

SERVICE BULLETIN

NUMBER: 500-24-002
MODEL: Eclipse EA500
SUBJECT: Battery Bus Contactor and External Power Contactor Upgrade

1. Planning Information

A. Effectivity

(1) Aircraft

Aircraft Serial Numbers 000001 through 000012.

(2) Spares

- All Battery Bus Contactors PN 1181-2 must be pulled from stock and returned to Eclipse Aviation for upgrade.
- All External Power Contactors PN 1165-2 must be pulled from stock and returned to Eclipse Aviation for upgrade.

B. Reason

The Battery Bus Contactor (BBC) and External Power Contactor (EPC) have been upgraded as a product improvement.

C. Description

This Service Bulletin (SB) replaces the BBC and EPC with upgraded hardware.

D. Relevant Publications

Refer the operator/maintainer to any other relevant documentation, such as previously issued Service Bulletins.

E. Compliance

Eclipse Aviation Corporation considers this to be a mandatory modification that must be accomplished within 60 days from the issue date of this SB:

F. Approval

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

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G. Labor Requirements

The following information is for planning purposes only.

(1) **Estimated labor hours to perform:**

- Aircraft preparation; Removal and Installation of panels etc. 1.5 Hours
- BBC Removal and replacement: 1.0 Hours
- EPC Removal and replacement: 2.0 Hours
- Adjustment/Test of the Electrical Power Distribution System: 2.5 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) **Suggested number of personnel: 1**

(3) **Qualification of personnel:**

- Airframe & Powerplant (A&P) License

H. Weight and Balance Change

None.

I. Electrical Load Data Change

None.

J. Software Accomplishment Summary

Not Applicable.

K. References

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

Illustrated Parts Catalog (IPC), P/N 06-117752, latest revision.

Wiring Diagram Manual (WDM) P/N 06-117753, latest revision.

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2. Material Information

A. Materials

The following parts and/or kits are required for this Service Bulletin.

Part Number	Description	Qty Required
1181-3	Battery Bus Contactor	1
1165-3	External Power Contactor	1

3. Accomplishment Instructions

A. Consumable Materials

Material	Product
Sealant	PRC-Desoto epoxy sealant (PR-2001) or equivalent

B. Procedure

- (1) Make aircraft safe for maintenance. Refer to AMM - 20-00-01-051 - MAKE SAFE FOR MAINTENANCE.
- (2) Remove Battery Bus Contactor (BBC), part number 1181-2. Refer to AMM - 24-40-10-001-801 - EXTERNAL POWER CONTACTOR – REMOVAL.
- (3) Remove External Power Contactor (EPC), part number 1165-2. Refer to AMM - 24-40-10-001-801 - EXTERNAL POWER CONTACTOR – REMOVAL.
- (4) Install Battery Bus Contactor (BBC), part number 1181-3. Refer to AMM - 24-40-10-041-801 - EXTERNAL POWER CONTACTOR – INSTALLATION.
- (5) Install External Power Contactor (EPC), part number 1165-3. Refer to AMM - 24-40-10-041-801 - EXTERNAL POWER CONTACTOR – INSTALLATION.
- (6) Make sure all test and adjustment procedures referenced in the AMM installation procedures have been completed. If all other maintenance is completed, return the aircraft to service.

C. Limitations and Procedures

This SB shall be accomplished in its entirety. It is not acceptable to replace the EPC or the BBC by itself.

D. Cost

Parts and Labor will be supplied by Eclipse Aviation Corporation at no charge to the aircraft owner. This SB will be accomplished at an Eclipse Aviation Service Center.

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E. Parts Disposition

Serviceable parts that are removed during this SB **must** be returned to the following address for disposition:

Eclipse Aviation
2800 Karsten Court SE
Albuquerque NM 87102.

4. Record of Compliance

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

5. Notifying Eclipse Aviation

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

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

Fax: 1-505-241-8802

E-mail: customercare@EclipseAviation.com

