



Airworthiness Directive

AD No.: 2022-0231

Issued: 28 November 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:

AIRBUS HELICOPTERS

Type/Model designation(s):

SA 365, AS 365 and EC 155 helicopters

Effective Date: 12 December 2022

TCDS Number(s): EASA.R.105

Foreign AD: Not applicable

Supersedure: None

ATA 71 – Power Plant – Central Firewall Stiffener – Replacement

Manufacturer(s):

Airbus Helicopters (AH), formerly Eurocopter, Eurocopter France, Aérospatiale

Applicability:

SA 365 N, SA 365 N1, AS 365 N2, AS 365 N3, EC 155 B and EC 155 B1 helicopters, all serial numbers.

Definitions:

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

The ASB: AH Alert Service Bulletin (ASB) AS365-71.00.28 or ASB EC155-71A015, as applicable.

Affected part: Aluminium central firewall stiffener, having Part Number (P/N) 365A58-1102-NE or P/N 365A58-1475-20.

Serviceable part: Titanium central firewall stiffener, having P/N 365A58-1475-2151 or P/N 365A58-1475-2251.

Groups: Group 1 helicopters are those that have an affected part installed.

Group 2 helicopters are those that do not have an affected part installed. A helicopter having AH modification 0771C59 embodied in production is Group 2, provided that no affected part has been installed on that helicopter in service.



Reason:

During the investigation related to an engine compartment fire, the upper stiffener of the central firewall in the engine compartment was found damaged. It was determined that the stiffener, made of aluminium, may not withstand the high temperatures in case of a fire, and consequently may not ensure the proper sealing of the engine compartment.

This condition, if not corrected, could lead, in case of an engine fire, to fire propagation from one engine compartment to the other, possibly resulting in loss of control of the helicopter.

To address this potential unsafe condition, AH issued the ASB, as defined in this AD, to provide instructions for replacement of the aluminium central firewall stiffener with a stiffener made of titanium.

For the reason described above, this AD requires replacement of the affected part with a serviceable part, as defined in this AD.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 helicopters: Within 600 flight hours or 24 months, whichever occurs first after the effective date of this AD, replace the affected part with a serviceable part in accordance with the instructions of paragraph 3.B of the ASB.

Part(s) Installation:

- (2) Do not install an affected part on any helicopter, as required by paragraph (2.1) or (2.2) of this AD, as applicable.
 - (2.1) For Group 1 helicopters: After replacement of the affected part as required by paragraph (1) of this AD.
 - (2.2) For Group 2 helicopters: From the effective date of this AD.

Ref. Publications:

AH ASB AS365-71.00.28 original issue dated 25 October 2022.

AH ASB EC155-71A015 original issue dated 25 October 2022.

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 28 October 2022 as PAD 22-147 for consultation until 25 November 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: Airbus Helicopters (Technical Support)
Web portal: <https://keycopter.airbushelicopters.com> > Technical Requests Management, or
E-mail: TechnicalSupport.Helicopters@airbus.com.

