

Applicability: Model CL-600-2B19 (Regional Jet Series 100 & 440) airplanes, equipped with main fittings, part numbers (P/N) 601R85001-81 and 601R85001-82 (Messier Dowty Incorporated P/N 17064-105 and 17064-106), of the main landing gears (MLG); certificated in any category.

Compliance: Required as indicated, unless accomplished previously.

To detect and correct premature cracking of the main fittings of the MLGs, which could result in failure of the fittings and consequent collapse of the MLGs during landing, accomplish the following:

Note 1: Where this AD differs from the referenced service bulletin, the AD prevails.

Detailed Inspection of Main Fittings of the MLGs

(a) Before the accumulation of 2,500 total flight cycles on the MLGs, or within 250 flight cycles after the effective date of this AD, whichever occurs later, do a detailed inspection on the main fittings of the MLGs to detect discrepancies (*i.e.*, linear paint cracks or lack of paint (paint peeling), any other paint damage, adhesion, paint bulging, or corrosion), in accordance with Part A of the Accomplishment Instructions of Bombardier Alert Service Bulletin (ASB) A601R-32-088, dated February 20, 2003. Repeat the inspection thereafter at intervals not to exceed 100 flight cycles.

Note 2: For the purposes of this AD, a detailed inspection is defined as: "An intensive visual examination of a specific structural area, system, installation, or assembly to detect damage, failure, or irregularity. Available lighting is normally supplemented with a direct source of good lighting at intensity deemed appropriate by the inspector. Inspection aids such as mirror, magnifying lenses, etc., may be used. Surface cleaning and elaborate access procedures may be required."

Related Investigative/Corrective Actions

(b) If any discrepancy is detected during any inspection required by paragraph (a) of this AD, before further flight, do the related investigative/corrective actions in accordance with Part B or F of the Accomplishment Instructions of Bombardier ASB A601R-32-088, including Appendices A and C, dated February 20, 2003. If an eddy current inspection (a related investigative action specified in Part B) is used to confirm the detailed inspection findings, the next eddy current required by paragraph (c) of this AD must be conducted within 500 flight cycles after the eddy current inspection specified in this paragraph, and thereafter at intervals not to exceed 500 flight cycles.

Eddy Current Inspection of Main Fittings of the MLGs

(c) At the time specified in paragraph (a) of this AD, do an eddy current inspection on the main fittings of the MLGs to detect cracks in accordance with Part B of the Accomplishment Instructions of Bombardier ASB A601R-32-088, including Appendix A, dated February 20, 2003. Repeat the eddy current inspection thereafter at intervals not to exceed 500 flight cycles. If any crack is found, before further flight, replace the

affected main fittings of the MLGs with new or serviceable fittings in accordance with paragraph E.(5) of Part B of the Accomplishment Instructions of service bulletin.

Servicing of Shock Struts and Servicing If Necessary

(d) Before the accumulation of 2,500 total flight cycles on the MLGs, or within 500 flight cycles after the effective date of this AD, whichever occurs later, service the shock strut of the MLGs in accordance with Part C or D, as applicable, of the Accomplishment Instructions of Bombardier ASB A601R-32-088, including Appendix B, dated February 20, 2003.

Shock Strut Inspection

(e) Within 500 flight cycles after completing the servicing required by paragraph (d) of this AD, inspect the shock strut of the MLGs for nitrogen pressure, visible chrome dimension, and oil leakage in accordance with Part E of the Accomplishment Instructions of Bombardier ASB A601R-32-088, including Appendix B, dated February 20, 2003. Repeat the inspection thereafter at intervals not to exceed 500 flight cycles. If the nitrogen pressure and visible chrome dimensions are found outside the limits (the service bulletin refers to the airplane maintenance manual as the source of defined limits) and/or oil leakage is found, before further flight, service the affected shock strut of the MLGs in accordance with Part C or D, as applicable, of the Accomplishment Instructions of the service bulletin.

Reporting

(f) Submit a report of all findings (both positive and negative) after each inspection and servicing required by this AD to Bombardier Aerospace, In-Service Engineering, attention Jean Gauthier, fax (524) 855-7708, e-mail jean.gauthier@notes.canadair.ca, at the applicable time specified in paragraph (f)(1) or (f)(2) of this AD. Under the provisions of the Paperwork Reduction Act of 1980 (44 U.S.C. 3501 *et seq.*), the Office of Management and Budget (OMB) has approved the information collection requirements contained in this AD and has assigned OMB Control Number 2120-0056.

(1) If any inspection or servicing is done after the effective date of this AD: Submit the report within 30 days after the applicable inspection or servicing.

(2) If any inspection or servicing was accomplished before the effective date of this AD: Submit the report within 30 days after the effective date of this AD.

(g) Although the Accomplishment Instructions of the service bulletin referenced in this AD specifies to submit a comment sheet related to service bulletin quality and a sheet recording compliance to the airplane manufacturer bulletin, this AD does not include such a requirement.

Alternative Methods of Compliance

(h) In accordance with 14 CFR 39.19, the Manager, New York Aircraft Certification Office, FAA, is authorized to approve

alternative methods of compliance for this AD.

Note 3: The subject of this AD is addressed in Canadian airworthiness directive CF-2003-09, dated April 23, 2003.

Issued in Renton, Washington, on March 5, 2004.

Ali Bahrami,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2002-NM-301-AD]

RIN 2120-AA64

Airworthiness Directives; Aerospatiale Model ATR42-500 and ATR72-212A Series Airplanes

AGENCY: Federal Aviation Administration, DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: This document proposes the adoption of a new airworthiness directive (AD) that is applicable to certain Aerospatiale Model ATR42-500 and ATR72-212A series airplanes. This proposal would require repetitive inspections for cracking of the upper closing rib of the vertical fin, related investigative actions, and corrective actions if necessary. This action is necessary to prevent interference between the upper closing rib and the rudder, which could result in a rudder jam and consequent reduced controllability of the airplane. This action is intended to address the identified unsafe condition.

DATES: Comments must be received by April 16, 2004.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2002-NM-301-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056. Comments may be inspected at this location between 9 a.m. and 3 p.m., Monday through Friday, except Federal holidays. Comments may be submitted via fax to (425) 227-1232. Comments may also be sent via the Internet using the following address: 9-anm-nprmcomment@faa.gov. Comments sent via fax or the Internet must contain "Docket No. 2002-NM-301-AD" in the subject line and need not be submitted

in triplicate. Comments sent via the Internet as attached electronic files must be formatted in Microsoft Word 97 or 2000 or ASCII text.

The service information referenced in the proposed rule may be obtained from Aerospatiale, 316 Route de Bayonne, 31060 Toulouse, Cedex 03, France. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington.

FOR FURTHER INFORMATION CONTACT: Dan Rodina, Aerospace Engineer, International Branch, ANM-116, FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington 98055-4056; telephone (425) 227-2125; fax (425) 227-1149.

SUPPLEMENTARY INFORMATION:

Comments Invited

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications shall identify the Rules Docket number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the proposed rule. The proposals contained in this action may be changed in light of the comments received.

Submit comments using the following format:

- Organize comments issue-by-issue. For example, discuss a request to change the compliance time and a request to change the service bulletin reference as two separate issues.

- For each issue, state what specific change to the proposed AD is being requested.

- Include justification (e.g., reasons or data) for each request.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this action must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket Number 2002-NM-301-AD."

The postcard will be date stamped and returned to the commenter.

Availability of NPRMs

Any person may obtain a copy of this NPRM by submitting a request to the FAA, Transport Airplane Directorate, ANM-114, Attention: Rules Docket No. 2002-NM-301-AD, 1601 Lind Avenue, SW., Renton, Washington 98055-4056.

Discussion

The Direction Générale de l'Aviation Civile (DGAC), which is the airworthiness authority for France, notified the FAA that an unsafe condition may exist on certain Aerospatiale Model ATR42-500 and ATR72-212A series airplanes. The DGAC advises that rudder operation difficulties occurred on a Model ATR42-500 series airplane while the airplane was on the ground.

Investigation revealed interference between the rudder and the upper closing rib of the vertical fin. This interference was subsequently attributed to failure of parts of the upper closing rib of the vertical fin due to fatigue cracking induced by installation stress. This condition, if not corrected, could result in a rudder jam and consequent reduced controllability of the airplane.

The subject area on certain Model ATR72-212A series airplanes is almost identical to that on the affected Model ATR42-500 series airplanes. Therefore, those Model ATR72-212A series airplanes may be subject to the unsafe condition revealed on the Model ATR42-500 series airplanes.

Explanation of Relevant Service Information

Aerospatiale has issued Avions de Transport Regional Service Bulletin ATR42-55-0011, dated September 26, 2002 (for Model ATR42-500 series airplanes); and Avions de Transport Regional Service Bulletin ATR72-55-1003, Revision 1, dated November 13, 2002 (for Model ATR72-212A series airplanes). These service bulletins describe procedures for repetitive detailed visual inspections for cracking of the upper closing rib of the vertical fin, and related investigative actions.

The related investigative actions involve measuring the planarity of the upper closing rib and measuring the gap between the rudder horn and the upper closing rib of the vertical fin. If any crack, wave, or anomaly is found, or if any measurement is outside the limits specified in the service bulletin, the service bulletin specifies further actions, which include:

- Removing the fairing of the vertical fin.

- Performing an internal detailed visual inspection of the fin tip closure rib in the area of the fairing, to detect and determine the extent of any cracking.

- Performing a measurement of the fin tip closure rib position.

- Performing an additional measurement of the planarity of the fin tip closure rib.

- Contacting the manufacturer for repair information.

Accomplishment of the actions specified in the applicable service bulletin is intended to adequately address the identified unsafe condition.

The DGAC classified these service bulletins as mandatory and issued French airworthiness directive 2002-506(B) R1, dated December 24, 2002, to ensure the continued airworthiness of these airplanes in France.

FAA's Conclusions

These airplane models are manufactured in France and are type certificated for operation in the United States under the provisions of section 21.29 of the Federal Aviation Regulations (14 CFR 21.29) and the applicable bilateral airworthiness agreement. Pursuant to this bilateral airworthiness agreement, the DGAC has kept the FAA informed of the situation described above. The FAA has examined the findings of the DGAC, reviewed all available information, and determined that AD action is necessary for products of this type design that are certificated for operation in the United States.

Explanation of Requirements of Proposed AD

Since an unsafe condition has been identified that is likely to exist or develop on other airplanes of the same type design registered in the United States, the proposed AD would require accomplishment of the actions specified in the service bulletin described previously, except as discussed below.

Differences Between Proposed AD and Service Bulletins

Although the service bulletins specify that operators may contact the manufacturer for disposition of certain repair conditions, this proposed AD would require operators to repair those conditions per a method approved by either the FAA or the DGAC (or its delegated agent). In light of the type of repair that would be required to address the unsafe condition, and consistent with existing bilateral airworthiness agreements, we have determined that, for this proposed AD, a repair approved by either the FAA or the DGAC would

be acceptable for compliance with this proposed AD.

Operators should note that, although the Accomplishment Instructions of the referenced service bulletins describe procedures for submitting inspection results to the manufacturer, this proposed AD would not require that action.

Interim Action

We consider this proposed AD interim action. If final action is later identified, we may consider further rulemaking then.

Cost Impact

The FAA estimates that 2 Model ATR42–500 series airplanes of U.S. registry would be affected by this proposed AD, that it would take approximately 2 work hours per airplane to accomplish the proposed actions, and that the average labor rate is \$65 per work hour. Based on these figures, the cost impact of the proposed AD on U.S. operators is estimated to be \$260, or \$130 per airplane.

Currently, there are no affected Model ATR72–212A series airplanes on the U.S. Register. However, if an affected airplane is imported and placed on the U.S. Register in the future, it would be subject to the same per-airplane cost specified above for the Model ATR42–500 series airplanes.

The cost impact figures discussed above are based on assumptions that no operator has yet accomplished any of the proposed requirements of this AD action, and that no operator would accomplish those actions in the future if this AD were not adopted. The cost impact figures discussed in AD rulemaking actions represent only the time necessary to perform the specific actions actually required by the AD. These figures typically do not include incidental costs, such as the time required to gain access and close up, planning time, or time necessitated by other administrative actions.

Regulatory Impact

The regulations proposed herein would 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. Therefore, it is determined that this proposal would not have federalism implications under Executive Order 13132.

For the reasons discussed above, I certify that this proposed regulation (1) is not a “significant regulatory action” under Executive Order 12866; (2) is not a “significant rule” under the DOT

Regulatory Policies and Procedures (44 FR 11034, February 26, 1979); and (3) if promulgated, 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. A copy of the draft regulatory evaluation prepared for this action is contained in the Rules Docket. A copy of it may be obtained by contacting the Rules Docket at the location provided under the caption **ADDRESSES**.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Safety.

The Proposed Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration proposes to amend part 39 of the Federal Aviation Regulations (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. Section 39.13 is amended by adding the following new airworthiness directive:

Aerospatiale: Docket 2002–NM–301–AD.

Applicability: Model ATR42–500 and ATR72–212A series airplanes; certificated in any category; on which Aerospatiale Modification 4440 has been accomplished; except those Model ATR42–500 series airplanes having serial numbers (S/Ns) 618 and subsequent; and except those Model ATR72–212A series airplanes having S/Ns 682, 683, 684, 687, and 694 and subsequent.

Compliance: Required as indicated, unless accomplished previously.

To prevent interference between the upper closing rib and the rudder, which could result in a rudder jam and consequent reduced controllability of the airplane, accomplish the following:

Service Bulletin References

(a) The term “service bulletin,” as used in this AD, means the Accomplishment Instructions of Avions de Transport Regional Service Bulletin ATR42–55–0011, dated September 26, 2002 (for Model ATR42–500 series airplanes); and Avions de Transport Regional Service Bulletin ATR72–55–1003, Revision 1, dated November 13, 2002 (for Model ATR72–212A series airplanes); as applicable.

(1) For Model ATR72–212A series airplanes: Actions accomplished before the effective date of this AD per Avions de Transport Regional Service Bulletin ATR72–55–1003, dated October 11, 2002, are acceptable for compliance with the corresponding actions required by this AD.

(2) Where the service bulletins specify to report inspection results to the manufacturer, this AD does not require such reporting.

Repetitive Inspections

(b) Within 500 flight hours after the effective date of this AD: Perform a detailed inspection for cracking of the upper closing rib of the vertical fin, per the Accomplishment Instructions of the applicable service bulletin. Repeat this inspection thereafter at intervals not to exceed 500 flight hours.

Note 1: For the purposes of this AD, a detailed inspection is defined as: “An intensive visual examination of a specific structural area, system, installation, or assembly to detect damage, failure, or irregularity. Available lighting is normally supplemented with a direct source of good lighting at intensity deemed appropriate by the inspector. Inspection aids such as mirror, magnifying lenses, etc., may be used. Surface cleaning and elaborate access procedures may be required.”

Note 2: There is no terminating action available at this time for the repetitive inspections required by paragraph (b) of this AD.

One-Time Follow-On Inspections

(c) Before further flight following the initial detailed inspection for cracking required by paragraph (b) of this AD, measure the planarity of the upper closing rib and measure the gap between the rudder horn and the upper closing rib of the vertical fin; per paragraphs 2.C.(2) and 2.C.(3) of the Accomplishment Instructions of the applicable service bulletin.

Repair

(d) If any crack is found during any inspection required by paragraph (b) of this AD; or if any wave, anomaly, or measurement is found that is outside the limits specified in the applicable service bulletin: Before further flight, do all applicable actions in and per paragraph 2.C.(4) of the applicable service bulletin; except, where the applicable service bulletin says to contact the manufacturer for an approved repair solution, repair per a method approved by either the Manager, International Branch, ANM–116, FAA, Transport Airplane Directorate; or the Direction Generale de l'Aviation Civile (or its delegated agent).

Alternative Methods of Compliance

(e) In accordance with 14 CFR 39.19, the Manager, International Branch, ANM–116, is authorized to approve alternative methods of compliance for this AD.

Note 3: The subject of this AD is addressed in French airworthiness directive 2002–506(B) R1, dated December 24, 2002.

Issued in Renton, Washington, on March 5, 2004.

Ali Bahrami,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.

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