

SERVICE BULLETIN

NUMBER: SB 500-34-006
MODEL: Eclipse EA500
SUBJECT: Digital Flaps System Software Upgrade

1. Planning Information

A. Effectivity

Aircraft Serial Number 000002.

B. Reason

Software (SW) Upgrade for the Digital Flaps System (DFS) to improve the Cross Current Miscompare function.

C. Description

This Service Bulletin (SB) verifies the DFS part number and upgrade the DFS SW version.

D. Relevant Publications

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

E. Compliance

Eclipse Aviation Corporation considers this to be a recommended upgrade that *can* be accomplished at the operator's discretion.

F. Approval

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

G. Weight and Balance Change

None.

H. Electrical Load Data Change

None.

I. Software Accomplishment Summary

The Digital Flap System software will be upgraded to EAC-DFS-EOC-01-4.36.

J. References

EAC-DFS-SCI-01, EAC Software Configuration Index, DFS

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

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2. Material Information

A. Materials

The following item is required for this Service Bulletin.

Part Number	Description	Qty Required
EAC-DFS-SCI-01 Rev. R	EAC Software Configuration Index, DFS	one

B. Tooling

Nomenclature	Part Number	Use
V&V Flap Test Simple Harness	87-120460-1001	Actuator/Computer Connection
SeaPort +4/485	2402 or 2202	Actuator/Computer Connection

C. Interchangeability/Intermixability of Parts

All four DFS Actuators shall be P/N EM4116-5 or EM4116-6 (can be mixed).

All four DFS Actuators shall be upgraded at the same time and will carry the same SW load: P/N EAC-DFS-EOC-01-4.36.

The Aircraft Computer System (ACS) SW shall be P/N EAC-ACS-EOC-01-4.4.38 (or later).

D. Part Re-identification

NONE Required

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3. Accomplishment Instructions

A. Procedure

- (1) Use SUBTASK AMM-27-51-11-001-921-001 for Job Set-Up
- (2) Inspect all four flap actuators for correct part number EM4116-5 (or -6) and annotate serial numbers on the Service Bulletin Compliance Record (page 5). Any actuators that are not the correct part number **MUST IMMEDIATELY** be replaced with correct part number.
- (3) Using EAC-DFS-SCI-01 upgrade the DFS Software.
- (4) Use SUBTASK AMM-27-51-11-041-921-002 for Job Close-Up.

B. Limitations

All four DFS Actuators shall be P/N EM4116-5 or EM4116-6 (-5 and -6 can be mixed).

All four DFS Actuators shall be upgraded at the same time and will carry the same SW load: P/N EAC-DFS-EOC-01-4.36.

The Aircraft Computer System (ACS) SW shall be P/N EAC-ACS-EOC-01-4.4.38 (or later).

C. Cost

Parts, Software and Labor will be supplied by Eclipse Aviation Corporation at no charge to the aircraft owner.

Labor will be performed by Eclipse Aviation Corporation personnel.



RECOMMENDED

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4. Record of Compliance

Upon completion of this Service Bulletin, make an appropriate maintenance-record entry specifying the Service Bulletin number, the Serial Number of each Actuator and the new DFS SW version with the ACS SW version.

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

