



Airworthiness Directive

AD No.: 2020-0043

Issued: 02 March 2020

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, 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 (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AIRBUS HELICOPTERS

Type/Model designation(s):

EC 155 helicopters

Effective Date: 16 March 2020

TCDS Number(s): EASA.R.105

Foreign AD: Not applicable

Supersedure: None

ATA 63 – Main Rotor Drive – Main Gearbox – Replacement

Manufacturer(s):

Airbus Helicopters (AH), formerly Eurocopter, Eurocopter France

Applicability:

EC 155 B and EC 155 B1 helicopters, all manufacturer serial numbers.

Definitions:

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

The ASB: AH Alert Service Bulletin (ASB) EC155-63A020.

Affected part: Main gearbox (MGB) housings, having Part Number (P/N) 365A32-2046-15 or P/N 365A32-2046-16, and having serial number FAFJ5462, FAFN3843, FAFN7553, FAGA9942 or FAH47927.

Affected MGB: Any MGB with an affected part installed.

Serviceable MGB: An MGB which is not an affected MGB, or an affected MGB which has been inspected by AH and returned for installation in accordance with the instructions of the ASB.

Groups: Group 1 helicopters are those that have an affected MGB installed. Group 2 helicopters are those that do not have an affected MGB installed.



Reason:

Non-destructive tests, conducted on MGB housings at manufacturing level, may have been evaluated incorrectly.

This condition, if not corrected, could lead to failure of the affected MGB housing, possibly resulting in reduced control of the helicopter.

To address this unsafe condition, AH identified the (limited) population of affected parts and issued the ASB to provide instructions for replacement of affected MGB.

For the reason described above, this AD requires replacement of affected MGB with serviceable MGB and prohibits (re)installation of affected MGB.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 helicopters: Within 10 flight hours or 75 days, whichever occurs first after the effective date of this AD, replace the affected MGB with a serviceable MGB in accordance with the instructions of Section 3 of the ASB.

Parts Installation:

- (2) For Group 1 and Group 2 helicopters: From the effective date of this AD, do not install an affected MGB on any helicopter.

Ref. Publications:

AH ASB EC155-63A020 original issue dated 19 February 2020.

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.
3. Enquiries regarding this AD should be referred to the EASA Programming and Continued Airworthiness 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](#).



5. For any question concerning the technical content of the requirements in this AD, please contact: Airbus Helicopters – Aéroport de Marseille Provence, 13725 Marignane Cedex, France
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