



[4910-13-P]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2019-0439; Product Identifier 2019-NM-037-AD; Amendment 39-19779; AD 2019-21-13]

RIN 2120-AA64

Airworthiness Directives; Airbus SAS Airplanes

AGENCY: Federal Aviation Administration (FAA), Department of Transportation (DOT).

ACTION: Final rule.

SUMMARY: The FAA is superseding Airworthiness Directive (AD) 2012-22-18, which applied to all Airbus SAS Model A330-243, -243F, -341, -342, and -343 airplanes.

AD 2012-22-18 required repetitive inspections of the three inner acoustic panels of both engine air inlet (intake) cowls to detect disbonding, and corrective actions, if necessary.

This AD continues to require all actions required by AD 2012-22-18, with a reduced initial compliance time and reduced repetitive inspection intervals. These actions are specified in a European Union Aviation Safety Agency (EASA) AD, which is incorporated by reference. This AD was prompted by additional reports of engine air inlet cowl collapse. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: For the material incorporated by reference (IBR) in this AD, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 89990 1000; email ADs@easa.europa.eu; Internet www.easa.europa.eu. You may find this IBR material on the EASA website at <https://ad.easa.europa.eu>. You may view this referenced service information at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. It is also available in the AD docket on the Internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0439.

Examining the AD Docket

You may examine the AD docket on the Internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0439; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this final rule, the regulatory evaluation, any comments received, and other information. The address for Docket Operations is U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

FOR FURTHER INFORMATION CONTACT: Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3229.

SUPPLEMENTARY INFORMATION:

Discussion

The EASA, which is the Technical Agent for the Member States of the European Union, has issued EASA AD 2019-0042, dated February 27, 2019 (“EASA AD 2019-0042”) (also referred to as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for all Airbus SAS Model A330-243, -243F, -341, -342, and -343 airplanes, certificated in any category.

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2012-22-18, Amendment 39-17256 (77 FR 70366, November 26, 2012) (“AD 2012-22-18”). AD 2012-22-18 applied to all Airbus SAS Model A330-243, -243F, -341, -342, and -343 airplanes. The NPRM published in the Federal Register on June 19, 2019 (84 FR 28431). The NPRM was prompted by additional reports of engine air inlet cowl collapse since AD 2012-22-18 was issued. The NPRM proposed to continue to require repetitive inspections of the three inner acoustic panels of both engine air inlet cowls to detect disbonding, and corrective actions if necessary, with a reduced initial compliance time and reduced repetitive inspection intervals. The NPRM also proposed an optional modification that would be terminating action for the repetitive inspections. The FAA is issuing this AD to address disbonding, which could result in detachment of the engine air inlet cowl from the engine, leading to ingestion of parts,

which could cause failure of the engine, and possible injury to persons on the ground. See the MCAI for additional background information.

Comments

The FAA gave the public the opportunity to participate in developing this final rule. The following presents the comments received on the NPRM and the FAA's response to each comment.

Support for the NPRM

Patrick Imperatrice indicated his support for the NPRM.

Request to Allow Alternative Tooling

American Airlines (AAL) requested that operators be allowed to use aerospace industry standard tap check tools for the inspection of the engine air inlet cowl acoustic panels instead of the tap check tools specified in Bombardier Service Bulletin RB211-NAC-71-018, Revision 3, dated December 5, 2018 ("Bombardier Service Bulletin RB211-NAC-71-018, Revision 3"). The commenter stated that the tooling paragraph in Bombardier Service Bulletin RB211-NAC-71-018, Revision 3, unnecessarily restricts operators' choices of tap tools with respect to industry standard practices, and places an undue burden on operators with regards to maintaining compliance procedures. The commenter noted that the previous revision level of Bombardier Service Bulletin RB211-NAC-71-018 provided a more general description of the tap tool and did not prohibit the use of an aluminum tap tool. The commenter noted that it has successfully detected disbonding using a variety of standard industry tap tools made of corrosion resistant steel (CRES), mild steel, brass, and aluminum on similar

nacelle component thin-skinned carbon fiber/honeycomb sandwich panels, with and without wire mesh on them, without any negative effects, such as galvanic corrosion. The commenter stated that it considers tools similar to or as described in aviation industry manuals, made from any of the typical listed materials, to have an equivalent level of safety and performance as the tool specified in Bombardier Service Bulletin RB211-NAC-71-018, Revision 3. The commenter also advised that, although not a concern from its experience, any aluminum tool would be contacting the stainless steel wire mesh on the carbon fiber panel surface except for localized areas of missing wire mesh.

The FAA acknowledges the commenter's observation that Bombardier Service Bulletin RB211-NAC-71-018, Revision 3, specifies that the tap tool can be purchased or manufactured, should be made of mild steel or brass rod, and that the use of an aluminum tap tool is prohibited.

However, the FAA does not agree with the commenter's request to revise this AD to allow operators to use any aviation industry standard tap check tool, including those made of aluminum, for the inspection of the engine air inlet cowl acoustic panels. The FAA received additional information from Bombardier stating that Bombardier performed numerous tests on acoustic panels using tap tools manufactured from various materials. Bombardier concluded that a better tonal response was received for both disbond and non-disbond areas when a heavier tap tool made from steel or brass material was used, which resulted in more reliable detection of panel disbond.

This AD refers to EASA AD 2019-0042 for a description of the procedures for repetitive inspections of the engine air inlet cowls having a certain part number, repair or replacement of any engine air inlet cowl that has disbond, and an optional modification that terminated the need for the repetitive inspections. In turn, EASA AD 2019-0042 refers to Airbus Service Bulletin A330-71-3024, Revision 04, dated December 17, 2018 (“Airbus Service Bulletin A330-71-3024, Revision 04”), for information regarding the inspection procedures for the engine air inlet cowl. Paragraphs 3.C. and 3.D. of the Accomplishment Instructions of Airbus Service Bulletin A330-71-3024, Revision 04, are considered “required for compliance” (RC) and must be done to comply with the requirements of this AD.

Paragraph 3.C. of Airbus Service Bulletin A330-71-3024, Revision 04, states that the tap test must be done using the procedures in Rolls-Royce Service Bulletin No. RB.211-71-AG419, Revision 3, dated December 7, 2018 (“Rolls-Royce Service Bulletin No. RB.211-71-AG419, Revision 3”). Rolls-Royce Service Bulletin No. RB.211-71-AG419, Revision 3, refers to Bombardier Service Bulletin RB211-NAC-71-018, Revision 3, for the inspection procedures.

Operators may request to use tap tools other than those identified in Bombardier Service Bulletin RB211-NAC-71-018, Revision 3, by utilizing the alternative methods of compliance (AMOCs) provision provided in paragraph (j)(1) of this AD and submitting sufficient data to substantiate that the alternative tools would provide an acceptable level of safety. The FAA has not revised this AD in regard to this issue.

Conclusion

The FAA reviewed the relevant data, considered the comments received, and determined that air safety and the public interest require adopting this final rule as proposed, except for minor editorial changes. The FAA has determined that these minor changes:

- Are consistent with the intent that was proposed in the NPRM for addressing the unsafe condition; and
- Do not add any additional burden upon the public than was already proposed.

Related IBR Material Under 1 CFR part 51

EASA AD 2019-0042 describes procedures for repetitive inspections of engine air inlet cowls having certain part numbers, repair or replacement of any engine air inlet cowl that has disbonding, and an optional modification that terminates the need for the repetitive inspections. This material is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

Costs of Compliance

The FAA estimates that this AD affects 47 airplanes of U.S. registry. The FAA estimates the following costs to comply with this AD:

Estimated costs for required actions

Action	Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Retained actions from AD 2012-22-18	Up to 20 work-hours X \$85 per hour = Up to \$1,700	\$0	\$1,700	Up to \$79,900

Estimated costs for optional actions

Labor cost	Parts cost	Cost per product
Up to 154 work hours X \$85 per hour = Up to \$13,090	*	Up to \$13,090 *

*The FAA has received no definitive data on the parts costs for the optional actions.

The FAA estimates the following costs to do any necessary on-condition action that would be required based on the results of any required actions. The FAA has no way of determining the number of aircraft that might need this on-condition action:

Estimated costs of on-condition actions

Labor cost	Parts cost	Cost per product
Up to 34 work-hours X \$85 per hour = Up to \$2,890	*	Up to \$2,890 *

*The FAA has received no definitive data on the parts costs for the on-condition actions.

The new requirements of this AD add no additional economic burden. However, the optional modification, if done, would result in additional costs as specified in the “Estimate costs for optional actions” table.

Authority for This Rulemaking

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator.

Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: "General requirements." Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

This AD is issued in accordance with authority delegated by the Executive Director, Aircraft Certification Service, as authorized by FAA Order 8000.51C. In accordance with that order, issuance of ADs is normally a function of the Compliance and Airworthiness Division, but during this transition period, the Executive Director has delegated the authority to issue ADs applicable to transport category airplanes and associated appliances to the Director of the System Oversight Division.

Regulatory Findings

This AD will not have federalism implications under Executive Order 13132. This AD will not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that this AD:

(1) Is not a "significant regulatory action" under Executive Order 12866,

(2) Will not affect intrastate aviation in Alaska, and

(3) Will not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by removing Airworthiness Directive (AD) 2012-22-18, Amendment 39-17256 (77 FR 70366, November 26, 2012), and adding the following new AD:

2019-21-13 Airbus SAS: Amendment 39-19779; Docket No. FAA-2019-0439; Product Identifier 2019-NM-037-AD.

(a) Effective Date

This AD is effective [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

This AD replaces 2012-22-18, Amendment 39-17256 (77 FR 70366, November 26, 2012) (“AD 2012-22-18”).

(c) Applicability

This AD applies to all Airbus SAS Model A330-243, -243F, -341, -342, and -343 airplanes, certificated in any category.

(d) Subject

Air Transport Association (ATA) of America Code 71, Powerplant.

(e) Reason

This AD was prompted by reports of extensive damage to engine air inlet (intake) cowls as a result of acoustic panel collapse and by additional reports of engine air inlet cowl collapse since AD 2012-22-18 was issued. The FAA is issuing this AD to address disbonding, which could result in detachment of the engine air inlet cowl from the engine, leading to ingestion of parts, which could cause failure of the engine, and possible injury to persons on the ground.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Requirements

Except as specified in paragraph (h) of this AD: Comply with all required actions and compliance times specified in, and in accordance with, European Union Aviation Safety Agency (EASA) AD 2019-0042, dated February 27, 2019 (“EASA AD 2019-0042”).

(h) Exceptions to EASA AD 2019-0042

(1) Where EASA AD 2019-0042 refers to its effective date, this AD requires using the effective date of this AD.

(2) The “Remarks” section of EASA AD 2019-0042 does not apply to this AD.

(i) No Reporting Requirement

Although the service information referenced in EASA AD 2019-0042 specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(j) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Section, Transport Standards Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the International Section, send it to the attention of the person identified in paragraph (k) of this AD. Information may be emailed to: 9-ANM-116-AMOC-REQUESTS@faa.gov. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method

approved by the Manager, International Section, Transport Standards Branch, FAA; or EASA; or Airbus SAS's EASA Design Organization Approval (DOA). If approved by the DOA, the approval must include the DOA-authorized signature.

(3) *Required for Compliance (RC)*: For any service information referenced in EASA AD 2019-0042 that contains RC procedures and tests: Except as required by paragraph (j)(2) of this AD, RC procedures and tests must be done to comply with this AD; any procedures or tests that are not identified as RC are recommended. Those procedures and tests that are not identified as RC may be deviated from using accepted methods in accordance with the operator's maintenance or inspection program without obtaining approval of an AMOC, provided the procedures and tests identified as RC can be done and the airplane can be put back in an airworthy condition. Any substitutions or changes to procedures or tests identified as RC require approval of an AMOC.

(k) Related Information

For more information about this AD, contact Vladimir Ulyanov, Aerospace Engineer, International Section, Transport Standards Branch, FAA, 2200 South 216th St., Des Moines, WA 98198; telephone and fax 206-231-3229.

(l) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(3) The following service information was approved for IBR on [INSERT DATE 35 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(i) European Union Aviation Safety Agency (EASA) AD 2019-0042, dated February 27, 2019.

(ii) [Reserved]

(4) For information about EASA AD 2019-0042, contact the EASA, Konrad-Adenauer-Ufer 3, 50668 Cologne, Germany; telephone +49 221 89990 6017; email ADs@easa.europa.eu; Internet www.easa.europa.eu. You may find this EASA AD on the EASA website at <https://ad.easa.europa.eu>.

(5) You may view this material at the FAA, Transport Standards Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195. This material may be found in the AD docket on the Internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0439.

(6) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued in Des Moines, Washington, on October 28, 2019.

Michael Kaszycki,
Acting Director,
System Oversight Division,
Aircraft Certification Service.

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