



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2022-08-004	發布日期 Date issued	2022/8/12
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 (MSN).		
主旨摘要 Subject	Fuel - Engine / Auxiliary Power Unit Low Pressure Shut-Off Valves and Auxiliary Power Unit Isolation Valve - Inspection / Replacement		
<div style="text-align: center;">民航局 CAA</div> <input type="checkbox"/> 本國產品 Native product <input type="checkbox"/> 其他個案 Other	<div style="text-align: center;">設計國民航主管機構 Original Authority</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <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: 45%;"> <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	2022-0157	
	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 28. Ref. Publications: Airbus SB A350-28-P013 Revision 01 dated 22 June 2022.		
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： 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)2349-6330 / 6332, Fax： (02)2545-8464, e-mail： adcaa@mail.caa.gov.tw			



Airworthiness Directive

AD No.: 2022-0157

Issued: 04 August 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, 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] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

Design Approval Holder's Name:

AIRBUS S.A.S

Type/Model designation(s):

A350 aeroplanes

Effective Date: 18 August 2022

TCDS Number(s): EASA.A.151

Foreign AD: Not applicable

Supersedure: None

ATA 28 – Fuel – Engine / Auxiliary Power Unit Low Pressure Shut-Off Valves and Auxiliary Power Unit Isolation Valve – Inspection / Replacement

Manufacturer(s):

Airbus

Applicability:

Airbus A350-941 and A350-1041 aeroplanes, all manufacturer serial numbers (MSN).

Definitions:

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

The SB: Airbus Service Bulletin (SB) A350-28-P013 Revision 01.

Affected APU LP SOV: An Auxiliary Power Unit (APU) low pressure (LP) shut-off valve (SOV) having Part Number (P/N) 2080022-101 or P/N 2080022-102 and having a serial number (s/n) as listed in the SB.

Affected engine LP SOV: An engine LP SOV having P/N 2140083-101 and having an s/n as listed in the SB.

Affected APU ISOV: An APU isolation shut-off valve (ISOV) having P/N 2080023-102 and having an s/n as listed in the SB.



Serviceable APU LP SOV: Any APU LP SOV, eligible for installation, that is not an affected APU LP SOV.

Serviceable engine LP SOV: Any engine LP SOV, eligible for installation, that is not an affected engine LP SOV.

Serviceable APU ISOV: Any APU ISOV, eligible for installation, that is not an affected APU ISOV.

Reason:

Reports have been received from the manufacturer of the APU, the engine LP SOV and the APU ISOV of potential foreign object debris (FOD) contamination of the Thermal Relief Valve (TRV), which was generated by a quality escape during the manufacturing assembly process. Results of the technical investigation identified that FOD in the TRV may lead to a fuel leakage through the valve.

This condition, if not detected and corrected, could, in case of an APU or engine fire, contribute to an uncontrolled fire, possibly resulting in loss of control of the aeroplane.

To address this potential unsafe condition, Airbus issued the SB to provide instructions for inspection of the engine LP SOV and APU ISOV, and replacement of the APU LP SOV, engine LP SOV and APU ISOV.

For the reasons described above, this AD requires replacement of affected APU LP SOV, a special detailed inspection (SDI) of affected engine LP SOV and APU ISOV to detect fuel leaks through the valve and, depending on findings, replacement with a serviceable engine LP SOV or APU ISOV.

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

Required as indicated, unless accomplished previously:

APU LP SOV Replacement:

- (1) Within 78 months after the effective date of this AD, replace each affected APU LP SOV with a serviceable APU LP SOV in accordance with the instructions of the SB.

Engine LP SOV and APU ISOV Inspection:

- (2) Within 78 months after the effective date of this AD, accomplish an SDI of each affected engine LP SOV and each affected APU ISOV in accordance with the instructions of the SB.

Corrective Action:

- (3) If, during the SDI as required by paragraph (2) of this AD, any discrepancy is detected, as defined in the SB, on an affected engine LP SOV and/or on the affected APU ISOV, as applicable, before next flight, replace that affected engine LP SOV and/or affected APU ISOV, as applicable, with a serviceable engine LP SOV or APU ISOV in accordance with the instructions of the SB.

Parts Installation:

- (4) From the effective date of this AD, do not install on any aeroplane an affected APU LP SOV, an affected engine LP SOV, or an affected APU ISOV.



Ref. Publications:

Airbus SB A350-28-P013 Revision 01 dated 22 June 2022.

The use of later approved revisions of the above-mentioned 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 July 2022 as PAD 22-086 for consultation until 29 July 2022. 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.
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 S.A.S. A350 XWB (1IAK), E-mail: continued-airworthiness.a350@airbus.com.

