

NUMBER: SB 500-24-008, Rev B
MODEL: ECLIPSE EA500
SUBJECT: External Power Receptacle Inspection

Mandatory

www.ECLIPSE.aero

1. PLANNING INFORMATION

A. Effectivity

Aircraft Serial Numbers: 000001 to 000262, 000266 and 000267

B. Reason

This Service Bulletin inspects for damage to the External Power Receptacle installation and surrounding structure.

Revision B of this Service Bulletin updates the Compliance statement.

C. Description

This Service Bulletin provides instructions to inspect for damage, and if found, follow-on action.

D. Relevant Publications

06-117751, EA500 AMM, current revision

E. Compliance

Eclipse Aerospace Inc. considers this to be a mandatory bulletin that must be accomplished at each 300 hour / 24 month inspection until MB 500-24-008, most current revision, is accomplished.

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

Estimated in service days: 1

Total labor hours: 2.5 to 3 hours

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

N/A

I. Electrical Load Data Change

N/A

J. Software Accomplishment Summary

N/A

K. References

MB 500-24-008, Modification Bulletin, External Power Receptacle Bonding Improvement
06-117751, EA500 AMM, current revision

L. Publications Affected

06-117751, EA500 AMM, current revision

2. MATERIAL INFORMATION

A. Materials

N/A

B. Interchangeability/Intermixability of Parts

N/A

C. Part Re-identification

None

D. Consumables

N/A

E. Tooling

N/A

F. Cost

Contact Eclipse Aerospace Customer Care for information and availability.

3. ACCOMPLISHMENT INSTRUCTIONS

A. Procedure

- (1) Make the aircraft safe for maintenance. Refer to AMM 20-00-01 MAKE SAFE FOR MAINTENANCE.
- (2) Gain access to the interior of the External Power Receptacle by removing:
 - (a) The 251 FL - Left Aft Wing-to-Body Fairing, per AMM-53-11-13.
 - (b) The 252 EL - Right Aft Wing-to-Body Fairing, per AMM-53-11-13.
 - (c) The 321 DB - Vertical Access Panel, per AMM-55-30-13.
- (3) Perform a DVI (Detailed Visual Inspection) of the wing-to-body fairing heat-related damage. Refer to Figure 1 through Figure 3 for examples of external electrical damage.

Typical fairing external damage may be:

 - scorching of fasteners or structure
 - discoloration of fasteners or structure
 - missing material
- (4) Perform a DVI (Detailed Visual Inspection) of the External Power Receptacle Installation for corrosion and heat-related damage. Refer to Figure 4 through Figure 6 for examples of internal electrical damage.

Typical internal damage may be:

 - discoloration of fasteners or structure
 - material erosion along edges
 - Corrosion as evidenced by white powder (Aluminum Oxide) buildup
- (5) If evidence of damage is found, contact Eclipse Service Engineering for additional instructions.
- (6) Remove all tools, equipment and unwanted material from the work area.
- (7) Reinstall the following:
 - (a) The 251 FL - Left Aft Wing-to-Body Fairing, per AMM-53-11-13.
 - (b) The 252 EL - Right Aft Wing-to-Body Fairing, per AMM-53-11-13.
 - (c) The 321 DB - Vertical Access Panel, per AMM-55-30-13.
- (8) 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

N/A

C. Parts Disposition

N/A



Figure 1. Electrical Damage Example



Figure 2. External Power Receptacle Rivet Corrosion



Figure 3. External Electrical Damage



Figure 4. Internal Electrical Damage



Figure 5. Internal Electrical Damage



Figure 6. Internal Electrical Damage

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: Service Engineering 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
E-mail	sbcompliance@eclipse.aero

[Intentionally Blank Page]

