



適航指令發布單 Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2018-11-010 緊急	發布日期 Date issued	2018/11/20
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	AW169 helicopters, all serial numbers (s/n); and AW189 helicopters, all s/n.		
主旨摘要	Tail Rotor - Tail Rotor Flight Control System - Inspection		
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 <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> FAA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> Brazil <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC </div> <div> <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 _____ </div> </div>		
	設計國 AD 編號 Original AD number	2018-0250-E	
	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 64. This AD supersedes EASA AD 2018-0241-E(CAA-2018-11-002 緊急) dated 07 November 2018. Ref. Publications: Leonardo S.p.A. Emergency ASB 169-120 original issue dated 05 November 2018. and Leonardo S.p.A. Emergency ASB 189-213 original issue dated 06 November 2018. and Leonardo AW169 AMP DM 69-A-64-31-00-00A-31AB-A. and Leonardo AW189 AMP DM 89-A-64-31-00-00A-31AA-A.		
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)2349-6331~3, Fax：(02)2545-8464, e-mail： adcaa@mail.caa.gov.tw 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)2349-6331~3, Fax：(02)2545-8464, e-mail： adcaa@mail.caa.gov.tw			



Emergency Airworthiness Directive

AD No.: 2018-0250-E

Issued: 19 November 2018

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, 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 (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

LEONARDO S.p.A.

Type/Model designation(s):

AW169 and AW189 helicopters

Effective Date: 21 November 2018

TCDS Number(s): EASA.R.509, EASA.R.510

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2018-0241-E dated 07 November 2018.

ATA 64 – Tail Rotor – Tail Rotor Flight Control System – Inspection

Manufacturer(s):

Leonardo S.p.A. Helicopters, formerly Finmeccanica S.p.A., AgustaWestland S.p.A.

Applicability:

AW169 helicopters, all serial numbers (s/n); and
AW189 helicopters, all s/n.

Definitions:

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

The applicable ASB: Leonardo Emergency Alert Service Bulletin (ASB) 169-120 and ASB 189-213, as applicable.

The applicable DM: Leonardo AW169 Aircraft Maintenance Publication (AMP) Data Module (DM) 69-A-64-31-00-00A-31AB-A or AW189 AMP DM 89-A-64-31-00-00A-31AA-A, as applicable.

Reason:

An accident occurred on an AW169 helicopter, the root cause of which has not been identified and the technical investigation is still ongoing. While the helicopter was on a take-off phase at low forward speed, a loss of yaw control has been observed.



As a precautionary measure, Leonardo issued ASB 169-120 for AW169 helicopters to provide inspection instructions to check correct installation of the tail rotor (TR) servo-actuator and, subsequently, ASB 189-213 with the same instructions for AW189 helicopters, since these have a TR flight control system of similar design to AW169 helicopters.

The incorrect installation of the TR servo-actuator, if not detected and corrected, depending on the flight condition, could possibly result in loss of control of the helicopter.

EASA issued AD 2018-0241-E to require a one-time visual inspection of the TR servo-actuator installation and, depending on findings, accomplishment of applicable corrective action(s). This AD also required reporting of inspection results to Leonardo.

Since that AD was issued, EASA decided to require an inspection of the TR duplex bearing, as additional precautionary measure.

For the reason described above, this AD retains the requirements of EASA AD 2018-0241-E, which is superseded, and requires an inspection of the TR duplex bearing and, depending on findings, accomplishment of applicable corrective action(s).

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

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

Required as indicated, unless accomplished previously:

Restatement of the requirements of EASA AD 2018-0241-E:

Inspection:

- (1) Within 5 flight hours or 24 hours, whichever occurs first after 09 November 2018 [the effective date of EASA AD 2018-0241-E], visually inspect the TR servo-actuator installation in accordance with the instructions of the applicable ASB.

Corrective Action(s):

- (2) If, during the inspection as required by paragraph (1) of this AD, any damage or other finding is identified, before next flight, contact Leonardo for approved instructions and accomplish those instructions accordingly.
- (3) If, during the inspection as required by paragraph (1) of this AD, no damage or other finding is identified, or following corrective action(s) as required by paragraph (2) of this AD, as applicable, before next flight, apply a paint mark on the nut from the rod end to the hinge bracket element in accordance with the instructions of the applicable ASB.

Reporting:

- (4) Within 7 days after the inspection as required by paragraph (1) of this AD, where no damage or other finding is identified, report the inspection results to Leonardo.



New requirements of this AD:**Inspection:**

- (5) Before next flight after the effective date of this AD, inspect the TR duplex bearing. This can be accomplished using the instructions of the applicable DM.

Corrective Action(s):

- (6) If, during the inspection as required by paragraph (5) of this AD, any finding as identified in the applicable DM is detected, before next flight, contact Leonardo for approved instructions and accomplish those instructions accordingly.

Reporting:

- (7) Within 7 days after the inspection as required by paragraph (5) of this AD, where no finding is detected, as identified in the applicable DM, report the inspection results to Leonardo.

Ref. Publications:

Leonardo S.p.A. Emergency ASB 169-120 original issue dated 05 November 2018.

Leonardo S.p.A. Emergency ASB 189-213 original issue dated 06 November 2018.

Leonardo AW169 AMP DM 69-A-64-31-00-00A-31AB-A.

Leonardo AW189 AMP DM 89-A-64-31-00-00A-31AA-A.

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 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](#).
5. For any question concerning the technical content of the requirements in this AD, please contact: Leonardo S.p.A. Helicopters, Customer Support & Services, Product Support Engineering & Licenses DPT, Via Giovanni Agusta 520, 21017 Cascina Costa di Samarate (VA) – Italy, Telephone: +39 0331 255036, Fax: +39 0331 225988, E-mail: PSE_AW169.MBX.AW@leonardocompany.com.

