DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39


RIN 2120–AA64

Airworthiness Directives; Bombardier, Inc., Airplanes

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

ACTION: Final rule.

SUMMARY: We are superseding Airworthiness Directive (AD) 2016–11–02, which applied to all Bombardier, Inc., Model CL–600–2C10 (Regional Jet Series 700, 701, & 702) airplanes; Model CL–600–2D15 (Regional Jet Series 705) airplanes; Model CL–600–2D24 (Regional Jet Series 900) airplanes; and Model CL–600–2E25 (Regional Jet Series 1000) airplanes. AD 2016–11–02 required repetitive inspections of the upper and lower engine pylons for protruding, loose, or missing fasteners; and repair if necessary. This AD continues to require the repetitive inspections of the upper and lower engine pylons for protruding, loose, or missing fasteners; and repair if necessary. This AD also requires replacement of affected fasteners, which terminates the inspections. This AD was prompted by reports of loose or missing fasteners and collars on the upper and lower engine pylon structure common to the upper and lower pylon skin panels and engine thrust fitting. We are issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective June 28, 2018.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of June 28, 2018. The Director of the Federal Register approved the incorporation by reference of certain other publications listed in this AD as of June 10, 2016 (81 FR 33371, May 26, 2016).

ADDITIONAL INFORMATION: For service information identified in this final rule, contact Bombardier, Inc., 400 Côte Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514–855–5000; fax 514 855–7401; email thd.cfr@ aero.bombardier.com; internet http:// www.bombardier.com. You may view this referenced service information at the FAA, Transport Standards Branch, 2200 South 216th Street, Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195. It is also available on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2017–0530.

Examining the AD Docket

You may examine the AD docket on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2017–0530; or in person at the Docket Management Facility between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this AD, the regulatory evaluation, any comments received, and other information. The address for the Docket Office (telephone 800–647–5527) is Docket Management Facility, U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590.


Supplementary Information:

Discussion

We issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 to supersede AD 2016–11–02, Amendment 39–18529 (81 FR 33371, May 26, 2016) (“AD 2016–11–02”). AD 2016–11–02 applied to all Bombardier, Inc., Model CL–600–2C10 (Regional Jet Series 700, 701, & 702) airplanes; Model CL–600–2D15 (Regional Jet Series 705) airplanes; Model CL–600–2D24 (Regional Jet Series 900) airplanes; and Model CL–600–2E25 (Regional Jet Series 1000) airplanes. The NPRM published in the Federal Register on June 12, 2017 (82 FR 26864). The NPRM was prompted by reports of loose or missing fasteners and collars on the upper and lower engine pylon structure common to the upper and lower pylon skin panels and engine thrust fitting. The NPRM proposed to continue to require the repetitive inspections of the upper and lower engine pylons for protruding, loose, or missing fasteners; and repair if necessary. The NPRM also proposed to require replacement of affected fasteners, which terminates the inspections. We are issuing this AD to prevent protruding, loose, or missing fasteners, which could result in structural failure of the engine pylons.

Transport Canada Civil Aviation (TCCA), which is the aviation authority
for Canada, has issued Canadian Airworthiness Directive CF–2016–10R1, dated July 8, 2016 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for all Bombardier, Inc., Model CL–600–2C10 (Regional Jet Series 700, 701, & 702) airplanes; Model CL–600–2D15 (Regional Jet Series 705) airplanes; Model CL–600–2D24 (Regional Jet Series 900) airplanes; and Model CL–600–2E25 (Regional Jet Series 1000) airplanes. The MCAI states:

There have been several reported findings of loose or missing Hi-Lite fasteners and collars on the left hand (L/H) and right hand (R/H) upper and lower engine pylon structure common to the upper and lower pylon skin panels and engine thrust fitting. Missing fasteners in these areas are shown to significantly reduce the safety margins and could result in a structural failure of the engine pylon.

Bombardier, as an interim corrective action issued a new Aircraft Maintenance Manual (AMM) task for detailed inspection of the engine pylon rib and skin fasteners to inspect for protruding, loose or missing fasteners and rectify any discrepancies noted in accordance with a Repair Engineering Order (REO). The original version of this [Canadian] AD, CF–2016–10, mandated the subject inspection and necessary rectification.

Bombardier has since issued Service Bulletin (SB) 670BA–54–007 to replace all affected fasteners with interference fit fasteners [including applicable related investigative and corrective actions], as terminating action for the mandated inspection requirement. [Canadian] AD CF–2016–10 is now being revised to mandate compliance with SB 670BA–54–007.

Related investigative actions include measurements of the attach holes in the engine pylon upper structure and special detailed visual inspections for cracks in the engine pylon structure. Corrective actions include repair. You may examine the MCAI in the AD docket on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2017–0530.


Comments

We gave the public the opportunity to participate in developing this AD. The following presents the comments received on the NPRM and the FAA’s response to each comment.

Request To Include Additional Service Information in Credit Paragraph

Mesa Airlines suggested that Bombardier Service Bulletin 670BA–54–007, dated May 13, 2016, be included in paragraph (l), “Credit for Previous Actions,” of the proposed AD. The commenter did not provide justification for its request. We infer that the commenter made this request to provide credit for operators that completed the actions in Bombardier Service Bulletin 670BA–54–007, dated May 13, 2016, prior to the effective date of the proposed AD.

We do not agree that the commenter’s requested change is needed. Paragraph (l) of this AD states that the actions specified in this AD must be accomplished “unless already done.” The phrase “unless already done” provides credit for accomplishment of the actions required by paragraph (j) of this AD, if done in accordance with the Accomplishment Instructions of Bombardier Service Bulletin 670BA–54–007, dated May 13, 2016, prior to the effective date of this AD. Therefore, we have not changed this AD in this regard.

Request To Revise Paragraph (g) of the Proposed AD To Require Airplane Maintenance Manual Task

Bombardier requested that Task 54–51–01–220–801, “Detailed Inspection of the Engine Pylon Rib and Skin Fasteners,” to Chapter 54, “Nacelle/Pylons,” to Part 2 of the Bombardier CRJ700/900/1000 Aircraft Maintenance Manual (AMM), be required by paragraph (g) of the proposed AD in lieu of Bombardier Temporary Revision (TR) 54–0007, dated March 8, 2016, to the CRJ700/900/1000 AMM. The commenter stated that Bombardier TR 54–0007 was incorporated into Revision 52 of the Bombardier CRJ700/900/1000 AMM, and that the AMM is currently at Revision 56.

We partially agree with the commenter’s request. We agree to include Task 54–51–01–220–801, “Detailed Inspection of the Engine Pylon Rib and Skin Fasteners,” to Chapter 54, “Nacelle/Pylons,” to Part 2 of the Bombardier CRJ700/900/1000 AMM as a method of compliance in paragraph (g) of this AD, but we do not agree to remove Bombardier TR 54–0007, dated March 8, 2016, to the Bombardier CRJ700/900/1000 AMM. We have revised paragraph (g) of this AD to include both Task 54–51–01–220–801, “Detailed Inspection of the Engine Pylon Rib and Skin Fasteners,” to Chapter 54, “Nacelle/Pylons,” to Part 2 of the Bombardier CRJ700/900/1000 AMM, CSP B–001, Revision 56, dated September 25, 2017; and Bombardier TR 54–0007, dated March 8, 2016. This revision provides operators with an option to use either service document to accomplish the required action.

Conclusion

We reviewed the available data, including the comments received, and determined that air safety and the public interest require adopting this AD with the changes described previously and minor editorial changes. We have determined that these changes:

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

We also determined that these changes will not increase the economic burden on any operator or increase the scope of this AD.

Related Service Information Under 1 CFR Part 51

Bombardier, Inc., issued Service Bulletin 670BA–54–007, dated May 13, 2016. This service information describes procedures for replacing fasteners and collars, including applicable related investigative and corrective actions.

Bombardier, Inc., also issued Repair Engineering Order 670–54–034, “Repair for Missing or Loose/Protruding Fasteners in Upper and Lower Pylon Skins FS 1088—FS 1098, PBL 69.3 L & RHS,” Revision A, dated April 20, 2016. This service information describes procedures for repair, including applicable related investigative and corrective actions.

In addition, Bombardier, Inc., issued TR 54–0007, dated March 8, 2016, to the CRJ700/900/1000 AMM; and Task 54–51–01–220–801, “Detailed Inspection of the Engine Pylon Rib and Skin Fasteners,” to Chapter 54, “Nacelle/Pylons,” to Part 2 of the Bombardier CRJ700/900/1000 AMM, CSP B–001. Revision 56, dated September 25, 2017. This service information describes procedures for a detailed visual inspection for protruding, loose, or missing fasteners of the left-hand and right-hand upper and lower engine pylons. The content of these documents is nearly identical, except for labels on the figures; we have chosen to incorporate both documents by reference so that either may be used to comply with certain requirements of this AD.

This service information 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

We estimate that this AD affects 273 airplanes of U.S. registry.

We estimate the following costs to comply with this AD:
We estimate the following costs to do any necessary repairs that will be required based on the results of the inspection. We have no way of determining the number of aircraft that might need these repairs:

### ESTIMATED COSTS

<table>
<thead>
<tr>
<th>Action</th>
<th>Labor cost</th>
<th>Parts cost</th>
<th>Cost per product</th>
<th>Cost on U.S. operators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection (retained from AD 2016–11–02). Replacement (new action).</td>
<td>1 work-hour × $85 per hour = $85 per inspection cycle. 43 work-hours × $85 per hour = $3,655 per inspection cycle.</td>
<td>$0 1,808</td>
<td>$85 per inspection cycle. $5,463 per inspection cycle.</td>
<td>$23,205 per inspection cycle. $1,491,399 per inspection cycle.</td>
</tr>
</tbody>
</table>

We have received no definitive data that will enable us to provide cost estimates for the parts cost specified in this AD for the on-condition repairs.

### On-Condition Costs

<table>
<thead>
<tr>
<th>Action</th>
<th>Labor cost</th>
<th>Parts cost</th>
<th>Cost per product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair (retained from AD 2016–11–02).</td>
<td>Up to 32 work-hours × $85 per hour = $2,720</td>
<td>(1)</td>
<td>(1) up to $2,720.</td>
</tr>
</tbody>
</table>

**Authority for This Rulemaking**


We are 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 the authority delegated to me by the Administrator, “Subtitle VII: Aviation Programs,” describes in more detail 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 to the Director of the System Oversight Division.

### Regulatory Findings

We determined that 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. Is not a “significant rule” under the DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979);
3. Will not affect intrastate aviation in Alaska; and
4. 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) 2016–11–02, Amendment 39–18529 (81 FR 33371, May 26, 2016), and adding the following new AD:


   **(a) Effective Date**

   This AD is effective June 28, 2018.

   **(b) Affected ADs**

   This AD replaces AD 2016–11–02, Amendment 39–18529 (81 FR 33371, May 26, 2016) (“AD 2016–11–02”).

   **(c) Applicability**

   This AD applies to the airplanes identified in paragraphs (c)(1) through (c)(4) of this AD, certificated in any category.

   1. Bombardier, Inc., Model CL–600–2C10 (Regional Jet Series 700, 701, & 702) airplanes, serial numbers (S/Ns) 10002 through 10344 inclusive.

   **(d) Subject**

   Air Transport Association (ATA) of America Code 54, Nacelles/Pylons.

   **(e) Reason**

   This AD was prompted by reports of loose or missing fasteners and collars on the upper and lower engine pylon structure common to the upper and lower pylon skin panels and engine thrust fitting. We are issuing this AD to prevent protruding, loose, or missing fasteners, which could result in structural failure of the engine pylons.

   **(f) Compliance**

   Comply with this AD within the compliance times specified, unless already done.
(g) Retained Inspection, With a Reference To Terminating Action and Additional Service Information

This paragraph restates the requirements of paragraph (g) of AD 2016–11–02, with a reference to new terminating action and additional service information. At the applicable time specified in paragraph (g)(1) or (g)(2) of this AD: Do a detailed visual inspection for protruding, loose, or missing fasteners of the upper and lower engine pylons, in accordance with Bombardier Temporary Revision 54–0007, dated March 8, 2016, to the CRJ700/900/1000 Aircraft Maintenance Manual; or Task 54–51–01–220–801, “Detailed Inspection of the Engine Pylon Rib and Skin Fasteners,” to Chapter 54, “Nacelle/Pylons,” to Part 2 of the Bombardier CRJ700/900/1000 Aircraft Maintenance Manual, CSP B–001, Revision 56, dated September 25, 2017. Repeat the inspection thereafter at intervals not to exceed 1,500 flight hours. Accomplishment of the replacement required by paragraph (j) of this AD is terminating action for the inspections required by this paragraph.

(1) For airplanes that have accumulated more than 840 total flight hours, as of June 10, 2016 (the effective date of AD 2016–11–02): Inspect within 660 flight hours or 3 months, whichever occurs first, after June 10, 2016.

(2) For airplanes that have accumulated 840 total flight hours or less as of June 10, 2016 (the effective date of AD 2016–11–02): Inspect before the accumulation of 1,500 total flight hours.

(h) Retained Repair, With New Service Information and Contact Information

This paragraph restates the requirements of paragraph (h) of AD 2016–11–02, with new service information and contact information. If any protruding, loose, or missing fastener is found during any inspection required by paragraph (g) of this AD, before further flight, repair, including applicable related investigative and corrective actions, in accordance with Bombardier Repair Engineering Order (REO) 670–54–51–034, “Repair for Missing or Loose/Protruding Fasteners in Upper and Lower Pylon Skins FS 1088–FS 1098, PBL 69.3 L & RHS,” dated March 7, 2016, or Revision A, dated April 20, 2016; specifies to contact Bombardier for appropriate action: Before further flight, accomplish the applicable corrective action in accordance with the procedures specified in paragraph (m)(2) of this AD.

(k) Terminating Action for the Introductory Text of Paragraph (g) of This AD

Accomplishing the replacement required by paragraph (j) of this AD constitutes terminating action for the inspections required by the introductory text of paragraph (g) of this AD.

(l) Credit for Previous Actions

This paragraph provides credit for the actions specified in paragraph (h) of this AD, if those actions were performed before the effective date of this AD using Bombardier REO 670–54–51–034, “Repair for Missing or Loose/Protruding Fasteners in Upper and Lower Pylon Skins FS 1088–FS 1098, PBL 69.3 L & RHS,” dated March 7, 2016. This document is incorporated by reference in AD 2016–11–02.

(2) This paragraph provides credit for the actions specified in paragraph (j) of this AD, if those actions were performed before the effective date of this AD using Bombardier REO 670–54–51–035, “Permanent Repair for Clearance Fit Installed (–8) Size Fasteners in Upper and Lower Pylon Skins FS 1088–FS 1098, PBL 69.3 L & RHS & Terminating Action for GREQ 670–54–51–034,” dated April 20, 2016. This document is not incorporated by reference in this AD.

(m) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOC): The Manager, FAA, New York ACO Branch, 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 manager of the certification office, send it to ATTN: Program Manager, Continuing Operational Safety, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516–226–7300; fax 516–794–5531.

(2) The following service information was approved for IBR: By the FAA, New York ACO Branch, on June 10, 2016 (FR 81 FR 33371, May 26, 2016).


(4) The following service information was approved for IBR: By the FAA, New York ACO Branch, on June 10, 2016 (FR 81 FR 33371, May 26, 2016).

(5) For service information identified in this AD, contact Bombardier, Inc., 400 Côte
Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514–855–5000; fax 514 855–7401; email thd.cfr@ aero.bombardier.com; internet http://www.bombardier.com.

(6) You may view this service information at the FAA, Transport Standards Branch, 2200 South 21st Street, Des Moines, WA. For information on the availability of this material at the FAA, call 206–231–3195.

(7) 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: http://www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued in Des Moines, Washington, on April 27, 2018.

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

[FR Doc. 2018–09863 Filed 5–23–18; 8:45 am]
BILLING CODE 4910–13–P

DEPARTMENT OF TRANSPORTATION
Federal Aviation Administration

14 CFR Part 39


RIN 2120–AA64

Airworthiness Directives; Honda Aircraft Company LLC Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: We are superseding Airworthiness Directive (AD) 2018–06–10 for certain Honda Aircraft Company LLC Model HA–420 airplanes. AD 2018–06–10 required incorporating a temporary revision into the airplane flight manual and replacing faulty power brake valves upon condition. This AD retains the actions required in AD 2018–06–10 and adds airplanes to the Applicability section. This AD was prompted by an inadvertent mistake in the serial number applicability (both in the service bulletin and in the AD). We are issuing this AD to address the unsafe condition on these products by correcting the inadvertent serial number error.

DATES: This AD is effective May 29, 2018.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of May 29, 2018.

The Director of the Federal Register approved the incorporation by reference of certain other publications listed in this AD as of April 13, 2018 (83 FR 13401, March 29, 2018). We must receive any comments on this AD by July 9, 2018.

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

• Federal eRulemaking Portal: Go to http://www.regulations.gov. Follow the instructions for submitting comments.
• Fax: 202–493–2251.
• Hand Delivery: U.S. Department of Transportation, Docket Operations, M–30, West Building Ground Floor, Room W12–140, 1200 New Jersey Avenue SE, Washington, DC 20590, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this final rule, contact Honda Aircraft Company LLC, 6430 Ballinger Road, Greensboro, North Carolina 27410; telephone (336) 662–0246; internet: http://www.hondajet.com. You may view this service information at the FAA, Policy and Innovation Division, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329–4148. It is also available on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2018–0463.

Examining the AD Docket

You may examine the AD docket on the internet at http://www.regulations.gov by searching for and locating Docket No. FAA–2018–0463; or in person at Docket Operations (phone: 800–647–5527) in person at 1200 New Jersey Avenue SE, Washington, DC 20590, 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 street address for Docket Operations (phone: 800–647–5527) is listed above. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Samuel Kovitch, Aerospace Engineer, Atlanta ACO Branch, FAA, 1701 Columbia Avenue, College Park, Georgia 30337; phone: (404) 474–5570; fax: (404) 474–5605; email: samuel.kovitch@faa.gov.

SUPPLEMENTARY INFORMATION:

Discussion

We issued AD 2018–06–10, Amendment 39–19230 (83 FR 13401, March 29, 2018), (“AD 2018–06–10”), for certain Honda Aircraft Company LLC Model HA–420 airplanes. AD 2018–06–10 required incorporating a temporary revision into the airplane flight manual and replacing faulty power brake valves upon condition. AD 2018–06–10 resulted from reports of unannunciated asymmetric braking during ground operations and landing deceleration. We issued AD 2018–06–10 to detect failure of the power brake valve. The unsafe condition, if not addressed, could result in degraded braking performance and reduced directional control during ground operations and landing deceleration.

Actions Since AD 2018–06–10 was Issued

Since we issued AD 2018–06–10, we were notified by Honda Aircraft Company that Service Bulletin SB–420–32–001, dated January 8, 2018, contains a typographical error in the serial number effectivity, which was also used as the basis for the Applicability section of AD 2018–06–10. The service bulletin incorrectly listed the applicable Model HA–420 airplane serial number effectivity as 42000011 through 4200089 instead of 42000011 through 4200089. We are issuing this AD to address the unsafe condition on these products by correcting the inadvertent serial number error.

Related Service Information Under 1 CFR Part 51

We reviewed Honda Aircraft Company Service Bulletin SB–420–32–001. Revision B, dated April 16, 2018. The service information describes procedures for replacing a defective PBV with an improved design PBV. This service information 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.

FAA’s Determination

We are issuing this AD because we evaluated all the relevant information and determined the unsafe condition described previously is likely to exist or develop in other products of the same type design.

AD Requirements

This AD requires inserting a temporary revision into the AFM, which may be performed by the owner/operator (pilot) holding at least a private pilot certificate and must be entered into the airplane records showing