

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: EMBRAZT, ERD-700
 ASSY P/N: 500-00100100-700

SYSTEM: CREWESCAPE SYSTEM
 SUBSYSTEM: EMBRAZT, ERD-700

REV: _____ DATE: _____
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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION <small>PERIOD GROUND</small>	CORRECTIVE ACTION <small>HOW AVAILABLE? TIME REQUIRED?</small>	CRIT. H/F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
13 Manifold Stem Assembly	CO ₂ bottle connection to lateral	1.3.1 Mode: External leakage Cause: • Contamination • Defective heat seal • Vibration	Recovery	Unable to maintain required pressure to keep lateral inflated	N/A*	Possible loss of crewmember if automatic inflation of oral inflation assembly fails	Visual	Orally inflate to maintain pressure Inspect Replace	NR	
14 FEU 9 Inflation Assembly	Pyrrotechnic activated punctures CO ₂ bottle that inflates upper chamber upper motor entry and releases upper closure	1.4.1 Mode: Fails to puncture CO ₂ bottle Cause: • Pinning • Sensor pin broken • Sensor inhibitor short or open circuit • Depleted batteries • Component failure	Recovery	Upper chamber will not be inflated	N/A*	Possible loss of crewmember if FEU 9 or oral inflation assembly fails	Visual	Orally inflate chamber Inspect Replace	NR	The batteries are weak and when used

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 ATTACHMENT
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