM [Signature] 2-11-88  
 REL [Signature] 2-10-88  
 QE [Signature] 2-11-88

Boatman 2/8/88

ITEM:

SWITCH, TOGGLE 2P3T PULSE CODE MODULATION MASTER UNIT (PCMMU) FORMAT

FUNCTION:

PCMMU FORMAT CONTROL. THE COMPUTER OR THE CREW MAY SELECT THE PCMMU FORMAT FIXED OR PROGRAMMABLE. BOTH PRIME AND BACKUP PCMMU'S UTILIZE THIS SINGLE DOUBLEPOLE SWITCH. 1/SWITCH, TOGGLE, 2P3T, ME452-0102-7203, REFERENCE DESIGNATOR: 35V73A3A7S8.

FAILURE MODE:

FAILS TO TRANSFER, SHORT TO CASE, POLE TO POLE SHORT, FAILS OPEN.

CAUSE(S):

PIECE PART STRUCTURAL FAILURE, CONTAMINATION, VIBRATION, MECHANICAL SHOCK, PROCESSING ANOMALY.

EFFECT(S) ON:

(A) SUBSYSTEM (B) INTERFACES (C) MISSION (D) CREW/VEHICLE

(A,B) PCM PROGRAMMABLE OR FIXED FORMAT SELECTION MAY CAUSE LOSS OF CERTAIN DATA.

(C) FAILURE MAY RESULT IN EARLY MISSION TERMINATION DECISION. PCMMU PROGRAMMABLE OR FIXED FORMAT SELECTION MAY CAUSE LOSS OF CERTAIN DATA.

(D) NO EFFECT.

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DISPOSITION & RATIONALE:

(A) DESIGN (B) TEST (C) INSPECTION (D) FAILURE HISTORY (E) OPERATIONAL USE

(A-D) FOR DISPOSITION AND RATIONALE, REFER TO APPENDIX A, ITEM NO. 1 -  
TOGGLE SWITCH.

(B) GROUND TURNAROUND TEST

PCOMU FORMAT CONTROL IS VERIFIED PRIOR TO EVERY FLIGHT.

(E) OPERATIONAL USE

NONE.