

Airworthiness Directive

AD No.: 2023-0158

Issued: 02 August 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 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):

A330 and A340 aeroplanes

Effective Date: 16 August 2023

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

Foreign AD: Not applicable

Supersedure: This AD supersedes EASA AD 2023-0056 dated 16 March 2023.

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, A330-321, A330-322, 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, A340-213, 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, all serial numbers up to ()904 inclusive, that have an affected part installed. For the purpose of this AD, any letter included in the APU s/n shall be disregarded.

Serviceable APU: Any Honeywell GTCP331-350[C] APU which is not an affected APU. 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 certain Honeywell GTCP331-350[C] 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, identifying the affected APU and providing instructions to replace the affected part with a serviceable part, as defined in this AD. Consequently, EASA issued AD 2023-0056 to require replacement of each affected APU with a serviceable APU, and to prohibit (re)installation of affected APU.

Since that AD was issued, it has been determined that a letter, which is part of an APU's serial number, is only used to identify the manufacturing facility of the APU, and has no meaning in relation to the AD required actions.

For the reason described above, this AD retains the requirements of EASA AD 2023-0056, which is superseded, but provides an updated definition of 'affected APU'.

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

Required as indicated, unless accomplished previously:

Modification:

- (1) For Group 1 aeroplanes: Within 36 months after 30 March 2023 [the effective date of EASA AD 2023-0056], 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 is 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. 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. 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 – IIAL (Airworthiness Office), E-mail: airworthiness.A330-A340@airbus.com.

