

Airworthiness Directive

AD No.: 2019-0057

Issued: 20 March 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:

LEONARDO S.p.A.

Type/Model designation(s):

A119 and AW119MKII helicopters

Effective Date: 03 April 2019

TCDS Number(s): EASA.R.005

Foreign AD: Not applicable

Supersedure: None

ATA 67 – Rotors Flight Control – Collective Stick Torque Tube Assembly – Inspection / Replacement

Manufacturer(s):

Leonardo S.p.A. Helicopters, formerly Finmeccanica S.p.A., AgustaWestland S.p.A., Agusta S.p.A.; and AgustaWestland Philadelphia Corporation, formerly Agusta Aerospace Corporation

Applicability:

A119 and AW119MKII helicopters, all serial numbers.

Definitions:

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

The ASB: Leonardo Alert Service Bulletin (ASB) 119-098.

Affected part: Collective stick torque tube assemblies, having part number (P/N) 109-0011-03-105, and identified by batch number 823207 or earlier.

Serviceable part: Collective stick torque tube assemblies which are not an affected part.

Groups: Group 1 helicopters are those that have an affected part installed. Group 2 helicopter are those that do not have an affected part installed.

Reason:

Occurrences have been reported of abnormal play on the collective torque tube of two AW119MKII helicopters. Following investigations, it was identified that these events were due to an erroneous manufacturing process, affecting the collective torque tub assemblies. The affected batch numbers have been identified.

This condition, if not detected and corrected, could lead to a reduction of the controllability of the helicopter, possibly resulting in damage to the helicopter and injury to occupants.

To address this potential unsafe condition, Leonardo issued the ASB, providing applicable instructions.

For the reason described above, this AD requires identification of the batch number of all P/N 109-0011-03-105 torque tube assemblies, repetitive inspections of the affected parts and replacement. This AD also prohibits (re)installation of affected parts.

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

Required as indicated, unless accomplished previously:

Inspections:

- (1) Within 50 flight hours (FH) after the effective date of this AD, visually inspect each torque tube assembly having P/N 109-0011-03-105 to determine the batch number, in accordance with the instructions of the ASB.
- (2) For Group 1 helicopters: Before next flight after the inspection as required by paragraph (1) of this AD and, thereafter, at intervals not exceeding 200 FH, inspect the affected part in accordance with the instructions of the ASB.
- (3) For Group 1 helicopters: If, during the inspection as required by paragraph (1) of this AD, an affected part is found, having batch number 808477, 815508 or 815712, before next flight, contact Leonardo for additional instructions and, within the compliance time specified in those instructions, accomplish those instructions accordingly.

Corrective Actions:

- (4) For Group 1 helicopters: If, during any inspection as required by paragraph (2) of this AD, any deficiency, as identified in the ASB, is detected on the affected part, before next flight, replace that affected part with a serviceable part in accordance with the instructions of the ASB.

Replacement:

- (5) For Group 1 helicopters: Unless already done as required by paragraph (4) of this AD, within 24 months after the effective date of this AD, replace the affected part with a serviceable part in accordance with the instructions of the ASB.

Terminating Action:

- (6) Replacement of an affected part with a serviceable part on a helicopter, as required by paragraph (4) or (5) of this AD, as applicable, or in accordance with the additional Leonardo



instructions, as required by paragraph (3) of this AD, constitutes terminating action for the repetitive inspections as required by paragraph (2) of this AD for that helicopter.

Part Installation:

(7) Do not install an affected part on any helicopter, as required by paragraph (7.1) or (7.2) of this AD, as applicable:

(7.1) For Group 1 helicopters: After replacement of the affected part as required by paragraph (3), (4) or (5) of this AD, as applicable.

(7.2) For Group 2 helicopters: From the effective date of this AD.

Ref. Publications:

Leonardo S.p.A. Helicopters ASB 119-098 original issue dated 13 March 2019.

The use of later approved revisions of the above-mentioned document 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. Based on the required actions and the compliance time, EASA have decided to issue a Final AD with Request for Comments, postponing the public consultation process until after publication.
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: Leonardo S.p.A. Helicopters, Customer Support & Services, Product Support Engineering DPT, E-mail: aw109.mbx.aw@leonardocompany.com.

