



Airworthiness Directive

AD No.: 2017-0190

Issued: 25 September 2017

Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) 216/2008 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 66 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 (EC) 216/2008, Article 14(4) exemption].

Design Approval Holder's Name:

AIRBUS HELICOPTERS

Type/Model designation(s):

EC175 B helicopters

Effective Date: 09 October 2017

TCDS Number(s): EASA.R.150

Foreign AD: Not applicable

Supersedure: None

ATA 28 – Fuel System – Additional Fuel Tank 4 – Inspection

Manufacturer(s):

Airbus Helicopters (AH)

Applicability:

EC175 B helicopters all manufacturer serial numbers.

Reason:

An occurrence was reported on a breakable self-sealing coupling system for which the valve was not fully tightened, or seated, in a helicopter fuel tank with similar design as EC175 B additional fuel tank Nr. 4, Part Number (P/N) M281G20A4004. Subsequent investigation determined that this deviation from the approved design resulted from deficiencies during the assembly of the valve into the fuel tank, affecting batch of tanks identified by serial numbers (s/n).

This condition, if not detected and corrected, could compromise the sealing function of the breakable coupling and result in fuel leakage after crash with possible fire and injury to the occupants.

Prompted by this determination, Zodiac Aerosafety Systems (Zodiac), the manufacturer of the affected fuel tanks Nr. 4 P/N M281G20A4004 (Zodiac P/N 509508-4), introduced quality control improvements, implemented from tank s/n 101. Zodiac also published Service Bulletin (SB) 509508-28-001, providing inspection and repair instructions.



To address this potentially unsafe condition, AH issued Alert Service Bulletin (ASB) EC175-28A001, endorsing and referring to Zodiac SB.

For the reason described above, this AD requires a one-time inspection of the breakable self-sealing coupling of each affected fuel tank and, depending on findings, accomplishment of applicable corrective action(s). This AD also requires inspection of each affected fuel tank before installation.

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

Required as indicated, unless accomplished previously:

Note 1: For the purpose of this AD, additional fuel tanks Nr. 4, P/N M281G20A4004, (Zodiac P/N 509508-4), s/n 1 to 100 (inclusive), except those that have been inspected and corrected in accordance with the instructions of Zodiac Aerosafety Systems SB 509508-28-001, are hereafter referred to as “affected tank” in this AD.

Note 2: AH ASB No. EC175-28A001 is hereafter referred to as “the ASB” in this AD.

Note 3: For the purpose of this AD, Group 1 helicopters are those that have an affected fuel tank (see Note 1 of this AD) installed. Group 2 helicopters are those that do not have an affected fuel tank installed.

Inspection(s):

(1) For Group 1 helicopters: Within 880 flight hours (FH) or 24 months, whichever occurs first after the effective date of this AD, visually inspect the breakable self-sealing coupling of each affected tank (see Note 1 of this AD) in accordance with the instructions of Paragraph 3.B of the ASB.

Corrective Action(s):

(2) If, during the inspection as required by paragraph (1) of this AD, a gap is detected, as defined in the ASB, before next flight, accomplish the applicable corrective action(s) in accordance with the instructions of Paragraph 3.B.3 of the ASB.

Parts Installation:

(3) For Group 1 and Group 2 helicopters: From the effective date of this AD, it is allowed to install an affected tank (see Note 1 of this AD) on a helicopter provided that, before installation, the affected tank has passed an inspection in accordance with the instructions of the ASB, or in accordance with the instructions of Zodiac Aerosafety Systems SB 509508-28-001.

Ref. Publications:

AH ASB No. EC175-28A001 original issue, dated 02 June 2017.

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

Zodiac Aerosafety Systems SB 509508-28-001 original issue, dated 31 May 2017.



Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 22 August 2017 as PAD 17-115 for consultation until 19 September 2017. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the 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. For any question concerning the technical content of the requirements in this AD, 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,
E-mail: Web portal: <https://keycopter.airbushelicopters.com> > Technical Requests Management, or E-mail: support.technical-engine.ah@airbus.com

