

Airworthiness Directive

AD No.: 2023-0056

Issued: 16 March 2023

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 the 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 all applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of this 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):

A330 and A340 aeroplanes

Effective Date: 30 March 2023

TCDS Numbers: EASA.A.004, EASA.A.015

Foreign AD: Not applicable

Supersedure: None

ATA 49 – Airborne Auxiliary Power – Auxiliary Power Unit Scroll Housing Assembly – Replacement

Manufacturer(s):

Airbus, formerly Airbus Industrie

Applicability:

Airbus A330-201, A330-202, A330-203, A330-223, A330-223F, A330-243, A330-243F, A330-301, A330-302, A330-303, A330-303X, A330-303X2, A330-323, A330-341, A330-342, A330-343, A330-841, A330-941 and A330-743L aeroplanes, all manufacturer serial numbers (MSN); and

Airbus A340-211, A340-212, A340-311, A340-312 and A340-313 aeroplanes, all MSN.

Definitions:

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

The SB: Honeywell Service Bulletin (SB) 5053-181-49-7895.

Affected part: Auxiliary Power Unit (APU) Scroll Housing Assemblies, having Part Number (P/N) 5053-181-001-501 or P/N 0331207990.

SR-1 Affected Part: An affected part marked with 'SR-1' next to its P/N marking.



Serviceable part: APU Scroll Housing Assemblies, having P/N 5053-181-002-501 or P/N 5053-881-002-501.

Affected APU: Honeywell GTCP331-350[C] APUs, having serial number up to P-904 inclusive, that have an affected part installed.

Serviceable APU: Any Honeywell GTCP331-350[C] APU which is not an affected part. The SB provides instructions to modify an affected APU into a serviceable APU.

Groups: Group 1 aeroplanes are those that have an affected part installed. Group 2 aeroplanes are those that do not have an affected part installed.

Reason:

Occurrences have been reported where cracks were found in the scroll housing assembly of GTCP331-350 APUs.

This condition, if not corrected, could lead to hot air leakage, with consequent damage to the APU compartment and loss of the APU doors, possibly resulting in damage to the aeroplane.

To address this potential unsafe condition, Honeywell issued the SB, providing instructions to replace the affected part with a serviceable part, as defined in this AD.

For the reason described above, this AD requires replacement of affected APU with serviceable APU, and prohibits (re)installation of affected APU.

After the publication of the Proposal to issue this AD, it has been determined that additional A330 models, not included in the applicability of the AD, are affected. Additional consultation has not been considered in the interest of affected operators.

Required Action(s) and Compliance Times:

Required as indicated, unless accomplished previously:

Modification:

- (1) For Group 1 aeroplanes: Within 36 months after the effective date of this AD, replace the affected APU with a serviceable APU. This can be accomplished in accordance with the instructions of the applicable Airbus aircraft maintenance manual (AMM).
- (2) Re-identification of an SR-1 affected part on an aeroplane in accordance with the instructions of the SB in an acceptable method to comply with the requirements of paragraph (1) of this AD for that aeroplane.

Part Installation:

- (3) Do not install an affected APU on any aeroplane, as required by paragraph (3.1) or (3.2) of this AD, as applicable.
 - (3.1) For Group 1 aeroplanes: After modification of the aeroplane as required by paragraph (1) of this AD, or as specified in paragraph (2) of this AD, as applicable.



(3.2) For Group 2 aeroplanes: From the effective date of this AD.

Ref. Publications:

Honeywell SB 5053-181-49-7895 original issue dated 21 July 2006.

Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 23 January 2023 as PAD 23-008 for consultation until 30 February 2023. 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 – 1IAL (Airworthiness Office). E-mail: airworthiness.A330-A340@airbus.com.

Superseded

