

SERVICE BULLETIN

NUMBER: SB 500-73-002
MODEL: Eclipse EA500
SUBJECT: Left Engine - Fuel Control Harness Modification

1. Planning Information

A. Effectivity

Aircraft Model EA500 Serial Numbers 000001 through 000003, and 000006 through 000012.

B. Reason

Correction of a wiring discrepancy on the wiring harness for the fuel control on the left engine on the above referenced serial numbers.

C. Description

This wiring error could, under certain circumstances, negate the redundancy normally provided by the Channel B of the Left Engine FADEC.

This Service Bulletin (SB), along with some changes to the Propulsion Functional Test and the Functional Test Specification – PW610, corrects that wiring error and restores the full redundancy as originally intended.

D. Relevant Publications

Propulsion Functional Test, P/N E440-TP-0017 (Rev R or later)

Functional Test Specification – PW610, P/N EAC-FTS-0008

Aircraft Maintenance Manual, PN 06-117751, latest Rev.

Wiring Diagram Manual, TR-28-1, TR-34-2, TR-73-1

E. Compliance

Eclipse Aviation Corporation considers this to be a mandatory inspection that must be accomplished within the next 60 calendar days from the issue date of this Service Bulletin.

F. Approval

This Service Bulletin is based on engineering data that is FAA-approved (Type Design Data), and returns the aircraft to its original intended Type Design configuration.

G. Weight and Balance Change

None.

H. Electrical Load Data Change

None.

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I. Publications Affected

Propulsion Functional Test, P/N E440-TP-0017 (Rev R or later)

Functional Test Specification – PW610, P/N EAC-FTS-0008

Wiring Diagram Manual, P/N 06-117753

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2. Accomplishment Instructions

A. Procedure

- (1) Perform steps 5.11 through 5.11.12 of E440-TP-0017, Rev. R or later, and write down results.
Note: If left engine is operating, ensure engine is at ground idle for one (1) minute minimum before continuing to next step.
- (2) If applicable, turn the switch on the LEFT engine control panel to OFF and allow engine to spool down. If the left engine was successfully started as indicated in step 5.11.9 (Channel A) and step 5.11.12 (Channel B), no further maintenance is required. Otherwise, continue to the next step of this service bulletin.
- (3) Make aircraft safe for maintenance. Refer to AMM-20-00-01-921-001.
- (4) Gain access to Harness 76-113689 by removing panel 311 GL, Left Aft Upper Pylon Skin. Refer to AMM - 06-50-00 -0510-A-871-002 for location.
- (5) Disconnect electrical connector 72A01J03.
- (6) Disassemble connector 72A01J03 by removing back shell.
- (7) Using appropriate pin extractor, remove pins R and V from connector 72A01J03.
- (8) Using appropriate pin insertion tool, relocate pin from wire number ENG-L0742-22 BL to slot R in connector 72A01J03.
- (9) Using appropriate pin insertion tool, relocate pin from wire number ENG-L0742-22 WH to slot V in connector 72A01J03.
- (10) Reassemble back shell on connector 72A01J03.
- (11) Reconnect connector 72A01J03 to 72A01P03.
- (12) Perform steps 5.11 through 5.11.12 of E440-TP-0017, Rev. R or later, and write down results.
Note: If left engine is operating, ensure engine is at ground idle for one minute minimum before continuing to next step.
- (13) Turn the switch on the LEFT engine control panel to OFF and allow engine to spool down.
- (14) Reinstall panel 311 GL, Left Aft Upper Pylon Skin. Refer to AMM - 06-50-00 -0510-A-871-002 for location.
- (15) Remove all tools, equipment and unwanted material from work area.
- (16) If all other maintenance is complete, return aircraft to service. Refer to AMM-20-00-02-921-001.

B. Limitations and Procedures

It is recommended that this SB be accomplished at and by one of the Eclipse Aviation Service Centers.

C. Cost

Parts (if required) and Labor will be supplied at no charge to the aircraft owner by Eclipse Aviation Corporation.



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3. Record of Compliance

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

4. 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.

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