

SERVICE BULLETIN

NUMBER: SB 500-55-001 Rev. B
MODEL: Eclipse EA500
SUBJECT: Horizontal Stabilizer Inspection

1. Planning Information

A. Effectivity

Aircraft Model EA500, Serial Numbers 000001 through 000011, and 000014.

B. Reason

An inspection has revealed some rib damage at random locations within the horizontal stabilizer.

C. Description

This Service Bulletin (SB) mandates a detailed inspection of each rib, the two spars, and upper and lower skins of the horizontal stabilizer for possible damage caused during the manufacturing process.

D. Relevant Publications

Aircraft Maintenance Manual (AMM) PN 06-117751, latest revision.

E. Compliance

Eclipse Aviation Corporation considers this to be immediate in nature and must be complied with no later than June 10, 2007.

F. Approval

This Service Bulletin inspection is required to verify that the aircraft complies with the original type design configuration.

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G. Labor Requirements

The following information is for planning purposes only.

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

- Task name: Left side horizontal stabilizer: 2 hours
- Task name: Right side horizontal stabilizer: 2 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.

(2) **Suggested number of personnel:** Two persons, one minimum with Inspector qualifications.

(3) **Qualification of personnel:**

- Experienced in the use of a bore scope.
- A&P Mechanic qualifications, Inspection Authorization (IA) desired

H. Weight and Balance Change

NONE

I. Electrical Load Data Change

NONE

J. Software Accomplishment Summary

Not Applicable.

2. Material Information

Tooling

The following special tooling/support equipment is required to accomplish this Service Bulletin.

Nomenclature	Part Number	Use
Everest VIT Borescope XL Pro Plus or equivalent performance	PLS500D-C .150" Diameter.	Visual Inspection

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3. Accomplishment Instructions

A. Procedure

- (1) Make aircraft safe for maintenance using AMM-20-00-01-051-801.
- (2) Remove power from the aircraft, or open ECB-Deice Manifold HTR (R Aft Bus).
- (3) Starting with the Left Hand Side of the Horizontal Stabilizer, using bore scope P/N PLS500D-C (or equivalent), install probe between forward edge of Left Elevator and aft edge of Left Horizontal Stabilizer moving the probe forward through the aft spar lightening hole closest to the Horizontal Stabilizer Center Line.
- (4) Inspect the whole "Bay" area. Bay #1 is composed of: Left side of Rib #1, right side of Rib #2, aft side of Forward Spar between Rib #1 and 2, forward side of the Aft Spar between Rib #1 and 2, upper and lower skins between Rib #1 and 2. Inspection should focus on finding drill bit markings where the drill bits used to drill fastener holes attaching the skin to the internal structure may have accidentally scored a rib, a spar, or a skin.

Note: For bore scope of the aft section of the Horizontal Stabilizer: make sure bore scope optic is at 90 degrees pointing toward aft rib attachment points to aft spar.

- (5) Repeat Step (4) for each Bay, moving the probe from one Aft Spar lightening hole to the next outboard bay.
- (6) Inspect area around each lightening hole, top to bottom, for evidence of drill damage.
- (7) Repeat Steps (3) through (6) with the Right Hand Side of the Horizontal Stabilizer.

NOTE:

If any damage is found, notify Eclipse Aviation Engineering Department immediately and submit a detailed location (Rib number, first rib is at the root) and description of any damage found (size: length, width and depth if possible). Submit pictures of damage.

If damage is found, the aircraft is not allowed any flight operation until receipt of and compliance with the disposition of the damage as specified by Eclipse Aviation Engineering.

If no damage is found, record compliance with this SB in the aircraft log book and report the findings to EAC Engineering using the Compliance Record page at the end of this SB..

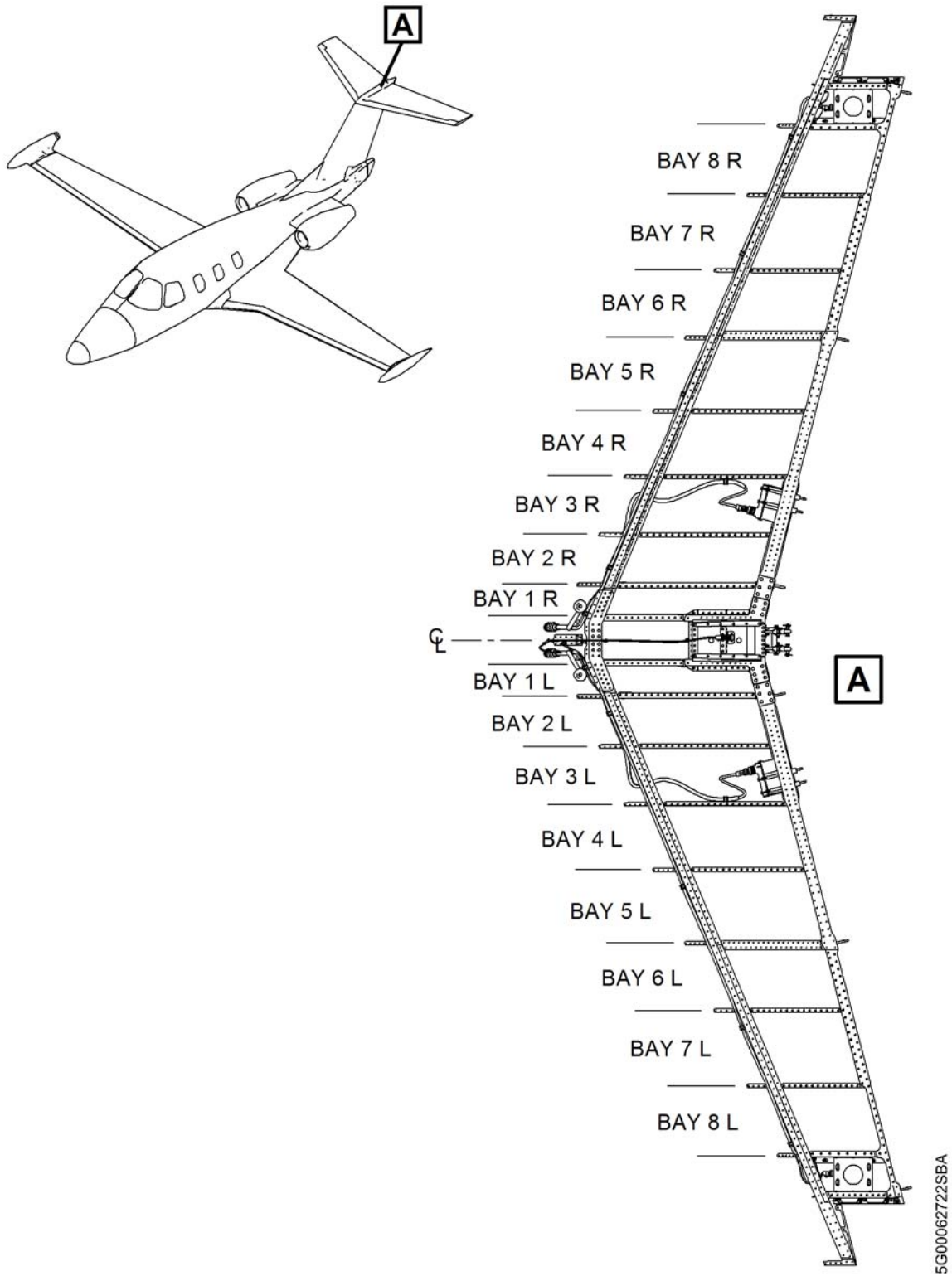
- (8) If no damage is found, clean all tools and equipment from area and return aircraft to service. Refer to AMM-20-00-02-051-801.



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4. Cost

This Service Bulletin will be accomplished by Eclipse Aviation personnel.

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

5. Record of Compliance

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

6. 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

SERVICE BULLETIN COMPLIANCE RECORD

SB 500-55-001, Rev B: Horizontal Stabilizer Inspection

MODEL _____ AIRPLANE S/N _____ REG. NO. _____ TOTAL TIME _____ (Hours)

OWNER NAME: _____

ADDRESS: _____

TELEPHONE NO. () _____ FAX NO. () _____

COMPLIANCE WITH SB 500-55-001, REV B

Description of Work Performed

(Inspection | Modification | Repair | Option Installation | Defect or Damage Found, if applicable)

DATE _____

WORK PERFORMED BY _____ (Printed)

_____ (Signature)

COMPANY _____

ADDRESS _____

TELEPHONE _____ FAX _____