



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2021-03-003	發布日期 Date issued	2021/3/10
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Airbus A350-941 and A350-1041 aeroplanes, all manufacturer serial numbers, except aeroplanes <input type="checkbox"/> that have embodied Airbus modification (mod) 116544 in production.		
主旨摘要	Indicating / Recording Systems - Flight Warning System - Modification - Aircraft Flight Manual - Ram Air Turbine Performance - Amendment		
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 style="width: 48%;"> <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 style="width: 48%;"> <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	2021-0061	
	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 <input type="checkbox"/> date as) : _____ b. 執行時限另訂為(Re-specify the compliance <input type="checkbox"/> time or period as) : _____ <input type="checkbox"/> 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do <input type="checkbox"/> 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 31. Ref. Publications: Airbus A350 AFM TR 126 issue 1, EASA approval date 15 December 2020. and Airbus A350 AFM TR 127 issue 1, EASA approval date 15 December 2020. and Airbus SB A350-31-P040 original issue dated 12 January 2021.		
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： <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)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



## Airworthiness Directive

**AD No.:** 2021-0061

**Issued:** 05 March 2021

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, 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:**

AIRBUS

**Type/Model designation(s):**

A350 aeroplanes

**Effective Date:** 19 March 2021

**TCDS Number(s):** EASA.A.151

**Foreign AD:** Not applicable

**Supersedure:** None

### ATA 31 – Indicating / Recording Systems – Flight Warning System – Modification

### ATA – Aircraft Flight Manual – Ram Air Turbine Performance – Amendment

**Manufacturer(s):**

Airbus

**Applicability:**

Airbus A350-941 and A350-1041 aeroplanes, all manufacturer serial numbers, except aeroplanes that have embodied Airbus modification (mod) 116544 in production.

**Definitions:**

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

**The SB:** Airbus Service Bulletin (SB) A350-31-P040.

**The applicable AFM TR:** Airbus A350 Airplane Flight Manual (AFM) Temporary Revision (TR) 126 Issue 1 or AFM TR 127 issue 1, as applicable to aeroplane model.



**Reason:**

During flight tests, it has been identified that the opening of the ram air outlet flaps causes a disturbance of the air flow around the ram air turbine (RAT) when the landing gear is extended. The consequence is a non-negligible effect on the overall performance of the RAT in case of total engine flame out (TEFO) or electrical emergency configuration, combined with auxiliary power unit (APU) running.

This condition, if not corrected, could lead to partial or total loss of RAT electrical power generation, when RAT is deployed in an emergency condition with landing gear extended, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB, providing instructions to install Airbus temporary quick change (ATQC) V3 for flight warning system (FWS) software (SW) standard (STD) 6/2.0 to improve the electronic centralized aircraft monitoring procedure in case of TEFO or electrical emergency configuration. In addition, Airbus published the applicable AFM TR to mitigate RAT performance impacts in TEFO when the APU bleed is ON.

For the reasons described above, this AD requires incorporation of the applicable AFM TR into the applicable AFM and installation of ATQC V3 for FWS SW STD 6/2.0.

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

Required as indicated, unless accomplished previously:

**AFM Amendment:**

- (1) Within 90 days after the effective date of this AD, amend the applicable AFM by incorporating the applicable AFM TR, inform all flight crews, and thereafter, operate the aeroplane accordingly.

Note 1: In case any discrepancy is identified between procedures displayed on the Electronic Centralized Aircraft Monitoring (ECAM) and procedures stated in the applicable AFM, the AFM procedures prevail.

- (2) Amending the applicable AFM of an aeroplane by incorporating a later AFM revision, which includes the same content as the applicable AFM TR, is acceptable to comply with the requirements of paragraph (1) of this AD for that aeroplane.

**Modification:**

- (3) Within 8 months after the effective date of this AD, modify the aeroplane by installing ATQC V3 for FWS SW STD 6/2.0 in accordance with the instructions of the SB.

**Ref. Publications:**

Airbus A350 AFM TR 126 issue 1, EASA approval date 15 December 2020.

Airbus A350 AFM TR 127 issue 1, EASA approval date 15 December 2020.

Airbus SB A350-31-P040 original issue dated 12 January 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. This AD was posted on 02 February 2021 as PAD 21-011 for consultation until 02 March 2021. The Comment Response Document 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: AIRBUS XWB, E-mail: [continued-airworthiness.a350@airbus.com](mailto:continued-airworthiness.a350@airbus.com).

