



Airworthiness Directive

AD No.: 2021-0065

Issued: 08 March 2021

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):

A109 helicopters

Effective Date: 22 March 2021

TCDS Number(s): EASA.R.005

Foreign AD: Not applicable

Supersedure: None

ATA 24 – Electrical Power – Wiring Protection – Modification

Manufacturer(s):

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

Applicability:

AW109SP helicopters, serial number (s/n) 22375, and s/n 22387 to 22422 inclusive, except s/n 22404, 22405, 22407, 22409, 22413, 22415, 22419, 22420 and 22421.

A109S helicopters, s/n 22707 to 22717 inclusive, 22721, 22723, 22729 and s/n 22731 to 22734 inclusive.

Definitions:

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

The applicable SB: Leonardo Alert Service Bulletin (SB) 109SP-142 or Alert SB 109S-100, as applicable.

Reason:

Following inspections of helicopters on the production line, it has been determined that, on certain helicopters, the rubber protection of certain electrical wiring has not been installed in the baggage avionics bay.



EASA already issued AD 2018-0149-E to address a similar unsafe condition on a different batch of helicopters.

This condition, if not corrected, could lead to chafing of electrical wiring, possibly resulting in a fire in the baggage compartment and consequent loss of control of the helicopter.

To address this potential unsafe condition, Leonardo published the applicable SB, providing modification instructions.

For the reasons described above, this AD requires installation of rubber protections on the electrical wiring in the baggage/avionics compartment.

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

Required as indicated, unless accomplished previously:

Modification:

Within 200 flight hours after the effective date of this AD, install protective rubber borders on the edge of the baggage/avionics compartment frames in accordance with the instructions of the applicable SB.

Ref. Publications:

Leonardo S.p.A. Helicopters SB 109SP-142 original issue dated 02 February 2021.

Leonardo S.p.A. Helicopters SB 109S-100 original issue dated 02 February 2021.

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 03 February 2021 as PAD 21-016 for consultation until 03 March 2021. 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: aw109.mbx.aw@leonardocompany.com.

