



Airworthiness Directive

AD No.: 2024-0193

Issued: 11 October 2024

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):

A109 helicopters

Effective Date: 25 October 2024

TCDS Number(s): EASA.R.005

Foreign AD: Not applicable

Supersedure: None

ATA 26 – Fire Protection – Engine Fire Extinguisher Bottle Connections – Inspection

Manufacturer(s):

Leonardo S.p.A. Helicopters, formerly Finmeccanica S.p.A., AgustaWestland S.p.A., Agusta S.p.A.

Applicability:

A109E helicopters: all serial numbers (S/N).

A109LUH helicopters: all S/N.

A109S helicopters not having the Trekker Kit installed: all S/N.

A109S helicopters having the Trekker Kit installed: all S/N up to 22748 (inclusive), except S/N 22742 and S/N 22747.

AW109SP helicopters: S/N from 22201 to S/N 22460 (inclusive), S/N 22462, S/N 22463 and S/N 22464.

Definitions:

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

The ASB: Leonardo Alert Service Bulletins (ASB) 109EP-185, ASB 109L-124, ASB 109S-122 or ASB 109SP-165, as applicable.



Reason:

Occurrences have been reported of finding incorrect installation of motor (MTR) cables and the bonding braids connected to the engine fire extinguisher bottles.

This condition, if not detected and corrected, could lead to reduced performance of the engine fire extinguishing system, possibly resulting, in case of an engine fire, in reduced control of the helicopter.

To address this potential unsafe condition, Leonardo published the ASB, providing inspection instructions.

For the reason described above, this AD requires accomplishment of a one-time inspection and, depending on findings, corrective actions.

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

Required as indicated by this AD, unless the action(s) required by this AD have been already accomplished:

Inspection:

- (1) Within 3 months or 50 flight hours, whichever occurs first after the effective date of this AD, inspect for correct installation the MTR cables and the bonding braids, left-hand and right-hand side, in accordance with the instructions of the ASB.

Corrective Action(s):

- (2) If, during the inspection as required by paragraph (1) of this AD, any discrepancy is detected, before next flight, accomplish the applicable corrective actions in accordance with the instructions of the ASB.

Ref. Publications:

Leonardo S.p.A. ASB 109EP-185 original issue dated 30 September 2024.

Leonardo S.p.A. ASB 109L-124 original issue dated 30 September 2024.

Leonardo S.p.A. ASB 109S-122 original issue dated 30 September 2024.

Leonardo S.p.A. ASB 109SP-165 original issue dated 30 September 2024.

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. 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. All interested persons may send their comments, referencing the AD Number, to the E-mail



address specified in below Remark 3, prior to 08 November 2024. Only if any comment is received during the consultation period, a Comment Response Document will be published in the [EASA Safety Publications Tool](#), in a 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](#). 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.

