



## Emergency Airworthiness Directive

**AD No.:** 2018-0142-E

**Issued:** 04 July 2018

Note: This Emergency 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):

AS 332 helicopters

**Effective Date:** 06 July 2018

**TCDS Number(s):** EASA.R.002

**Foreign AD:** Not applicable

**Supersedure:** None

### ATA 25, 30, 53 - Equipment & Furnishings / Ice and Rain Protection / Fuselage – Removal

### Manufacturer(s):

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

### Applicability:

AS 332 C, AS 332 C1, AS 332 L, AS 332 L1 helicopters, all manufacturer serial numbers, if equipped with dual hoist installation and de-icing system, except those that have AH modification (MOD) 0722907 installed in production.

### Definitions:

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

**The ASB:** AH AS332 Emergency Alert Service Bulletin (ASB) 01.00.91.

### Reason:

During the first flight of an AS 332 L helicopter after a retrofit re-installing the de-icing system, a phenomenon involving vibrations around the 12 Hz frequency was observed. Subsequent flight tests determined that this vibration is due to the specific helicopter configuration, involving riveted main frames X3855 and X5295 (pre-MOD 0722907), additional weight created by parts of the rotor de-icing system on the main rotor head (the distributor and de-icing harnesses) and removable parts (hoist arm and hoists) of the dual hoist installation.



This condition, if not corrected, could potentially generate divergent aeromechanic coupling between the helicopter structure and the rotor, possibly resulting in mechanical failure of structural parts and/or loss of control of the helicopter.

To address this potential unsafe condition, AH issued the ASB and the Safety Information Notice No. 3234-S-67 providing additional information.

For the reason described above, this AD requires removal of removable parts of the dual hoist installation, or removal of the de-icing system.

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

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

Required as indicated, unless accomplished previously:

#### **Removal:**

Before next flight after the effective date of this AD, remove the removable parts of the dual hoist installation, or remove the de-icing system in accordance with the instructions of the paragraph 3. of the ASB.

#### **Ref. Publications:**

AH AS332 Emergency ASB 01.00.91 original issue dated 03 July 2018.

The use of later approved revisions of 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. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto: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 (EBSESB) – Aéroport de Marseille Provence 13725 Marignane Cedex, France, Telephone +33 (4) 42 85 97 97; Fax +33 (4) 42 85 99 66; E-mail: [Directive.technical-support@airbus.com](mailto:Directive.technical-support@airbus.com).

