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AEROSPACE

## SERVICE BULLETIN

**NUMBER:** SB 500-39-001, REV A  
**MODEL:** ECLIPSE EA500  
**SUBJECT:** WIRE HARNESS INSPECTION AND REPAIR - BATTERY AREA

### 1. PLANNING INFORMATION

#### A. Effectivity

Aircraft Serial Numbers 0001 - 0300.

#### B. Reason

This Service Bulletin has been prepared to confirm integrity of the wiring in the nose area following battery removal and installation.

#### C. Description

This Service Bulletin provides procedures to inspect the wiring harness segment located between the aircraft batteries for damage, to repair any damage present, and to protect the wiring harness segment as described herein.

#### D. Relevant Publications

None

#### E. Compliance

Eclipse Aerospace Incorporated considers this to be an recommended inspection/modification that can be accomplished at the operator's discretion. Recommend compliance at next access opportunity or next 300 hour inspection.

#### F. Approval

This Service Bulletin is based on engineering data that is FAA-approved, and the modification herein complies with the applicable regulations.

#### G. Labor Requirements

The following information is for planning purposes only.

(1) Estimated labor hours to perform:

Suggested number of personnel: 1

Job Set-up and Job Close-up: 0.5 Hours

Inspection: 0.5 Hours

Harness Protection Enhancement: 0.5 Hours

**Total labor hours: 1.5**

The above is an estimate based on properly equipped and experienced personnel complying with this Service Bulletin. Actual labor hours may vary depending on workforce experience, concurrent maintenance, discovery of other discrepancies, etc.

(2) Qualification of personnel:

- A person properly authorized under 14 CFR 43 to perform aircraft maintenance.

#### H. Weight and Balance Change

Negligible



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**I. Electrical Load Data Change**

Negligible

**J. Software Accomplishment Summary**

None

**K. References**

Aircraft Maintenance Manual (AMM), P/N 06-117751, latest revision.

Wiring Repair Manual (WRM), P/N 06-120792, latest revision.

**L. Publications Affected**

None

**2. MATERIAL INFORMATION**

**A. Consumables**

The following consumables are required for this Service Bulletin.

Material	Specification	Use
Convolex Conduit	HCTE-0875 or equivalent <sup>[1]</sup>	Harness protection
Mox Tape	A-A-59163 (MOX tape 600-R Series) or equivalent	Harness protection
Tie String, Nylon	Breyden Products: 103-2, (MIL-T-43436B, Type 1) or equivalent	Harness protection
Teflon Tape	MIL-I-23594 or equivalent	Harness protection

<sup>[1]</sup> It is permissible to use a larger diameter of HCTE-( ) Convolex Conduit if repairs were accomplished resulting in increased harness bundle diameter.

**B. Interchangeability/Intermixability of Parts**

None

**C. Part Re-identification**

None.



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## 3. ACCOMPLISHMENT INSTRUCTIONS

### A. Procedure

#### (1) Job Set-up,

- (a) Make the aircraft safe for maintenance. Refer to AMM - 20-00-01 - MAKE SAFE FOR MAINTENANCE.
- (b) Remove nose access panel 211 CT. Refer to AMM - 53-10-11 - NOSE ACCESS PANEL - REMOVAL.

Sign Off

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#### (2) Inspection

- (a) Inspect wire harness P/N 39-108843 (Figure 1) segment located between the aircraft batteries for damage. If damage is found, repair per Wiring Harness Repair Manual.

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**Wire Harness P/N 39-108843 Typical Damage  
Figure 1**



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(3) **Damage Preventive Procedure**

Refer to Wiring Harness Repair Manual (Misc. Protective Cover Stock) for additional guidance on application of materials.

(a) Apply two wraps of Teflon tape centered where the conduit should begin and end. \_\_\_\_\_

(b) Install split Convolex Conduit P/N HCTE-0875 or equivalent as shown in [Figure 2](#). \_\_\_\_\_

NOTE: If split Convolex Conduit is not available, it is permissible to split the Convolex Conduit with scissors.

NOTE: It is permissible to use a larger diameter of HCTE-( ) Convolex Conduit if repairs were accomplished resulting in increased harness bundle diameter. The size indicated (HCTE-0875-0) is based off of a nominal harness with no repairs. There should be no gap showing where the Convolex Conduit material was split when installed. If a gap is present, a larger diameter should be used.

(c) Wrap Convolex Conduit with Mox Tape at each end and use string tie to secure Mox Tape. Refer to Wiring Repair Manual, para 3.33.1.3. \_\_\_\_\_

(d) Install String Tie every 3 inches of the length of the Convolex Conduit. \_\_\_\_\_

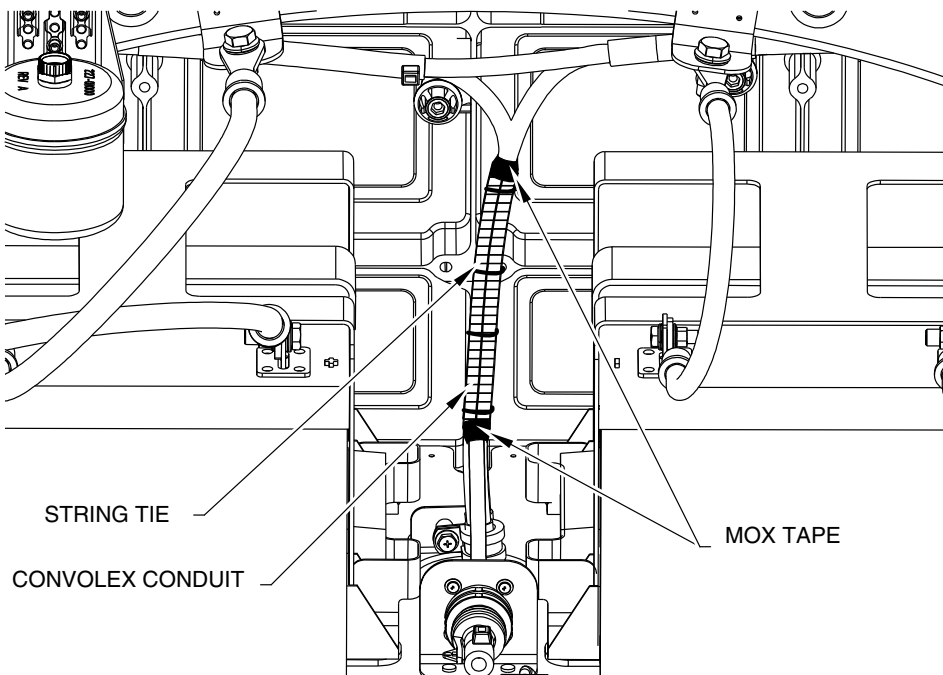
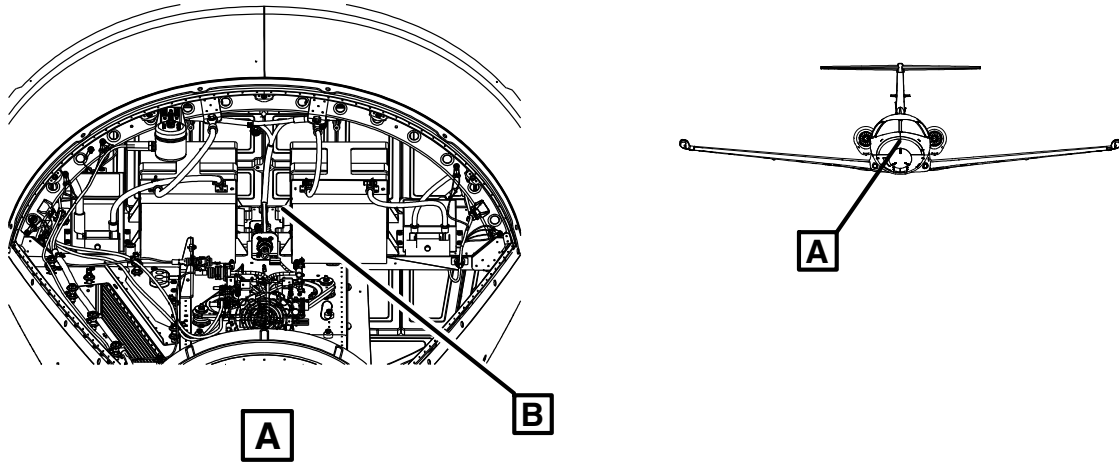
NOTE: Do not over tighten String Tie as to collapse the Convolex Conduit.



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**B**

**Wire Harness Protection  
Figure 2**

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**(4) Job Close-up**

- (a) Install nose access panel 211 CT. Refer to AMM - 53-10-11 - NOSE ACCESS PANEL - INSTALLATION. \_\_\_\_\_
- (b) If all other maintenance is complete, return the aircraft to service. Refer to the AMM - 20-00-02 - RETURN TO SERVICE (AFTER MAINTENANCE). \_\_\_\_\_

**B. Limitations and Procedures**

None

**C. Cost**

Contact Eclipse Aerospace Inc. for cost and availability.

**4. RECORD OF COMPLIANCE**

Upon completion of this Service Bulletin, make an appropriate maintenance-record entry specifying the Service Bulletin number.

**5. NOTIFYING ECLIPSE AEROSPACE**

On completing this service bulletin, the operator/maintainer shall complete the attached Compliance Record and send it to Eclipse Aerospace via regular mail, fax, or e-mail.

Mailing Address	Eclipse Aerospace Incorporated ATTN: Customer Care 2503 Clark Carr Loop SE Albuquerque, NM 87106
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