



Airworthiness Directive

AD No.: 2022-0148

Issued: 14 July 2022

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 or Annex Vb Part ML.A.301, as applicable, 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 Annex Vb Part ML.A.303, as applicable] 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: 28 July 2022

TCDS Number(s): EASA.R.005

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Starter-Generator Drive Shaft – Inspection

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 S.p.A. Helicopters (Leonardo) Alert Service Bulletin (ASB) 119-121.

Affected part: Starter-generators, having Part Number (P/N) 200SGL129Q1 or P/N 200SGL129Q-2.

Serviceable part: An affected part that is new (not previously installed); or an affected part that has not been installed since overhaul; or an affected part that has passed an inspection (no discrepancies detected) in accordance with the instructions of the ASB; or an affected part that, since new, since overhaul or since last drive shaft replacement, as applicable, has always been removed or (re)installed in accordance with the instructions of the ASB; or an affected part that has never been removed since first flight of the helicopter on which it is installed.



Reason:

An occurrence was reported of an electrical failure of the starter-generator, caused by the rupture of the drive shaft. This failure was not detected by the generator control unit, causing a partial loss of battery power.

This condition, if not detected and corrected, could lead to a complete loss of electrical power, possibly resulting in loss of control of the helicopter.

To address this potential unsafe condition, Leonardo issued the ASB, providing inspection instructions, as well as improved instructions for removal and installation of the starter-generator.

For the reason described above, this AD requires a one-time inspection of the drive shaft of the affected part and, depending on findings, replacement of the affected part with a serviceable part. This AD also requires reporting the inspection results and implementation of improved removal and (re)installation procedures of affected parts.

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

Required as indicated, unless accomplished previously:

Inspection(s):

- (1) Within 50 flight hours or 3 months, whichever occurs first after the effective date of this AD, inspect the drive shaft of the affected part in accordance with the instructions of Part I of the ASB. Affected parts that are defined as 'serviceable part' in this AD do not need to be inspected as required by this paragraph.

Corrective Action(s):

- (2) If, during the inspection as required by paragraph (1) of this AD, any cracked drive shaft is found, before next flight, remove the affected part from service and install a serviceable part, as defined in this AD, in accordance with the instructions of Part II of the ASB.

Reporting:

- (3) Within 30 days after the inspection as required by paragraph (1) of this AD, report the results (including no findings) to Leonardo. The 'Service Bulletin Compliance Form' (page 22 of the ASB) can be used for the reporting purpose.

Parts Installation:

- (4) From the effective date of this AD, it is allowed to install on any helicopter an affected part, provided it is a serviceable part, as defined in this AD, and that the removal and installation is accomplished in accordance with the instructions of Part II of the ASB.

Ref. Publications:

Leonardo ASB 119-121 original issue dated 21 June 2022.

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. This AD was posted on 24 June 2022 as PAD 22-082 for consultation until 08 July 2022. 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](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.
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, E-mail: absereng.aw@leonardocompany.com.

