



Airworthiness Directive

AD No.: 2018-0214

Issued: 04 October 2018

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:

DIAMOND AIRCRAFT INDUSTRIES GmbH

Type/Model designation(s):

DA 42 NG and DA 42 M-NG aeroplanes

Effective Date: 18 October 2018

TCDS Number(s): EASA.A.005 and EASA.A.513

Foreign AD: Not applicable

Supersedure: None

ATA 27 – Flight Controls – Rudder Pedal Gust Lock Mounts – Removal

Manufacturer(s):

Diamond Aircraft Industries GmbH (Austria), Diamond Aircraft Industries Inc. (Canada)

Applicability:

DA 42 NG and DA 42 M-NG aeroplanes (including those certified in the Restricted category), manufacturer serial numbers 42.N202, 42.N203, 42.N205 to 42.N207 inclusive, 42.N210 to 42.N214 inclusive, 42.N229 to 42.N338 inclusive, 42.N340, 42.MN055, 42.MN057 and 42.MN058.

Definitions:

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

The MSB: Diamond Aircraft Industries (DAI) Mandatory Service Bulletin (MSB) 42NG-077.

Reason:

During production check-out of two DA 42 NG aeroplanes, it was noticed that, with the adjustable rudder pedals in full forward position, the gust lock mounts slightly touched the canopy gas spring damper. The subsequent investigation found that this was due to an unfavourable combination of production tolerances on these two aeroplanes. DAI determined that other aeroplanes of the same build standard (configuration) may also be affected.

This condition, if not corrected, could lead to restricted rudder travel, possibly resulting in reduced control of the aeroplane.



Prompted by these findings, DAI published the MSB, providing modification instructions to remove the gust lock mounts on the pilot (left-hand, LH) side rudder pedals to ensure sufficient clearance, regardless of production tolerances and rudder pedal position.

For the reason described above, this AD requires implementation of a temporary revision (TR) to the applicable Airplane Flight Manual (AFM) and a modification, removing the pilot (LH) side rudder pedal gust lock mounts.

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

Required as indicated, unless accomplished previously:

Modification:

- (1) Within 100 flight hours after the effective date of this AD, remove the pilot (LH) side rudder pedal gust lock mounts in accordance with the instructions of the MSB.

AFM Change:

- (2) Concurrent with modification of an aeroplane as required by paragraph (1) of this AD, amend the applicable AFM of that aeroplane in accordance with the instructions of Diamond TR-MÄM 42-1097, inform all flight crew and, thereafter, operate the aeroplane accordingly.

Inserting a copy of TR-MÄM-42-1097 into the applicable AFM, or updating the applicable AFM with a later revision that includes the information from TR-MÄM 42-1097, is an acceptable method to comply with the required AFM change.

Parts Installation:

- (3) After modification of an aeroplane as required by paragraph (1) of this AD, do not install any pilot (LH) side rudder pedal gust lock mounts on that aeroplane.

Ref. Publications:

DAI MSB 42NG-077 original issue dated 20 August 2018.

DAI TR-MÄM 42-1097 original issue dated 18 July 2018.

The use of later approved revisions of the 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 27 August 2018 as PAD 18-120 for consultation until 24 September 2018. No comments were received during the consultation period.
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: Diamond Aircraft Industries GmbH, Nikolaus-August-Otto-Straße 5, 2700 Wiener Neustadt, Austria, Telephone +43 2622 26700, Fax +43 2622 26780, E-mail: airworthiness@diamond-air.at.

