

## FAILURE MODES AND EFFECTS ANALYSIS

REFERENCE DESIGNATOR:  
NAME / QUANTITY:  
DRAWING REFERENCE

4  
Push Lock Tether Tool  
SEC00127417

PROJECT:  
LRU NAME / QUANTITY:  
LRU PART NUMBER:

DTO 671 Program  
Push Lock Tether Tool (PLTT) //  
SEC00127417-301

SUBSYSTEM: IWA  
EFFECTIVITY: ALL OPERATIONS

FAILURE MODE NUMBER DTO671-64-4-B	CRITICALITY 1R/3	FAILURE EFFECT	FAILURE DETECTION METHOD				
<b>FUNCTION</b> 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.		<b>END ITEM</b> The PLTT main housing becomes free from the RT assembly.  <b>MISSION</b> None.  <b>CREW / VEHICLE</b> Possible impact of an EMU from loose equipment.  <b>INTERFACE</b> None.	<b>FLIGHT</b> Visual.				
<b>FAILURE MODE AND CAUSE</b>  <b>MODE</b> PLTT Tether main housing inadvertently releases from the socket.  <b>CAUSE(S)</b>  1) Piece part failure of the locking mechanism. 2) Binding. 3) Contamination.			<b>GROUND</b> None.				
<b>REUNDANCY SCREENING</b>  A - Pass B - N/A C - Pass	<b>REMAINING PATHS</b>  1) Second ball plunger. 2) Retracting tether (72").		<b>CORRECTIVE ACTION</b> Crew shall be trained to assure that the tether assembly springs back and is locked properly prior to translation with an attached OIU.				
<b>MISSION PHASE</b>  EVA	<b>CORRECTIVE ACTION TIMES</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">TIME TO EFFECT</th> <th style="width: 50%;">TIME TO CORRECT</th> </tr> <tr> <td style="text-align: center;">Minutes</td> <td style="text-align: center;">Second</td> </tr> </table>		TIME TO EFFECT	TIME TO CORRECT	Minutes	Second	<b>REMARKS</b> None.
TIME TO EFFECT	TIME TO CORRECT						
Minutes	Second						

PREPARED BY: J. F. PANK

REVISION: BASIC

SUPERSEDING DATE: NONE

DATE: 4/1/90