

CIL
CRITICAL ITEMS LIST

ASSEMBLY NAME/PART NUMBER: CABLE CUTTER ASSY/10159-10456-02
 Reference: CIL CC
 Prepared By: C. Hartman Approved By: W. Wilkey
 Supervising Date: 11/80 Sales 1/81 Rev: A

NAME P/N QUANTITY	CRIT	FAILURE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
Cable Cutter 10159-10456 1-02, Site 5.2 One	2/10	S. 2F003 Blades fail to cut. CAUSE: Defective material. Damage, impact.	END ITEM: Blades unable to cut cable. EFE INTERFACE: Cable can be cut with back-up cable cutters. MISSION: Additional time required to complete task. CREW/VEHICLE: Possible loss of crew/vehicle with loss of back-up cable cutters.	A. DESIGN: The Cable Cutter Blade Assembly consists of two components: The stationary blade and the ratcheting blade. Both blades are fabricated from 13-8 00 stainless steel and heat treated to H1000. The Cable Cutter is stored in a foam cushion in the Payload Bay PBA to protect it from the possibility of damage from impact. B. TESTS: Component Acceptance Test - None PBA Test - The following tests are conducted at the Cable Cutter Assembly Level in accordance with ILC Document 10107-70497: 1. Functional test to verify jaws fully close. 2. Functional test to verify jaws cut cable properly. Certification Test - The Cable Cutter was certified for worst case PBA Storage temperature range of -200 degrees F to +250 degrees F. It was functionally tested to demonstrate ability to cut wire bundles at -200 degrees F to +250 degrees F. Cutting blades were dye penetrant tested before and after the functional test exhibited no damage.

SECTION
ATTACHMENT
PAGE 93 OF

441
CRITICAL ITEMS LIST

ASSEMBLY NAME/PART NUMBER: CABLE CUTTER ASSY/10159-1005A-02
 Reference: CIL_CC
 Prepared By: E. Hartson
 Approved By: W. Mether
 Superseding Date: 11/88
 Date: 1/89 Rev: A

NAME P/N	QUANTITY	CRIT	FAILURE MODE & CAUSES	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
Cable Cutter 10159-1005A 1-02, Item 3.2 18aa		Z/N	S.2FMM1 Blades fail to cut.		<p>C. INSPECTION: Components and material manufactured to ITC requirements of an approved supplier are documented from procurement through shipping by the supplier. ITC incoming receiving inspection verifies that the materials received are as identified in the procurement documents, that no damage has occurred during shipment and that supplier certification has been received which provides traceability information.</p> <p>The following SIP's are performed during the Cable Cutter Assembly manufacturing process to assure the failure causes are precluded from the fabricated items:</p> <ol style="list-style-type: none"> 1. Inspection to fabrication drawing. 2. Visual inspection for damage or material degradation.

PJE/CCA - 2

S80210V
ATTACHMENT -
Page 94 of 153

DOCUMENT NO. 10444-70714 A
 Release Date
 Page 82-2 of 82-18

CII
CRITICAL ITEMS LIST

ASSEMBLY NAME/PART NUMBER: CABLE CUTTER ASBY/ER159-10034-D2
 Reference: CII_EC
 Prepared By: C. Hartman
 Approved By: M. Milroy
 Superseding Dates: 1/88
 Date: 1/89 Rev: A

NAME P/N QUANTITY	CRIT	FAILURE MODE & CAUSE	FAILURE EFFECT	RATIONALE FOR ACCEPTANCE
Cable Cutter 10034-10034 -01, Item 3.2 Doc	2/18	3.2FN01 Blades fail to cut.		<p>During PIR, the following inspection points are performed at the Cable Cutter Assembly level in accordance with ILC Document 10107-70497:</p> <ol style="list-style-type: none"> 1. Verification of conformance to drawing. 2. Inspection for damage or material degradation. <p>D. FAILURE HISTORY: None</p> <p>E. GROUND TURNAROUND: During ground turnaround, in accordance with ILC Document 10107-70713, the Cable Cutter is inspected for damage.</p> <p>F. OPERATIONAL USES:</p> <ol style="list-style-type: none"> 1. Crew Response PRE/POST EVA - N/A EVA - Cut cables using back-up Cable Cutter stored in PBA or attempt to manually disconnect cables. 2. Training Crew Briefing. 3. Operational Considerations Task may require additional time.

S40210W
ATTACHMENT -
PAGE 95 of 1