



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 21-058R1

Issued: 25 June 2021

Note: This Proposed Airworthiness Directive (PAD) 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.

In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.

All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation date indicated.

Design Approval Holder's Name:

AIRBUS HELICOPTERS

Type/Model designation(s):

AS 350, EC 130 and EC 120 helicopters

Effective Date: [TBD - standard: 14 days after AD issue date]

TCDS Number(s): EASA.R.008 and EASA.R.508

Foreign AD: Not applicable

Supersedure: None

ATA 31 – Indicating / Recording Systems – Control Unit – Inspection

Manufacturer(s):

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

Applicability:

EC 130 B4 helicopters, all serial numbers (s/n) that have embodied modification (MOD) 073537 in production; and

EC 120 B helicopters, all s/n; and

AS 350 B2 and AS 350 B3 helicopters, all s/n that have embodied MOD 073273 in production, except those that have also embodied MOD 074280 in production.

Definitions:

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

The applicable ASB: AH Alert Service Bulletin (ASB) EC130-05A036, ASB AS350-05.01.00 and ASB EC120-05A023, all at original issue, as applicable.

Affected part: Control units having a Part Number as listed in section 1.A.1. of the applicable ASB.



Serviceable part: An affected part that is new (not previously installed), or that, prior to installation, has passed an inspection (no defects found, or defects corrected) and has been cleaned in accordance with the instructions of the applicable ASB.

Groups: Group 1 helicopters are those that have an affected part installed and are fitted with Emergency Floatation System (EFS).

Group 2 helicopters are those that have an affected part installed and are not fitted with EFS.

Group 3 helicopters are those that do not have an affected part installed and are fitted with EFS.

Group 4 helicopters are those that do not have an affected part installed and are not fitted with EFS.

Reason:

During a flight on an EC 130 B4 helicopter, a strong burnt smell followed by smoke occurred in the cockpit, triggering visual and aural alarms. The investigation determined that the root cause of this event was a short circuit inside the relevant affected part, probably generated by the presence of foreign object damage and/or dust. Failure of an affected part could affect multiple systems including EFS, a system that is intended to minimize the effects of a survivable emergency landing. Due to the design similarity, this condition can also exist or develop on EC 120 and on certain AS 350 helicopters.

This condition, if not detected and corrected, could lead to loss of multiple systems, including EFS, possibly resulting in reduced control of the helicopter, or failure to activate EFS during an emergency water landing.

To address this potential unsafe condition, AH issued the applicable ASB providing inspection and cleaning instructions.

For the reasons described above, this AD requires, for certain helicopters, a one-time inspection and cleaning of the affected parts and, for other helicopters, repetitive inspections and cleaning of the affected parts; and, depending on findings, accomplishment of applicable corrective action(s). This AD also includes requirements for (re)installation of affected parts.

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

This PAD is revised to expand the Applicability for EC 120 B helicopters, and republished for additional consultation.

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

Required as indicated, unless accomplished previously:

Cleaning / Inspection:

- (1) For Group 1, Group 2, Group 3 and Group 4 helicopters: Within the compliance time as specified in Table 1 of this AD, as applicable, clean and inspect the affected part in accordance with the instructions of sections 3.B.2 and 3.B.3 of the applicable ASB.



Table 1 – Inspection (see Note 1 of this AD)

Group	Flight Hours (FH) Accumulated	Compliance Time
1	900 FH or less	Before exceeding 1 200 FH
	More than 900 FH	Within 300 FH or 12 months, whichever occurs first after the effective date of this AD
2	600 FH or less	Before exceeding 1 200 FH
	More than 600 FH	Within 600 FH or 24 months, whichever occurs first after the effective date of this AD
3	N/A	Before exceeding 1 200 FH after embodiment of AH EC120 Service Bulletin (SB) 31-004 in service
4	N/A	Before exceeding 1 200 FH after embodiment of AH EC120 SB 31-004 in service

Note 1: Unless specified otherwise, the FH indicated in Table 1 of this AD are those accumulated by the helicopter on the effective date of this AD since first flight.

Repetitive Inspections:

- (2) For Group 1 and Group 3 helicopters: Within 1 320 FH after the inspection as required by paragraph (1) of this AD, and, thereafter, at intervals not to exceed 1 320 FH, clean and inspect the affected part in accordance with the instructions of sections 3.B.2 and 3.B.3 of the applicable ASB.

Corrective Action(s):

- (3) If, during any inspection as required by paragraph (1) or (2) of this AD, as applicable, discrepancies are detected as identified in the applicable ASB, before next flight, accomplish the applicable corrective action(s) in accordance with the instructions of the applicable ASB.

Terminating Action:

- (4) None.

Part(s) Installation:

- (5) For Group 1 and Group 2 helicopters: From the effective date of this AD, it is allowed to (re-)install on any helicopter an affected part, provided the part is a serviceable part, as defined in this AD.
- (6) For Group 3 and Group 4 helicopters: From the effective date of this AD, it is allowed to install on any helicopter an affected part, provided the part is a serviceable part, as defined in this AD, and that, following installation, it is inspected as required by this AD.

Ref. Publications:

AH ASB EC130-05A036 original issue dated 31 March 2021.

AH ASB No. AS350-05.01.00 original issue dated 31 March 2021.



AH ASB EC120-05A023 original issue dated 31 March 2021.

The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

Remarks:

1. This Proposed AD will be closed for consultation on 09 July 2021.
2. Enquiries regarding this PAD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.
3. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this PAD, and which may occur, or have occurred on a product, part or appliance not affected by this PAD, 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 PAD 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.
4. For any question concerning the technical content of the requirements in this PAD, please contact: Airbus Helicopters Customer Support, Telephone +33 (0)4.42.85.97.89, Fax + 33 (0)4.42.85.99.66, E-mail: Airframe.Technical-Support@airbus.com, Keycopter Technical Request Management: TechnicalSupport.Helicopters@airbus.com.

