

Document No: 18901-70131D  
 Release Date: 10/30/95  
 Revision Date: 09/06/96  
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**Failure Modes and Effects Analysis/Critical Items List**

FMEA No:	OSS-ST576-10	Originator:	G. Hall	Project:	STS-76 DTO 671
Part Name:	Universal Foot Restraint	ORU Part #	SED33107063-301,-303	Quantity:	2
Part #:	SED33107063-301,-303	ORU Part Name:	Universal Foot Restraint	System:	EVA
Drawing:	SED33107072	Subsystem:	N/A	Effectivity:	STS-76

**Criticality:**

Critical Item?	Yes	No	<u>X</u>
Criticality Category	<u>1R/3</u>		

**Redundancy Screens:**

- A - Pass
- B - Pass
- C - Pass

Function: Provides foot restraint for working EVA crewmember  
 Failure Mode: Boot stuck in UFR  
 Cause: Contamination, mechanical failure

Remaining Paths:	1) Remove UFR from sprocket. Return to pressurized area. 2) Remove heel retainer, remove boot 3) Adjust toe bar, remove boot.	Effect/Mission Phase:	EVA
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Corrective Action: None

**-Failure Effects-**

End Item: Foot restraint inoperable  
 Interface: None  
 Mission: N/A  
 Crew/Vehicle: Crewmember entrapped by foot restraint

**Hazard Information:**

Hazard:	Yes	No	<u>X</u>
Hazard Organization Code:		N/A	
Hazard Number:		N/A	

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**Failure Modes and Effects Analysis/Critical Items List**

FMEA No:	OSS-ST576-10	Originator:	G. Hall/OSS	Project:	STS-76 DTO 671
Part Name:	Universal Foot Restraint	ORU Part #	SED33107063-301,-303	Quantity:	4
Part #:	SED33107063-301,-303	ORU Part Name:	Universal Foot Restraint	System:	EVA
Drawing:	SED33107063	Subsystem:	N/A	Effectivity:	STS-76
Time to Effect:	N/A				
Time to Detect:	N/A				
Time to Correct:	N/A				
Failure Detection/Flight:	N/A				

Remarks:

**-Retention Rationale-**

(A) Design:	N/A
(B) Test:	N/A
(C) Inspection:	N/A
(D) Failure History:	N/A
(E) Operational Use:	N/A

Prepared By:	G. Hall/OSS	Revision:	B	Date:	02/26/96
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