

SHUTTLE CRITICAL ITEMS LIST - ORBITER

SUBSYSTEM : COMMUNICATION & TRACKING FMEA NO 05-2A -21945 -2 REV: 01/06/83

ASSEMBLY : PNL A1A3				CRIT. FUNC:	2
P/N RI : ME452-0102-7201				CRIT. EDW:	2
P/N VENDOR:		VEHICLE	102	103	104
QUANTITY : 1		EFFECTIVITY:	X	X	X
: ONE		PHASE(S):	PL	LO	OO X DO LS

PREPARED BY:		REDUNDANCY SCREEN:	A-	B-	C-
DES REL 1-6-88 R K P LEE		APPROVED BY:	APPROVED BY (NASA):		
REL 1-6-88 A MASAI		DES 1-13-88	SSM	1-26-88	
QE 1-7-88		REL 1-14-88	REL	1-26-88	
		QE 1-14-88	QE R	1-26-88	

ITEM:
SWITCH, S/L A/A TOGGLE SWITCH, AIR TO AIR (A/A) BUS FOR SPACELAB (S/L) INTERFACE, DPDT.

FUNCTION:
D & C MANUAL CONFIGURATION OF THE AUDIO DISTRIBUTION SYSTEM VIA THE RIGHT ATU & MS ATU. SELECTS THE A/A BUS FOR THE SPACELAB (S/L) INTERFACE, ON-OFF. THE SPACELAB INTERFACE IS ONLY ACTIVE WHEN THE SPACELAB IS INSTALLED PER THE FLIGHT MANIFEST. 36V73A1A3S28.

FAILURE MODE:
SHORT-TO-CASE (GROUND)

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) FUNCTIONAL DEGRADATION. LOSS OF CAPABILITY TO SELECT ANY OF THE AUDIO DISTRIBUTION BUSES FOR THE SPACELAB INTERFACE EXCEPT CAUTION AND WARNING TONES.

(C,D) LOSS OF MISSION IF AUDIO IS REQUIRED FOR SPACELAB INTERFACE.

DISPOSITION & RATIONALE:
(A) DESIGN (B) TEST (C) INSPECTION (D) FAILURE HISTORY (E) OPERATIONAL USE
(A,B,C,D) REFER TO APPENDIX A, ITEM # 1, TOGGLE SWITCH

(B) TEST
GROUND TURNAROUND TEST - AUDIO SPACELAB OPERATION VERIFICATION - PERFORMED TO SUPPORT FLIGHT MANIFEST.

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(E) OPERATIONAL USE

WIRELESS UNIT CAN BE INSTALLED AT THE AIRLOCK ATTU'S TO PROVIDE AUDIOIC
CAPABILITY FOR THE SPACELAB.