

NUMBER: SB 500-31-026, Rev B
MODEL: ECLIPSE EA500
SUBJECT: Software Configuration Update

Mandatory

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1. PLANNING INFORMATION

A. Effectivity

All Avidyne configured aircraft and all Avio NG 1.0 configured aircraft. (0001-0265 pre SB 500-99-005).

NOTE: The Eclipse / IS&S EFIS 1.7 and IFMS upgrades are not affected by this Bulletin since they are build upon, and are later than, AvioNG 1.5.

B. Reason

The potential exists that a hardware failure could lead to dual engine shutdown in pre AvioNG 1.5 configurations.

Revision B changes added SB 500-31-019 - Aircraft Computer System (ACS) Software Update to 5.1.06 to Relevant Publications, Compliance, Software Accomplishment Summary and Accomplishment Instructions. Added Export Control Statement.

C. Description

This Service Bulletin identifies configurations and provides a course of action to prevent a potential hardware failure that may lead to dual engine shutdown in pre AvioNG 1.5 configurations.

D. Relevant Publications

SB 500-31-023 - Center Switch Panel (CSP) Inspection Replacement
SB 500-31-014 - Aircraft Computer System (ACS) Software Update to 4.6.04
SB 500-31-019 - Aircraft Computer System (ACS) Software Update to 5.1.06
SB 500-99-005 - Avionics Upgrade To Avio NG + 1.5 Configuration
AFM 06-122204 TR 016 - FWSOV disabling

E. Compliance

Eclipse Aerospace Inc. considers this to be a mandatory inspection that must be accomplished within 30 days from the issue date of this Service Bulletin.

Avidyne Configured Aircraft: Complete Section 3A, Actions for Avidyne Configured Aircraft:

Avio NG 1.0/1.3 Configured Aircraft: Complete Section 3B, Actions for Avio NG 1.0/1.3 Configured Aircraft:

Avio NG 1.0/1.3 Configured Aircraft: Compliance with SB 500-99-005 - Avionics Upgrade To Avio NG + 1.5 Configuration or accomplishment of SB 500-31-019 - Aircraft Computer System (ACS) Software Update to 5.1.06 will remove AFM TR 016 and the requirement for the 30 day DSU download and analysis.

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

Install AFM TR 016 "FWSOV disabling" in AFM 06-122204: 0.5 Hours

DSU Download & Analysis: 1.5 Hours

Total labor hours: 2.0

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 to perform aircraft maintenance under 14 CFR 43 or equivalent approved by the Civil Aviation Authority having jurisdiction.

H. Weight and Balance Change

None

I. Electrical Load Data Change

None

J. Software Accomplishment Summary

Refer to SB 500-31-014 - Aircraft Computer System (ACS) Software Update to 4.6.04.

Refer to SB 500-31-019 - Aircraft Computer System (ACS) Software Update to 5.1.06

K. References

None

L. Publications Affected

AFM TR 016 - FWSOV disabling

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

Aircraft Flight Manual Temporary Revision 016 - FWSOV disabling, P/N 06-122204-TR016 (For Avio NG 1.0/1.3 Configured Aircraft)

B. Interchangeability/Intermixability of Parts

N/A

C. Part Re-identification

N/A

3. ACCOMPLISHMENT INSTRUCTIONS

A. Actions for Avidyne Configured Aircraft:

- (1) Complete SB 500-31-014 - Aircraft Computer System (ACS) Software Update to 4.6.04 within 30 days. No other actions are required.

B. Actions for Avio NG 1.0/1.3 Configured Aircraft

- (1) Initial Actions:
 - (a) Install AFM TR 016 - FWSOV disabling in AFM 06-122204 within 30 days.
 - (b) Complete SB 500-31-023 Center Switch Panel (CSP) Inspection Replacement within 90 days.

- (c) Perform DSU download and provide data to Eclipse Aerospace Service Engineering for analysis of data for ACP or CSP faults. Refer to AMM - 31-30-00 - AIRCRAFT RECORDERS - ADJUSTMENT/TEST.
- (2) Recurring Actions:
 - (a) Perform DSU download and provide data to Eclipse Aerospace Service Engineering for analysis of data every 30 days for ACP or CSP faults. Refer to AMM - 31-30-00 - AIRCRAFT RECORDERS - ADJUSTMENT/TEST.
- (3) Actions to remove AFM TR 016 and the repetitive 30 day check:
 - (a) Compliance with SB 500-99-005 - Avionics Upgrade To Avio NG + 1.5 Configuration or accomplishment of SB 500-31-019 - Aircraft Computer System (ACS) Software Update to 5.1.06 will remove AFM TR 016 and the requirement for the 30 day DSU download and analysis.

C. Limitations and Procedures

None for Avidyne configured aircraft (06-100106, 06-121654 AFMs)

Avio NG 1.0/1.3 Configured Aircraft: Install AFM TR 016 - FWSOV disabling in AFM 06-122204 within 30 days.

D. 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.

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