

 適航指令發布單 Airworthiness Directive Issuance Form			
民航局 AD 編號 AD number	CAA-2015-12-006	發布日期 Date issued	2015/12/28
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Airbus A350-941 aeroplanes, all serial numbers.		
主旨摘要	Flight Controls - Aileron Electro-Hydrostatic Actuator - 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 type="checkbox"/> Germany LBA <input checked="" type="checkbox"/> EASA <input type="checkbox"/> CAA-NL <input type="checkbox"/> Brazil <input type="checkbox"/> UK CAA <input type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> Japan CAB <input type="checkbox"/> DGAC <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____		
	設計國 AD 編號 Original AD number	2015-0241	
	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 27. Ref. Publications: Airbus AOT A27P007-15-00 dated 15 December 2015.		
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			



Airworthiness Directive

AD No.: 2015-0241

Issued: 21 December 2015

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 S.A.S.

Type/Model designation(s):

A350 aeroplanes

Effective Date: 28 December 2015

TCDS Number(s): EASA.A.151

Foreign AD: Not applicable

Supersedure: None

ATA 27 – Flight Controls – Aileron Electro-Hydrostatic Actuator – Inspection / Replacement

Manufacturer(s):

Airbus

Applicability:

Airbus A350-941 aeroplanes, all serial numbers.

Reason:

Several on-ground failures were reported on A350 aeroplanes of inboard aileron electro-hydrostatic actuator (EHA), identified by Part Number (P/N) CA67001-017. Concurrent with these failures, a Dispatch Message (DM) "F/CTL INR AILERON ELEC ACTUATOR" was displayed.

Further analysis and testing by Airbus determined that in such cases the switch from damping to active mode did not occur, preventing the activation of the EHA. This failure corresponds to a scenario called "spurious damping" and can be detected only when the EHA is activated.

As a consequence, the EHA will not be able to take over in case of adjacent servo control failure or yellow hydraulic failure. This condition, if not detected and corrected, and combined with other



failures could result in loss of control of inboard aileron potentially resulting in inability to ensure sufficient control on the roll axis of the aeroplane.

Airbus issued Alert Operators Transmission (AOT) A27P007-15-00 to provide post-flight EHA activation instructions.

For the reasons described above, this AD requires repetitive post-flight checks (activation) of each inboard aileron EHA and, in case of failure, replacement of the affected EHA with a serviceable one.

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

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

- (1) Within 14 days after the effective date of this AD, and, thereafter, during each flight day, but not exceeding 2 flight cycles, accomplish a post-flight activation procedure on each inboard aileron EHA P/N CA67001-017 or CA67001-019, as applicable, in accordance with the instructions of Airbus AOT A27P007-15-00.
- (2) If, during any EHA activation as required by paragraph (1) of this AD, the message “F/CTL INR AILERON ELEC ACTUATOR” is triggered, before next flight, accomplish the troubleshooting procedure on the affected EHA in accordance with the instructions of Airbus AOT A27P007-15-00.
- (3) If, following troubleshooting as required by paragraph (2) of this AD, the failure remains, before next flight, replace the affected EHA with a serviceable one.
- (4) Replacement of an EHA on an aeroplane, as required by paragraph (3) of this AD, does not constitute terminating action for the repetitive actions as required by paragraph (1) of this AD for that aeroplane.

Ref. Publications:

Airbus AOT A27P007-15-00 dated 15 December 2015.

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. 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.
4. For any question concerning the technical content of the requirements in this AD, please contact continued-airworthiness.a350@airbus.com.

