



Airworthiness Directive

AD No.: 2025-0052

Issued: 28 February 2025

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):

AS 355 helicopters

Effective Date: 14 March 2025

TCDS Number(s): EASA.R.146

Foreign AD: Not applicable

Supersedure: None

ATA 65 – Tail Rotor Drive – Fan Support Legs – Inspection / Replacement

Manufacturer(s):

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

Applicability:

AS 355 E, AS 355 F, AS 355 F1, AS 355 F2 and AS 355 N helicopters, all serial numbers.

Definitions:

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

The ASB: AH Alert Service Bulletin (ASB) AS355-05-00-0002.

Affected part(s): The left-hand (LH) and right-hand (RH) side support of the tail rotor transmission fan, having respectively Part Number (P/N) 355A34104006 (LH) and/or P/N 355A34104106 (RH).

Reason:

Several occurrences were reported, whereby during scheduled maintenance, cracks or failures were found in the legs of one or both of affected part(s), as defined in this AD, installed on helicopters in post-mod 07-9062 configuration.

This condition, if not detected and corrected, could lead to total loss of the fixation of the tail rotor transmission fan (failure of all 4 legs) with subsequent displacement of the fan assembly, which



could lead to loss of the engine and/or main gearbox cooling function and/or loss of the tail rotor drive, possibly resulting in loss of control of the helicopter.

To address this potential unsafe condition, AH issued the ASB, as defined in this AD, providing instructions for inspection of the affected parts and for replacement of both affected parts in case any crack is found on any support leg. Since AH is still investigating the root cause for the cracking of the legs, the ASB provides also instructions for reporting of findings.

For the reasons described above, this AD requires repetitive inspections for cracks of the affected parts, and depending on findings, replacement. This AD also requires reporting of the inspection results in case of found discrepancies.

This AD is considered to be an interim action and further AD action may follow.

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:

Inspections:

- (1) Within 50 flight hours (FH) or 6 months, whichever occurs first after the effective date of this AD, but without exceeding 150 FH or 12 months since last accomplishment of maintenance task 65/10/00/000/000/106 of AH Master Servicing Manual, and, thereafter, at intervals not to exceed 50 FH, inspect both affected parts in accordance with the instructions of the ASB.

Corrective Action(s):

- (2) If, during any inspection as required by paragraph (1) of this AD, any crack is found on any affected part, before next flight, replace both affected parts in accordance with the instructions of the ASB.

Terminating Action:

- (3) None.

Reporting:

- (4) If, during any inspection as required by paragraph (1) of this AD, any crack is found, within 30 days after that inspection, report the inspection results to AH. This can be accomplished in accordance with the instructions of the ASB.

Ref. Publications:

AH ASB AS355-05-00-0002 original issue dated 17 February 2025.

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. 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 28 March 2025. 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: Airbus Helicopters (Technical Support); E-mail: TechnicalSupport.Helicopters@airbus, or Airbus World: Technical Request Management: <https://airbusworld.helicopters.airbus.com>.

