

# FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: MAIN PARACHUTE  
 ASSY P/N: SN 1103420007

SYSTEM CREW ESCAPE SYSTEM  
 SUBSYSTEM PERSONAL PARACHUTE ASSEMBLY

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION		FORMING ACTION TIME AVAILABLE TIME REQUIRED	CRIT R/F	HAZARD/REMARKS
				END ITEM	MISSION	CREW/VEHICLE	FLIGHT	GROUND			
4 0 MAIN PARACHUTE SN 1103420007	To slow crew members descent to an acceptable rate										
4 1 MAIN CANOPY SN 1103420007	Provide the necessary drag to slow crew members descent to acceptable rate	4.1.1 Mode: Canopy seam rips  Cause: • Excessive opening loads • Defective materials	Descent	Excessive descent rate of more than three seats rip	N/A*	Possible loss of life if more than three seats rip	Visual	None	SEAR	Loss of two ropes will have minimal effect	
4 2 SUSPENSION LINES SN 1103420007	To connect the canopy to the link connector	4.2.1 Mode: Suspension lines break  Cause: • Excessive opening loads • Defective materials	Descent	Canopy collapse if more than five lines break	N/A*	Possible loss of life if more than five lines break	Visual	None	SEAR	22 lines total. No more than four cut/tear. Five cut/tear will have a maximum of five cut/tear	

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 ATTACHMENT  
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