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**FAILURE MODE EFFECTS ANALYSIS/CRITICAL ITEMS LIST**


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FMEA NUMBER: PRD-FM02

ORIGINATOR: JSC

PROJECT: GFE - SHUTTLE

PART NAME: Kevlar Webbing Assy, Short  
 LRU PART NUMBER: 10163-10063-03  
 DRAWING:

PART NUMBER: 10163-20051-02  
 LRU PART NAME: PRD  
 SUBSYSTEM: PRD

QUANTITY: 1  
 SYSTEM: EVA Tools  
 EFFECTIVITY: STS-70

CRITICALITY:

CRITICAL ITEM? NO

CRITICALITY CATEGORY 1R/3

REDUNDANCY SCREEN:

A - PASS  
 B - PASS  
 C - PASS

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 FUNCTION: Provides means of anchoring PRD to orbiter.
 

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FAILURE MODE: Loss of strap.

CAUSE: Defective material, abrasion or damage, broken stitches.

FAILURE DETECTION: N/A

REMAINING PATHS: Spare PRD

EFFECT/ MISSION PHASE: EVA

CORRECTIVE ACTION:

Use spare PRD or jettison RMS or payload.

-FAILURE EFFECTS-

END ITEM: Strap separates from PRD.

INTERFACE: PRD separates from vehicle and is unable to hold payload or doors.

MISSION: Possible loss of payload or assistance in securing orbiter systems for entry.

CREW/VEHICLE : Possible vehicle damage from unsecured payload. Loss of vehicle if PLB doors can't be closed.

HAZARD INFORMATION:HAZARD: YES X NO

HAZARD ORGANIZATION CODE:

HAZARD NUMBER: PRD0001000

TIME TO EFFECT: Immediate  
 TIME TO DETECT: Immediate  
 TIME TO CORRECT: Minutes  
 FAILURE DETECTION/FLIGHT: Visual

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**LRU PART NUMBER: 10163-10063-03**  
**DRAWING:****PART NUMBER: 10163-20051-02**  
**LRU PART NAME: PRD**  
**SUBSYSTEM: PRD****QUANTITY: 1**  
**SYSTEM: EVA Tools**  
**EFFECTIVITY: STS-70**

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**REMARKS:**

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**-RATIONALE FOR ACCEPTABILITY-****(A) DESIGN: N/A****(B) TEST: N/A****(C) INSPECTION: N/A****(D) FAILURE HISTORY: N/A****(E) OPERATIONAL USE N/A****(F) MAINTAINABILITY: N/A**

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**PREPARED BY: C. L. Hartman****REVISION:****DATE: 05/24/95****WAIVER NUMBER:**

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