

NUMBER: SB 500-76-002, Rev B  
MODEL: ECLIPSE EA500  
SUBJECT: FADEC Software Upgrade

**Mandatory**

[www.ECLIPSE.aero](http://www.ECLIPSE.aero)

## 1. PLANNING INFORMATION

### A. Effectivity

Aircraft Serial Numbers: 000001-000038, Post SB 500-99-001 and 000039-000262, 000266, and 000267.

Aircraft Serial Numbers: 550-0263 to 550-0265, 550-0268 to 550-0280, and 550-0282 to 550-0284.

### B. Reason

New FADEC Software has been developed to address the following items:

- Improved Thrust Lever Angle (TLA) fault accommodation
- A reduced acceleration schedule in the lower power region for sea level and 10K ft
- Updated transient excursion limit
- Updated thrust lever position threshold

Revision B of this Service Bulletin updates the effectivity and clarifies the compliance date.

### C. Description

This Service Bulletin identifies instructions for loading the new version of FADEC software.

NOTE: The FADEC must be updated on both engines of the aircraft (all four FADEC control channels) at the same time.

### D. Relevant Publications

06-117751 – EA500 AMM, current revision

### E. Compliance

Eclipse Aerospace Incorporated considers FADEC SW 0406 installation, per MB 500-76-001, to be an mandatory upgrade that must be accomplished within 300 hours of aircraft operation or 2 years from the date of this service bulletin.

This Service Bulletin must be accomplished at an Eclipse Aerospace Authorized Service Center.

Compliance with revision A of this Service Bulletin constitutes compliance with revision B.

### 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

Refer to MB 500-76-001, FADEC Software Upgrade.

### H. Weight and Balance Change

None

### I. Electrical Load Data Change

None

### J. Software Accomplishment Summary

Upgrade FADEC software to version V610F0406 per MB 500-76-001, FADEC Software Upgrade.

## K. References

Refer to MB 500-76-001, FADEC Software Upgrade.

## L. Publications Affected

None

## M. Export Control

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. These commodities, technology or software are intended for use only in the End User's country. An export license from the U.S. Department of Commerce may be required before these products can be re-exported, transferred, transshipped on a non-continuous voyage, or otherwise disposed of in any other country, either in their original form or after being incorporated into an end item. Diversion of this end-item or its use contrary to any applicable U.S. government license or to U.S. law is prohibited.

## 2. MATERIAL INFORMATION

### A. Materials

Existing FADEC cards will be upgraded to the new software.

### B. Consumables

None

### C. Tooling

Refer to MB 500-76-001, FADEC Software Upgrade.

### D. Interchangeability / Intermixability of Parts

N/A

### E. Part Re-identification

Refer to MB 500-76-001, FADEC Software Upgrade.

## 3. ACCOMPLISHMENT INSTRUCTIONS

### A. Procedure

Refer to MB 500-76-001, FADEC Software Upgrade.

### B. Limitations and Procedures

N/A

### C. Parts Disposition

N/A

### D. Cost

Contact Eclipse Aerospace Customer Care for cost and availability.

## 4. PART MARKING

Refer to MB 500-76-001, FADEC Software Upgrade.

## 5. RECORD OF COMPLIANCE

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

## 6. NOTIFYING ECLIPSE AEROSPACE

Upon incorporation of 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 Inc. ATTN: Customer Care 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
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