



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2020-11-010A	發布日期 Date issued	2022/7/6
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	CFM56-3 engines, all models, all serial numbers (s/n). CFM56-7B20, CFM56-7B20/2, CFM56-7B20/3, CFM56-7B22, CFM56-7B22/2, CFM56-7B22/3, CFM56-7B22/3B1, CFM56-7B22/B1, CFM56-7B24, CFM56-7B24/2, CFM56-7B24/3, CFM56-7B24/3B1, CFM56-7B24/B1, CFM56-7B26, CFM56-7B26/2, CFM56-7B26/3, CFM56-7B26/3B1, CFM56-7B26/3B2, CFM56-7B26/3B2F, CFM56-7B26/3F, CFM56-7B26/B1, CFM56-7B26/B2, CFM56-7B27, CFM56-7B27/2, CFM56-7B27/3, CFM56-7B27/3B1, CFM56-7B27/3B1F, CFM56-7B27/3B3, CFM56-7B27/3F, CFM56-7B27/B1 and CFM56-7B27/B3 engines, all s/n. These engines are known to be installed on, but not limited to, Boeing 737 aeroplanes.		
主旨摘要 Subject	Engine - Accessory Gearbox - Modification		
民航局 CAA <input type="checkbox"/> 本國產品 Native product  <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authority <input type="checkbox"/> FAA <span style="margin-left: 200px;"><input type="checkbox"/> Germany LBA</span> <input checked="" type="checkbox"/> EASA <span style="margin-left: 180px;"><input type="checkbox"/> CAA-NL</span> <input type="checkbox"/> Brazil <span style="margin-left: 180px;"><input type="checkbox"/> UK CAA</span> <input type="checkbox"/> Transport Canada Civil Aviation <span style="margin-left: 100px;"><input type="checkbox"/> Japan CAB</span> <input type="checkbox"/> DGAC <span style="margin-left: 180px;"><input type="checkbox"/> CAA of Israel</span> <input type="checkbox"/> Other _____		
	設計國 AD 編號 Original AD number	2020-0261R1	
	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備註 Note	This AD revises EASA AD 2020-0261(CAA-2020-11-010) dated 27 November 2020, which superseded EASA AD 2012-0209 dated 08 October 2012.		
註： 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)2349-6330 / 6332, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 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)2349-6330 / 6332, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



## Airworthiness Directive

**AD No.:** 2020-0261R1

**Issued:** 30 June 2022

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 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:

CFM INTERNATIONAL S.A.

### Type/Model designation(s):

CFM56-3 and CFM56-7B engines

**Effective Date:** Revision 1: 07 July 2022  
Original issue: 11 December 2020

**TCDS Number(s):** EASA.E.066 and EASA.E.004

**Foreign AD:** Not applicable

**Revision:** This AD revises EASA AD 2020-0261 dated 27 November 2020, which superseded EASA AD 2012-0209 dated 08 October 2012.

## ATA 72 – Engine – Accessory Gearbox – Modification

### Manufacturer(s):

SAFRAN Aircraft Engines, formerly SNECMA (France); General Electric Aviation (United States)

### Applicability:

CFM56-3 engines, all models, all serial numbers (s/n).

CFM56-7B20, CFM56-7B20/2, CFM56-7B20/3, CFM56-7B22, CFM56-7B22/2, CFM56-7B22/3, CFM56-7B22/3B1, CFM56-7B22/B1, CFM56-7B24, CFM56-7B24/2, CFM56-7B24/3, CFM56-7B24/3B1, CFM56-7B24/B1, CFM56-7B26, CFM56-7B26/2, CFM56-7B26/3, CFM56-7B26/3B1, CFM56-7B26/3B2, CFM56-7B26/3B2F, CFM56-7B26/3F, CFM56-7B26/B1, CFM56-7B26/B2, CFM56-7B27, CFM56-7B27/2, CFM56-7B27/3, CFM56-7B27/3B1, CFM56-7B27/3B1F, CFM56-7B27/3B3, CFM56-7B27/3F, CFM56-7B27/B1 and CFM56-7B27/B3 engines, all s/n.

These engines are known to be installed on, but not limited to, Boeing 737 aeroplanes.

### Definitions:

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



**Affected AGB:** Accessory gearboxes (AGB), having Part Number (P/N) 335-300-103-0, P/N 335-300-105-0, P/N 335-300-106-0, P/N 335-300-107-0, P/N 335-300-108-0, P/N 335-300-109-0 or P/N 335-300-110-0 (for CFM56-3 engines); or P/N 340-046-503-0, P/N 340-046-504-0 or P/N 340-046-505-0 (for CFM56-7B engines).

**Serviceable AGB:** AGB, eligible for installation, which are not affected AGB, which includes AGB having P/N 335-300-112-0 (for CFM56-3 engines); or P/N 340-046-508-0, or P/N 340-046-509-0 or P/N 340-046-528-0 (for CFM56-7B engines).

**The applicable S/B:** CFM International (CFMI) Service Bulletin (S/B) CFM56-3 S/B 72-1129, CFM56-7B S/B 72-0564 Revision 2, CFM56-7B S/B 72-0879 Revision 1 and CFM56-7B S/B 72-1071, as applicable.

**Groups:** Group 1 engines are those that have an affected AGB installed. Group 2 engines are those that do not have an affected AGB installed.

**Qualifying engine shop visit:** A shop visit which involves the removal of at least one of the engine major modules: fan, core engine, or low pressure turbine.

#### Reason:

Reports were received of CFM56-3 and CFM56-7B engine oil loss and engine failure, following the accomplishment of maintenance tasks which included the removal of the AGB hand-cranking cover. In four instances, the oil loss affected both engines on the same aeroplane. The results of subsequent investigations determined that, in each event, the AGB hand-cranking cover had been re-installed incorrectly.

This condition, if not detected and corrected, may lead to engine oil loss, possibly resulting in engine failure and consequent reduced control of the aeroplane.

To address this potential unsafe condition, CFMI developed an improved AGB and issued the applicable S/B. Consequently, EASA issued AD 2012-0209 to require replacement of all affected AGB with serviceable AGB. That AD also prohibited (re)installation of affected AGB on modified engines.

After that AD was issued, the compliance time for AGB replacement was re-assessed, and CFMI revised accordingly CFM56-3 S/B 72-1129 (now at Revision 7) and CFM56-7B S/B 72-0564 (now at Revision 9). EASA issued AD 2020-0261, retaining the requirements of EASA AD 2012-0209, which was superseded, but introducing a calendar date limit for AGB replacement.

Since that AD was issued, new serviceable AGB have been approved, and CFMI issued relevant instructions for installation. This AD is revised accordingly, to allow installation of these new serviceable AGB.

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

Required as indicated, unless accomplished previously:



**AGB Replacement/Upgrade:**

- (1) For Group 1 CFM56-3 engines: Not later than during the first qualifying engine shop-visit beginning after 01 March 2013, and in any case not later than 31 December 2026, replace each affected AGB with a serviceable AGB; this can be accomplished in accordance with the instructions of the applicable S/B.
- (2) For Group 1 CFM56-7B engines: Not later than during the first qualifying engine shop-visit beginning after 22 October 2012 [the effective date of EASA AD 2012-0209], and in any case not later than 31 December 2024, replace each affected AGB with a serviceable AGB; this can be accomplished in accordance with the instructions of the applicable S/B.
- (3) Modification and re-identification of an affected AGB into a serviceable AGB, in accordance with applicable CFMI instructions, is an acceptable mean to comply with the requirements of paragraph (1) or (2) of this AD, as applicable, for that AGB.

**Repetitive Inspections:**

- (4) For Group 1 engines: From 22 October 2012 [the effective date of EASA AD 2012-0209] and until the engine is modified as required by paragraph (1) or (2) of this AD, as applicable, any maintenance task which involves the removal and re-installation of the AGB hand-cranking cover must be classified “flight safety sensitive maintenance” and an independent inspection of the correct installation of the hand-cranking cover must be carried out, prior to release to service of the aeroplane or the engine, as applicable.

**Parts Installation:**

- (5) Do not install an affected AGB on any engine as required by paragraph (5.1) and (5.2) of this AD, as applicable:
  - (5.1) For Group 1 engines: After modification of the engine as required by paragraph (1) or (2) of this AD, as applicable.
  - (5.2) For Group 2 engines: From 11 December 2020 [the effective date of the original issue of this AD].

**Ref. Publications:**

CFMI CFM56-7B S/B 72-0564 Revision 2 dated 16 November 2010, Revision 3 dated 25 May 2011, Revision 4 dated 30 September 2013, Revision 5 dated 14 January 2014, Revision 6 dated 20 January 2017, Revision 7 dated 07 November 2018, Revision 8 dated 06 May 2020 and Revision 9 dated 03 December 2021.

CFMI CFM56-3 S/B 72-1129 original issue dated 09 March 2011, Revision 1 dated 22 June 2012, Revision 2 dated 16 November 2012, Revision 3 dated 15 January 2014, Revision 4 dated 19 February 2016, Revision 5 dated 20 January 2017, Revision 6 dated 07 November 2018 and Revision 7 dated 06 May 2020.

CFMI CFM56-7B S/B 72-0879 Revision 1 dated 12 April 2012, Revision 2 dated 15 July 2013, Revision 3 dated 15 January 2014, Revision 4 dated 07 September 2015, Revision 5 dated 20 January 2017, Revision 6 dated 01 March 2018 and Revision 7 dated 10 February 2021.



CFMI CFM56-7B S/B 72-1071 original issue dated 03 December 2021.

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. The original issue of this AD was posted on 29 June 2020 as PAD 20-100 for consultation until 27 July 2020, and republished as PAD 20-100R1 on 19 October 2020 for additional consultation until 02 November 2020. The Comment Response Documents can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
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](#). 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: CFM International S.A., Customer Support Centre, Telephone: +33 1 64 14 88 66, Fax: +33 1 64 79 85 55, E-mail: [cfm.csc@safrangroup.com](mailto:cfm.csc@safrangroup.com),

or

CFM Inc. Aviation Operations Centre, Telephone: +1 513-552-3272, or +1 877-432-3272, Fax: +1 877-432-3329, E-mail: [geae.aoc@ge.com](mailto:geae.aoc@ge.com), or [aviation.fleetsupport@ge.com](mailto:aviation.fleetsupport@ge.com).

