



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2018-02-012	發布日期 Date issued	2018/3/1
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	MBB-BK117 A-1, MBB-BK117 A-3, MBB-BK117 A-4, MBB-BK117 B-1, MBB-BK117 B-2, MBB-BK117 C-1 and MBB-BK117 C-2 helicopters, all serial numbers.		
主旨摘要	Tail Rotor Drive - Tail Gear Box - Inspection / Replacement		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <input type="checkbox"/> FAA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> Brazil <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC <input type="checkbox"/> Germany LBA <input type="checkbox"/> CAA-NL <input type="checkbox"/> UK CAA <input type="checkbox"/> Japan CAB <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____		
	設計國 AD 編號 Original AD number	2018-0046	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 65. Ref. Publications: AH ASB MBB-BK117-30A-120 original issue dated 31 January 2018. and AH ASB MBB-BK117 C-2-65A-008 original issue dated 31 January 2018.		
註： Note：	1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel:(02)2349-6331~3, Fax:(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>		



## Airworthiness Directive

**AD No.:** 2018-0046

**Issued:** 19 February 2018

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 DEUTSCHLAND GmbH

### Type/Model designation(s):

MBB-BK 117 helicopters

**Effective Date:** 05 March 2018

**TCDS Number(s):** EASA.R.010

**Foreign AD:** Not applicable

**Supersedure:** None

## ATA 65 – Tail Rotor Drive – Tail Gear Box – Inspection / Replacement

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### 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)

### Applicability:

MBB-BK117 A-1, MBB-BK117 A-3, MBB-BK117 A-4, MBB-BK117 B-1, MBB-BK117 B-2, MBB-BK117 C-1 and MBB-BK117 C-2 helicopters, all serial numbers.

### Definitions:

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

**The ASB:** Airbus Helicopters (AH) Alert Service Bulletin (ASB) MBB-BK117-30A-120 or AH ASB MBB-BK117 C-2-65A-008, as applicable.

**TGB:** Tail Gear Box having Part Number 4639003001, 4639003007, 4639003009, 4639003011 or 4639003013.

### Reason:

A crack on the bellcrank attachment arm has been detected on the TGB of an MBB-BK117 A-4 helicopter.



This condition, if not detected and corrected, could lead to disconnection of the bellcrank attachment arm from the TGB, with possible loss of control of the helicopter, eventually resulting in damage to the helicopter and/or injury to occupants.

To address this potential unsafe condition, AH issued the ASBs providing instructions for inspection of the TGB bellcrank attachment arm.

For the reason described above, this AD requires inspection of the TGB bellcrank attachment arm and, depending on finding, TGB replacement or repair.

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

Required as indicated, unless accomplished previously:

#### **Inspection:**

- (1) Within 100 flight hours after the effective date of this AD, inspect the TGB bellcrank attachment arm in accordance with the instructions of the ASB.

#### **Corrective Actions:**

- (2) If, during the inspection as required by paragraph (1) of this AD, any crack or anomaly, as identified in the ASB, is (are) detected, before next flight, accomplish the corrective actions, as applicable, in accordance with the instructions of the ASB.

#### **Parts Installation:**

- (3) From the effective date of this AD, it is allowed to install a TGB on a helicopter provided it passed the inspection as required by paragraph (1) of this AD.

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

AH ASB MBB-BK117-30A-120 original issue dated 31 January 2018.

AH ASB MBB-BK117 C-2-65A-008 original issue dated 31 January 2018.

The use of later approved revisions of the above-mentioned documents 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 Safety Information Section, Certification Directorate. E-mail: [ADs@easa.europa.eu](mailto:ADs@easa.europa.eu).
4. 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



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Web portal: <https://keycopter.airbushelicopters.com> > Technical Request Management

E-mail: [customersupport.helicopters@airbus.com](mailto:customersupport.helicopters@airbus.com).

