



Emergency Airworthiness Directive

AD No.: 2023-0006-E

Issued: 12 January 2023

Note: This Emergency 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, or Annex Vb Part ML.A.301, as applicable, 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 Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AIRBUS HELICOPTERS DEUTSCHLAND GmbH

Type/Model designation(s):

MBB-BK117 and BO105 helicopters

Effective Date: 16 January 2023

TCDS Number(s): EASA.R.010 and EASA.R.011

Foreign AD: Not applicable

Supersedure: None

ATA 62 – Main Rotor – Swashplate Assembly – Inspection

Manufacturer(s):

Airbus Helicopters Deutschland GmbH (AHD), formerly Eurocopter Deutschland GmbH, Eurocopter Hubschrauber GmbH, Messerschmitt-Bölkow-Blohm GmbH; Airbus Helicopters Inc., formerly American Eurocopter LLC; Eurocopter Canada Ltd, formerly Messerschmitt-Bölkow-Blohm Helicopter Canada Ltd.

Applicability:

BO105 A, BO105 C, BO105 D, BO105 S, BO105 LS A-1 and BO105 LS A-3 (see Note 1 of this AD) helicopters, all variants, all serial numbers (s/n), and

MBB-BK117 A-1, MBB-BK117 A-3, MBB-BK117 A-4, MBB-BK117 B-1, MBB-BK117 B-2, MBB-BK117 C-1, MBB-BK117 C-2 and MBB-BK117 D-2 helicopters, all variants, all s/n.

Note 1: BO105 LS A-3 helicopters, modified in accordance with EASA Supplemental Type Certificate (STC) 10039633, or previously by LBA STC EMZ NR. 0654/3058 (so called "Superlifter"), are affected by this AD.

Definitions:

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



Affected part: Swashplate having Part Number (P/N) D623M2002102, P/N D623M2002103, P/N B623M2002101, P/N B623M2002102, P/N 117-41904, P/N 117-41905, P/N 117-41905-001, P/N 1120-41904, P/N 1121-41904, P/N 105-419051, P/N 105-419051-001, P/N 105-41905, P/N 105-41905-001, P/N 105-41901, P/N 105-41902, P/N 105-41902-001, P/N 105-41904 or P/N 105-41904-001.

The ASB: Airbus Helicopters (AH) Emergency Alert Service Bulletin (ASB) BO105-40A-110, BO105LS-40A-15, BO105 LS A-3-STC-0654/3058-40A-3, MBB-BK117-40A-118 and MBB-BK117-62-32-0001 (issued as single document).

Reason:

An occurrence was reported of finding an affected part with a missing inner ring. Investigations are still on going to identify the root cause of this event.

This condition, if not detected and corrected, could lead to loss of control of the helicopter.

To address this potential unsafe condition, AH issued the ASB to provide applicable instructions.

For the reasons described above, this AD requires a check of proper installation of the swashplate inner ring and, depending on findings, corrective actions.

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

Required as indicated, unless accomplished previously:

Inspection:

- (1) Before next flight after the effective date of this AD, inspect the affected part in accordance with the instructions of the ASB.

Corrective Action(s):

- (2) If, during the inspection as required by paragraph (1) of this AD, it is determined that the swashplate inner ring is not installed, or if it cannot be determined that the swashplate inner ring is installed, before next flight, contact AHD to obtain approved instructions, and within the compliance time(s) specified therein, accomplish those instructions accordingly.

Part(s) Installation:

- (3) From the effective date of this AD, it is allowed to install on any helicopter an affected part, provided that, before installation, it is determined that the inner ring is installed on that affected part.

Ref. Publications:

AH Emergency ASB BO105-40A-110, BO105LS-40A-15, BO105 LS A-3-STC-0654/3058-40A-3, MBB-BK117-40A-118 and MBB-BK117-62-32-0001 (issued as single document) original issue dated 11 January 2023.

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. 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.
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](#). This may include reporting on the same or similar components, other than those covered by the design to which this AD 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.
5. For any question concerning the technical content of the requirements in this AD, please contact: Airbus Helicopters Deutschland GmbH, Industriestrasse 4, 86609 Donauwörth, Federal Republic of Germany, Telephone: + 33 (0)4 42 85 97 97;
Web portal: <https://airbusworld.helicopters.airbus.com>
E-mail: customersupport.helicopters@airbus.com.

