
SERVICE INFORMATION LETTER NO. SI40NG-068

NOTE: Service Information Letters are used only:

1. To distribute information from Diamond Aircraft Industries Inc. to our customers.
2. To distribute applicable information/documents from our suppliers to our customers with additional information.

NOTE: Typically there is no revision service for Service Information Letter (SIL). Each new information or change will be sent along with a new SIL.

1. TECHNICAL DETAILS

1.1 Aircraft Affected

All DA 40 NG aircraft

1.2 Subject

EASA Airworthiness Directive No. 2019-0041

ATA-Code: 05-00

1.3 Reason

Austro Engine has recently revised the Airworthiness Limitations Section, introducing life limit for the engine timing chain and for the fuel injectors. Subsequently, EASA has issued Airworthiness Directive No. 2019-0041 mandating these changes in the Airworthiness Limitations and Maintenance Tasks for the Austro Engine E4 and E4P.

1.4 Information

For detailed technical information refer to EASA Airworthiness Directive No. 2019-0041 and Austro Engine Mandatory Service Bulletin No. MSB-E4-025 latest revision, which is applicable without any further additions or restrictions.

EASA Airworthiness Directive No. 2019-0041 is attached to this Service Information.

2. OTHER DETAILS

To obtain satisfactory results, procedures specified in this service information letter must be accomplished in accordance with accepted methods and current government regulations. Diamond Aircraft Industries Inc. cannot be responsible for the quality of work performed in accomplishing the requirements of this service information letter. Diamond Aircraft reserves the right to void continued warranty coverage in the area affected by this service information letter if it is not incorporated. If you no longer own the aircraft to which this service information letter applies, please forward it to the current owner and send the name of the current owner to Diamond Aircraft Industries Inc. at the address below.

Diamond Aircraft Industries Inc.
1560 Crumlin Sideroad, London, Ontario, Canada
N5V 1S2

Customer Support: Phn: (519)457-4041 Fax:(519)457-4045 Email: customersupport@diamondair.com
Technical Publications: Email: techpubs@diamondair.com



Airworthiness Directive

AD No.: 2019-0041

Issued: 25 February 2019

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AUSTRO ENGINE GmbH

Type/Model designation(s):

E4 series engines

Effective Date: 11 March 2019

TCDS Number(s): EASA.E.200

Foreign AD: Not applicable

Supersedure: None

ATA 05 – Time Limits / Maintenance Checks – Airworthiness Limitations Section – Amendment

Manufacturer(s):

Austro Engine GmbH

Applicability:

Model E4 and E4P engines, all serial numbers.

These engines are known to be installed on, but not limited to, Diamond Aircraft Industries DA 40 NG, DA 42 NG, DA 42 M-NG and DA 62 aeroplanes.

Definitions:

For the purpose of this AD, the following definitions apply:

The ALS: Austro Engine Temporary Revision (TR) MM-TR-MDC-E4-454 dated 03 October 2018, revising Chapter 04 of E4 Maintenance Manual (MM) reference (ref.) Doc. No. E4.08.04 Revision 27, and Mandatory Service Bulletin (MSB) MSB-E4-025/3.

The AMP: The approved Aircraft Maintenance Programme (AMP) on the basis of which the operator or the owner ensures the continuing airworthiness of each operated aircraft. For aircraft registered in Europe, compliance with the approved AMP is required by Commission Regulation (EU) [1321/2014](#), Part M.A.301, paragraph 3.



Reason:

The airworthiness limitations and maintenance tasks for the Austro Engine E4 and E4P engines, which are approved by EASA, are currently defined and published in the Austro Engine MM, Chapter 04. These instructions have been identified as mandatory for continued airworthiness.

Failure to accomplish these instructions could result in an unsafe condition.

Austro Engine recently revised the ALS, introducing life limit for the engine timing chain and for the fuel injectors.

For the reason described above, this AD requires accomplishment of the actions specified in the ALS.

Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

Maintenance Tasks and Replacement of Life Limited Parts:

- (1) From the effective date of this AD, replace each component before exceeding the applicable life limit, as specified in the ALS, as applicable to engine model and configuration.

Note 1: For the purpose of this AD, the thresholds and intervals as defined in the ALS include specific compliance times for certain tasks.

AMP Revision:

- (2) Within 12 months after the effective date of this AD, revise the approved AMP by incorporating the limitations described in the ALS, as applicable to engine model and configuration.

Recording AD compliance:

- (3) When the AMP of an aircraft has been revised as required by paragraph (2) of this AD, that action ensures continued accomplishment of the tasks as required by paragraph (1) of this AD for that engine. Consequently, after revising the AMP, as required by paragraph (2) of this AD, it is not necessary that accomplishment of individual actions are recorded for demonstration of AD compliance on a continued basis.

Ref. Publications:

Austro Engine TR MM-TR-MDC-E4-454 dated 03 October 2018, revising E4 MM ref. Doc. No. E4.08.04 Revision 27, or later revision of E4 MM including the content of this TR.

Austro Engine MSB-E4-025/3 dated 08 January 2019.

The use of later approved revisions of above-mentioned documents is acceptable for compliance with the requirements of this AD.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.



2. This AD was posted on 21 January 2019 as PAD 19-009 for consultation until 18 February 2019. The Comment Response Documents can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the [EU aviation safety reporting system](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: Austro Engine GmbH, Rudolf-Diesel-Str. 11, 2700 Wiener Neustadt, Austria, Telephone +43-2622-23000-2525, E-mail service@austroengine.at.

