



MANDATORY

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AEROSPACE

SERVICE BULLETIN

NUMBER: SB 500-27-008, REV B
MODEL: ECLIPSE EA500
SUBJECT: FLIGHT CONTROL FUNCTIONAL CHECK VERIFICATION

1. PLANNING INFORMATION

A. Effectivity

Aircraft Serial Numbers 0001 - 0261 that have had the 1200 Hour/48 Month Inspection (reference AMM-05-20-00-081-801 Scheduled Maintenance Checks) complied with at a facility other than those listed in Section E of this bulletin.

Aircraft that had the 1200 Hour/48 Month Inspection (reference AMM-05-20-00-081-801 Scheduled Maintenance Checks) complied with at one of the facilities listed in Section E of the bulletin are not effected.

B. Reason

Eclipse Aerospace policy requires that major inspections and modifications be completed at an EAI Authorized Service Center. These facilities have the tooling, training, and expertise to maintain the Eclipse 500 at the highest possible standards.

The 1200 Hour/48 month inspection requires the use of flight control rigging equipment that is especially designed to assure the proper adjustment and travel of the flight controls. These tools meet the requirement of 14 CFR 43.13 & 14 CFR 145.109.

EAI has issued this Service Bulletin to raise customer awareness that service providers may be performing Aircraft Maintenance Manual (AMM) 1200 Hour/48 Month Inspections without the tooling specified by the AMM (or FAA approved equivalent tooling). Correct flight control position, travel, and rigging is imperative for the safe operation of any aircraft.

This bulletin provides a remedial solution for those operators that may have unknowingly had an inspection performed that did not include the use of the proper equipment when performing flight control adjustment/verification. This bulletin **DOES NOT** allow the substitution of this Service Bulletin in lieu of properly performing the 1200 Hour/48 month inspection utilizing the proper tooling.

EAI will only support this Service Bulletin for the remediation of aircraft that previously had the 1200 Hour/48 Month Inspection completed prior to May 29, 2012 by parties not listed in Section E of this bulletin. EAI will not support non-compliant inspections performed after May 29, 2012.

Revision B changes: Revised Effectivity, Reason and Labor Requirements sections. Added AirPlus, Friedrichshafen, Germany to Eclipse Authorized Service providers.

C. Description

The use of correct tooling (including flight control travel boards and flap position boards) specified by the AMM (reference AMM-27-00-00-071-A/B-801 Flight Controls – Adjustment/Test (Functional Check) ensures that flight controls are rigged in accordance with the established limits. A limited number of the specified flight control travel and position tools were produced and are available at Eclipse authorized service providers.

Flight control travel and flight control position tools are specified within the AMM tasks to perform a functional check of the flight control system. These tools are required for the correct Adjustment/Test of the Aileron, Rudder, and Wing flap flight controls.



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D. Relevant Publications

None

E. Compliance

Eclipse Aerospace Inc. considers this to be an mandatory inspection that must be accomplished before the next flight.

Before further flight, conduct the Functional Checks specified within AMM task 27-00-00-071-A/B-801 with the specified tools (flight control travel boards and flight control position boards).

NOTE: Control travel and position boards other than those specified within the AMM may be used if they have been inspected and verified by Eclipse Aerospace to be equivalent.

Aircraft having 1,200 flight hour / 48 month performed by Eclipse Service Centers or Eclipse Authorized Service providers (list provided below) have previously been verified by Eclipse and are considered compliant with this Service Bulletin.

Eclipse Service Center	Albuquerque, NM
Eclipse Service Center	Wheeling, IL
EA Havacilik A.S.	Istanbul, Turkey
Boca Aircraft Maintenance	Boca Raton, FL Service Center
VNE Jet	Henderson, NV
AirPlus	Friedrichshafen, Germany

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: 2

Job Set-up and Job Close-up: 2.0 Hours

Flight Control Functional Check: 6 Hours

Total labor hours: 16

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 under 14 CFR 43 to perform aircraft maintenance.

H. Weight and Balance Change

None



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I. Electrical Load Data Change

None

J. Software Accomplishment Summary

None

K. References

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

L. Publications Affected

None

2. MATERIAL INFORMATION

A. Materials

No parts are required for this Service Bulletin.

B. Consumables

No consumables are required for this Service Bulletin.

C. Tooling

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

Nomenclature	Specification
Inclinometer/Protractor	Macklanburg Duncan PRO-360
Retracted Position Board, Flaps, INBD, Left and Right	EAI, 27T109846-RT-001
Retracted Position Board, Flaps, OUTBD, Left and Right	EAI, 27T109846-RT-002
Rig Pin with Streamer	0.25 in. diameter.
Travel Board, Rudder and Rudder Trim Temp	EAI, 27T109846-RT-005
Travel Board, Aileron, Left and Right	EAI, 27T109846-RT-003
Stop Watch	

D. Interchangeability/Intermixability of Parts

None

E. Part Re-identification

None.



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3. ACCOMPLISHMENT INSTRUCTIONS

A. Procedure

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| <ul style="list-style-type: none"> (1) Job Set-up, <li style="padding-left: 20px;">(a) Make the aircraft safe for maintenance. Refer to AMM - 20-00-01 - MAKE SAFE FOR MAINTENANCE. (2) Adjustment/Test <li style="padding-left: 20px;">(a) Perform Flight Control Functional Check. Refer to AMM - 27-00-00-A - FLIGHT CONTROLS - ADJUSTMENT/TEST (FUNCTIONAL CHECK) or AMM - 27-00-00-B - FLIGHT CONTROLS - ADJUSTMENT/TEST (FUNCTIONAL CHECK) (3) Job Close-up <li style="padding-left: 20px;">(a) If all other maintenance is complete, return the aircraft to service. Refer to the AMM - 20-00-02 - RETURN TO SERVICE (AFTER MAINTENANCE). | <p><u>SIGN OFF</u></p> <p>_____</p> <p>_____</p> <p>_____</p> |
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B. Limitations and Procedures

None

C. 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.

Mailing Address	Eclipse Aerospace Incorporated ATTN: Service Engineering 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
E-mail	sbcompliance@eclipse.aero

