



適航指令發布單

Airworthiness Directive Issuance Form

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|--|---|---------------------|-----------|
| 民航局 AD 編號 AD number | CAA-2022-11-001 | 發布日期 Date issued | 2022/11/8 |
| 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 | Hydraulic Power – Nose Landing Gear Pressure Return Lines – 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: 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 | 2022-0217 | |
| | 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 29. Ref. Publications: Airbus SB A350-29-P020 Revision 01 dated 28 July 2022, and Airbus SB A350-29-P021 Revision 01 dated 13 September 2022, and Airbus SB A350-29-P022 Revision 01 dated 15 September 2022, and Airbus SB A350-29-P023 Revision 01 dated 15 September 2022, and Airbus SB A350-29-P038 original issue dated 16 September 2022, and Airbus SB A350-29-P039 original issue dated 16 September 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.: 2022-0217

Issued: 04 November 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:

AIRBUS S.A.S.

Type/Model designation(s):

A350 aeroplanes

Effective Date: 18 November 2022

TCDS Number(s): EASA.A.151

Foreign AD: Not applicable

Supersedure: None

ATA 29 – Hydraulic Power – Nose Landing Gear Pressure Return Lines – Replacement

Manufacturer(s):

Airbus S.A.S.

Applicability:

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

Definitions:

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

Aeroplane date of manufacture: The date of transfer of title (ownership) of the aeroplane upon delivery by Airbus to the first operator, which is referenced in Airbus documentation.

The SBs: Airbus Service Bulletins (SB), as listed in Table 1 of this AD.



Table 1 – The SBs

| Aeroplane Model | SB Number | Revision |
|-----------------|--------------|----------------|
| A350-941 | A350-29-P020 | 01 |
| | A350-29-P021 | 01 |
| | A350-29-P038 | original issue |
| A350-1041 | A350-29-P022 | 01 |
| | A350-29-P023 | 01 |
| | A350-29-P039 | original issue |

Affected part: Any low pressure (LP) hydraulic pipe, identified as ‘OLD PART’ and listed by part number (P/N) in one of the SBs, and installed on an MSN as listed in the same SB at the aeroplane date of manufacture.

Groups: Group 1 aeroplanes are those having MSN as listed in the SBs.
Group 2 aeroplanes are those that are not Group 1.

Reason:

The manufacturer of LP hydraulic pipes of nose landing gear (NLG) return line has reported to Airbus a non-full life clearance of the pipes caused by two quality escapes: after alodine process application on aluminium pipes, black spots and stains on inner and outside diameter caused by corrosion pitting have been discovered, and pipes have been identified with an average ovality value which is above the admissible value.

This condition, if not corrected, could lead to a premature rupture in the yellow hydraulic line which, in case of additional independent system failures, could result in reduced aeroplane controllability.

To address this potential unsafe condition, Airbus issued the SBs, as defined in this AD, to provide instructions for replacement of each affected part.

For the reasons described above, this AD requires the replacement of the affected parts.

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

Required as indicated, unless accomplished previously:

Replacement:

- (1) For Group 1 aeroplanes: Within the compliance time as specified in Table 2 of this AD, as applicable, remove from service each affected part by replacing it with the corresponding serviceable part identified as the ‘NEW PART’ in the SBs, as applicable, in accordance with the instructions of the SBs, as applicable.



Table 2 – Compliance Time

| Aeroplane Model | Affected Part listed in the SBs | Compliance Time (from aeroplane date of manufacture) |
|------------------------|--|--|
| A350-941 | A350-29-P020 | 6 years |
| | A350-29-P021 | 26 583 flight cycles (FC) |
| | A350-29-P038 | 12 years |
| A350-1041 | A350-29-P022 | 6 years |
| | A350-29-P023 | 22 364 FC |
| | A350-29-P039 | 12 years |

Part(s) Installation:

(2) For Group 1 and Group 2 aeroplanes: From the effective date of this AD, do not install an affected part on any aeroplane (see Note 1 of this AD).

Note 1: Removal of an affected part from an aeroplane and subsequent reinstallation of that part on the same aeroplane, accomplished during a single maintenance visit, is not considered as 'install' as specified in paragraph (2) of this AD.

Ref. Publications:

Airbus SB A350-29-P020 Revision 01 dated 28 July 2022.

Airbus SB A350-29-P021 Revision 01 dated 13 September 2022.

Airbus SB A350-29-P022 Revision 01 dated 15 September 2022.

Airbus SB A350-29-P023 Revision 01 dated 15 September 2022.

Airbus SB A350-29-P038 original issue dated 16 September 2022.

Airbus SB A350-29-P039 original issue dated 16 September 2022.

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 10 October 2022 as PAD 22-132 for consultation until 24 October 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 A350 XWB (1IAK), E-mail: continued-airworthiness.a350@airbus.com.

