



Airworthiness Directive

AD No.: 2018-0003

Issued: 05 January 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:

SAFRAN HELICOPTER ENGINES

Type/Model designation(s):

ARRIEL 1E2 engines

Effective Date: 19 January 2018

TCDS Number(s): EASA.E.073

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2017-0061 dated 07 April 2017.

ATA 05 – Time Limits / Maintenance Checks – Airworthiness Limitation Section – Amendment / Implementation

Manufacturer(s):

SAFRAN Helicopter Engines, formerly Turboméca, S.A.

Applicability:

ARRIEL 1E2 engines, all manufacturer serial numbers.

These engines are known to be installed on, but not limited to, Airbus Helicopters Deutschland (formerly Eurocopter Deutschland) MBB-BK117-C1 and MBB-BK117-C2 helicopters.

Reason:

The airworthiness limitations and maintenance tasks applicable to the ARRIEL 1E2 engines series are currently specified in the applicable ARRIEL 1E2 maintenance manual (MM), Section 05-10, which is approved by EASA. These limitations and instructions have been identified as mandatory for continued airworthiness.

Failure to implement these limitations or accomplish these tasks could result in an unsafe condition.

SAFRAN Helicopter Engines recently issued ARRIEL 1E2 MM Section 05-10 dated 02 February 2017, hereafter referred to as 'the ALS' in this AD, to incorporate the instructions originally provided by



Turboméca Mandatory Service Bulletin (SB) 292 72 0842 version C. The implementation of that SB was required by EASA AD 2017-0061.

For the reasons described above, this AD retains the requirements of EASA AD 2017-0061, which is superseded, and requires implementation of the airworthiness limitations and maintenance tasks as specified in the ALS.

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

Required as indicated, unless accomplished previously:

Replacement of Life-Limited Parts / Maintenance Tasks:

(1) From the effective date of this AD, accomplish the following actions, as specified in the ALS:

(1.1) Replace each component before exceeding the applicable life limit, and

(1.2) Within the thresholds and intervals (see Note 1 of this AD), accomplish all applicable maintenance tasks.

Note 1: For the purpose of this AD, the thresholds and intervals as defined in the ALS may include a 'tolerance' for certain tasks.

Corrective Action(s):

(2) In case of finding discrepancies (as defined in the ALS) during accomplishment of any task as required by paragraph (1) of this AD, within the compliance time specified in the ALS, accomplish the applicable corrective actions in accordance with the applicable SAFRAN Helicopter Engines maintenance documentation. If no compliance time is identified in the ALS, accomplish the applicable corrective actions before next flight. If a detected discrepancy is not identified in the ALS, before next flight, contact SAFRAN Helicopter Engines for approved instructions and accomplish those instructions accordingly.

Aircraft Maintenance Programme (AMP) Amendment:

(3) Within 12 months after the effective date of this AD, revise the approved AMP, on the basis of which the operator or owner of the helicopter (on which an affected engine is installed) ensures the continuing airworthiness of each operated engine, by incorporating the limitations, tasks and associated thresholds and intervals described in the ALS.

Credit:

(4) For an AMP that, on the effective date of this AD, is already updated to incorporate the maintenance tasks and life limitations as specified in ARRIEL 1E2 MM Section 05-10 dated 05 June 2014, that action ensures (see Note 2 of this AD) the continued accomplishment of those tasks and limitations.

Consequently, for an engine to which that AMP applies, it is acceptable to accomplish the new and more restrictive tasks and limitations, as defined in, and within the compliance times (see Note 1 of this AD) as specified in, the ALS, to comply with paragraph (1) of this AD.

For that AMP, it is acceptable to incorporate the new and more restrictive tasks and limitations, as defined in the ALS, into the AMP to comply with paragraph (3) of this AD.



Recording of AD Compliance:

- (5) When the AMP of a helicopter has been revised as required by paragraph (3) or (4) of this AD, as applicable, that action ensures (see Note 2 of this AD) continued accomplishment of the tasks as required by paragraphs (1) and (2) of this AD for the affected engine(s) installed on that helicopter. Consequently, after revising the AMP, as required by paragraph (3) or (4) of this AD, as applicable, it is not necessary that accomplishment of individual tasks is recorded for demonstration of AD compliance on a continued basis.

Note 2: For affected ARRIEL 1E2 engines installed on helicopters registered in Europe, complying with the approved AMP, as specified in paragraph (3) or (4) of this AD, as applicable, is required by Commission Regulation (EU) [1321/2014](#), Part M.A.301, paragraph 3.

Ref. Publications:

SAFRAN Helicopter Engines ARRIEL 1E2 MM, Section 05-10, dated 05 June 2014 and dated 02 February 2017.

The use of later approved revisions of this 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. This AD was posted on 01 December 2017 as PAD 17-160 for consultation until 29 December 2017. No comments were received during the consultation period.
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: SAFRAN Helicopter Engines, ARRIEL 1 Customer Support, 40220 Tarnos, France Fax: +33 5 59 74 45 15, or contact [SAFRAN on-line for technical assistance](#).

