

FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR: 4
NAME / QUANTITY: Push Lock Tether Tool
DRAWING REFERENCE: SED00127417

PROJECT: DTO 671 Program
LRU NAME / QUANTITY: Push Lock Tether Tool (PLTT) //
LRU PART NUMBER: SED00127417-301

SUBSYSTEM EFFECTIVITY: N/A
ALL ORBITERS

FAILURE MODE NUMBER	CRITICALITY	FAILURE EFFECT	FAILURE DETECTION METHOD
DTO671-64-4-2	1R/2		
FUNCTION The Push Lock Tether Tool (PLTT) is designed to attach and lock to a standard EVA tether loop. The PLTT tool is pressed onto a tether loop that actuates a link between two jaws. A sleeve slides over the captured tether loop which completes the locking action. The ratchet lock is released which allows the jaws to open and disengage the tether loop.		END ITEM The ORU comes loose and is unrestrained in the payload bay.	FLIGHT Visual.
FAILURE MODE AND CAUSE MODE The ORU comes loose from PLTT.		MISSION Loss of the APFR.	GROUND None.
CAUSE(S) 1) inadvertent actuation of lock sleeve. 2) Piece part failure. 3) Jaw pivot pins backs out.	CREW / VEHICLE Possible Impact of an EMU from loose equipment.		
REDUNDANCY SCREENS	REMAINING PATHS		
A - Pass B - N/A C - Pass	1) Lock sleeve.		
MISSION PHASE	CORRECTIVE ACTION TIMES		
	TIME TO EFFECT	TIME TO CORRECT	
EVA	Minutes	Seconds	

PREPARED BY: J. F. PARK

REVISION: A

SUPERSEDED DATE: NONE

DATE: 5/15/95