



Notification of a Proposal to issue an Airworthiness Directive

PAD No.: 19-042

Issued: 21 March 2019

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):

EC 225 LP helicopters

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

TCDS Number(s): EASA.R.002

Foreign AD: Not applicable

Supersedure: None

ATA 28 – Fuel – Engine Fuel Supply Hoses – Inspection

Manufacturer(s):

Airbus Helicopters (AH), formerly Eurocopter

Applicability:

EC 225 LP helicopters, all manufacturer serial numbers.

Definitions:

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

Affected part: Left hand (LH) side engine fuel supply hose Part Number 704A34416087.

Serviceable part: An affected part which is new (never previously installed); or an affected part which was previously installed on a helicopter and, before reinstallation, has passed an inspection (no defect found) in accordance with the instructions of section 3.B.5 of the ASB; or an affected part which was originally installed on a Group 2 helicopter and was never previously reinstalled.

The ASB: AH Alert Service Bulletin (ASB) EC225-71A019 Revision 1.



Groups:

Group 1 helicopters are those delivered to the first operator before 30 November 2018; and those delivered to the first operator on 30 November 2018 or later, on which the affected part or the LH side engine were replaced or reinstalled before the effective date of this AD.

Group 2 helicopters are those delivered to the first operator on 30 November 2018 or later, on which the affected part and the LH side engine were not replaced or reinstalled before the effective date of this AD.

Reason:

An occurrence was reported where, during an in-flight single engine power check, LH side engine power loss was experienced. Subsequent investigation determined that the fuel flow to the affected engine was restricted by a twisted fuel supply hose.

This condition, if not detected and corrected, could lead to decrease of the LH engine power when accelerating to power setting corresponding to One Engine Inoperative power, possibly resulting in reduced control of the helicopter.

To address this potential unsafe condition, AH issued ASB EC225-71A019 (later revised) to provide inspection instructions. Additionally, AH intends to revise the applicable Aircraft Maintenance Manual (MMA) work cards 71-00-00-051 (Removal - Installation - POWER PLANT) and 28-20-00-068 (Removal / Installation - LH engine fuel supply line - FUEL SUPPLY SYSTEM) to provide improved fuel hose installation instructions, thereby preventing improper installation of an affected part.

For the reasons described above, this AD requires a one-time inspection of the affected parts and, depending on findings, accomplishment of applicable corrective action(s). This AD also introduces requirements for (re)installation of an affected part and LH side engine.

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

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

Required as indicated, unless accomplished previously:

Inspection(s):

- (1) Group 1 helicopters: Within 110 flight hours or 6 months, whichever occurs first after the effective date of this AD, inspect the affected part in accordance with the instructions of the section 3.B.2 of the ASB.

Corrective Action(s):

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

Credit:

- (3) Inspection(s) and corrective action(s) accomplished on a helicopter, before the effective date of this AD, in accordance with the instructions of AH ASB EC225-71A019 original issue are acceptable to comply with the requirements of paragraphs (1) and (2) of this AD for that helicopter.



Parts Installation:

- (4) Group 1 and Group 2 helicopters: From the effective date of this AD, it is allowed to install or reinstall on any helicopter an affected part, or a LH side engine, provided that the affected part is a serviceable part, as defined in this AD, and that the (re)installation is accomplished in accordance with the instructions of section 3.B.3 of the ASB.
- (5) Installation of a serviceable part on a helicopter accomplished in accordance with the instructions of AH MMA work cards 71-00-00-051 or 28-20-00-068 (provided these include instructions equal to those detailed in section 3.B.3 of the ASB) is an acceptable alternative method to comply with the (re)installation requirements of paragraph (4) of this AD.

Ref. Publications:

AH ASB EC225-71A019 original issue dated 26 February 2019, or Revision 1 dated 28 February 2019.

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

Remarks:

1. This Proposed AD will be closed for consultation on 18 April 2019.
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](#).
4. For any question concerning the technical content of the requirements in this PAD, please contact: Airbus Helicopters (Technical Support), Aéroport de Marseille Provence 13725 Marignane Cedex, France, Telephone +33 (0)4 42 85 97 97, Fax +33 (0)4 42 85 99 66, Web portal: <https://keycopter.airbushelicopters.com> > Technical Requests Management, E-mail: support.technical-dyncomp.ah@airbus.com, and TechnicalSupport.Helicopters@airbus.com.

