



Airworthiness Directive

AD No.: 2023-0210

Issued: 27 November 2023

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: 11 December 2023

TCDS Number(s): EASA.R.005

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Battery – Modification

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 (s/n).

Definitions:

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

The ASB: Leonardo Alert Service Bulletin (ASB) 119-130.

Groups: Group 1 are helicopters having an s/n up to 14900 inclusive.
Group 2 are helicopters having s/n 14901 or higher.

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, resulting in a partial loss of battery power.

This condition, if not detected, 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 designed the battery discharge detection system, which allows detection of any battery discharge condition and alerts the crew, and issued the ASB, as defined in this AD, to provide instructions for retrofit installation. The emergency procedure section of the Rotorcraft Flight Manual (RFM) has been updated accordingly.

For the reason described above, this AD requires installation of a battery discharge detector and amendment of the RFM.

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

Required as indicated, unless accomplished previously:

Modification:

- (1) For Group 1 helicopters: Within 12 months after the effective date of this AD, install a battery discharge detector in accordance with the instructions of Part I, Part II or Part III, as applicable, of Section 3 of the ASB.

RFM Amendment:

- (2) Within the compliance time as identified in paragraph (2.1) or (2.2) of this AD, as applicable, amend the RFM by incorporating the RFM revision, as identified in Table 1 of this AD, as applicable, inform all flight crew, and thereafter, operate the helicopter accordingly.

(2.1) For Group 1 helicopters: Before next flight after the modification of the helicopter as required by paragraph (1) of this AD.

(2.2) For Group 2 helicopters: Within 12 months after the effective date of this AD.

Table 1 – RFM Revision

Helicopter model and s/n	RFM Revision
A119 helicopters having an s/n from 14003 to 14030 inclusive	A119-RFM-A Issue 1 Revision 26
A119/AW119MKII helicopters having an s/n from 14031 to 14900 inclusive	As applicable: A119 IDS RFM - Document N. 109G0040A006 Issue 1 Revision 17 AW119 MKII RFM - Document N. 109G0040A017 Issue 1 Revision 19
AW119MKII helicopters having s/n 14901 or higher	AW119 MKII G1000H/NXI RFM - Document N. 109G0040A033 Issue 1 Revision 18

- (3) Amending the applicable RFM of a helicopter by incorporating an RFM revision which includes the same content as the RFM revision, as identified in Table 1 of this AD, as applicable, is acceptable to comply with the requirements of paragraph (2) of this AD for that helicopter.

Ref. Publications:

Leonardo S.p.A. Helicopters ASB 119-130 original issue dated 05 October 2023.



Leonardo S.p.A. Helicopters A119 RFM - A119-RFM-A Issue 1 Revision 26.

Leonardo S.p.A. Helicopters A119 IDS RFM - Document N. 109G0040A006 Issue 1 Revision 17.

Leonardo S.p.A. Helicopters AW119 MKII RFM - Document N. 109G0040A017 Issue 1 Revision 19.

Leonardo S.p.A. Helicopters 109G0040A033 Issue 1 Revision 18.

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 26 October 2023 as PAD 23-121 for consultation until 23 November 2023. 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, E-mail: engineering.support.lhd@leonardocompany.com.

