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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2019-0578; Product Identifier 2019-NM-111-AD; Amendment 39-19697; AD 2019-15-04]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc. Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule; request for comments.

SUMMARY: The FAA is adopting a new airworthiness directive (AD) for certain Bombardier, Inc., Model BD-100-1A10 airplanes. This AD was prompted by a report of a mis-installed no-back pawl discovered on a horizontal stabilizer trim actuator (HSTA). This AD requires an inspection to verify the horizontal stabilizer trim electronic control unit (HSTECU) part number, a software upgrade for certain HSTECUs, and installation of HSTECUs with upgraded software. The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD becomes effective August 23, 2019.

The Director of the Federal Register approved the incorporation by reference of a certain publication listed in this AD as of August 23, 2019.

The FAA must receive comments on this AD by September 23, 2019.

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.

Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

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, between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this final rule, contact Bombardier, Inc., 200 Côte-Vertu Road West, Dorval, Québec H4S 2A3, Canada; North America toll-free telephone 1-866-538-1247 or direct-dial telephone 1-514-855-2999; email ac.yul@aero.bombardier.com; internet

<http://www.bombardier.com>. 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 on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0578.

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-2019-0578; or in person at the Docket Operations office 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 street address for the Docket Operations office is listed above. Comments will be available in the AD docket shortly after receipt.

FOR FURTHER INFORMATION CONTACT: Darren Gassetto, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7323; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov.

SUPPLEMENTARY INFORMATION: Discussion

Transport Canada Civil Aviation (TCCA), which is the aviation authority for Canada, has issued Canadian AD CF-2019-23, dated June 18, 2019 (referred to after this as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for certain Bombardier, Inc., Model BD-100-1A10 airplanes. The MCAI states:

During an unscheduled inspection, a mis-installed no-back pawl was discovered on a Horizontal Stabilizer Trim Actuator (HSTA). The no-back mechanism is a primary means to prevent back driving of the HSTA, and the Motor Brake Assemblies (MBA) are the secondary means. If not corrected, unavailability of the no-back mechanism in combination with loss of, or degraded HSTA MBA braking capability, could lead to a loss of the aeroplane.

This [TCCA] AD mandates a software upgrade for the HSTECU to verify the MBA for braking capability during the power up test.

You may examine the MCAI on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0578.

Related Service Information Under 1 CFR Part 51

Bombardier has issued Service Bulletin 100-27-15, Revision 01, dated June 11, 2019. This service information describes procedures for an inspection to verify the HSTECU part number, a software upgrade for certain HSTECUs, and installation of HSTECUs with upgraded software. 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

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with the State of Design

Authority, the agency has been notified of the unsafe condition described in the MCAI and service information referenced above. The FAA is issuing this AD because it has evaluated all pertinent information and determined the unsafe condition exists and is likely to exist or develop on other products of the same type design.

Requirements of This AD

This AD requires accomplishing the actions specified in the service information described previously.

Justification for Immediate Adoption and Determination of the Effective Date

Section 553(b)(3)(B) of the Administrative Procedure Act (APA) (5 U.S.C.) authorizes agencies to dispense with notice and comment procedures for rules when the agency, for “good cause,” finds that those procedures are “impracticable, unnecessary, or contrary to the public interest.” Under this section, an agency, upon finding good cause, may issue a final rule without seeking comment prior to the rulemaking. Similarly, Section 553(d) of the APA authorizes agencies to make rules effective in less than thirty days, upon a finding of good cause.

The FAA has received a report that a mis-installed no-back pawl was discovered on a HSTA. The no-back pawl is a primary means to prevent back driving of the HSTA, and the MBA are the secondary means. If not corrected, unavailability of the no-back pawl, in combination with loss of or degraded HSTA MBA braking capability, could lead to a loss of the airplane.

The FAA therefore considers the prompt identification and prevention of this unsafe condition to be an urgent safety issue. Accordingly, notice and opportunity for prior public comment are impracticable and contrary to the public interest pursuant to 5 U.S.C. 553(b)(3)(B). In addition, the FAA finds that good cause exists pursuant to 5 U.S.C. 553(d) for making this amendment effective in less than 30 days.

Regulatory Flexibility Act (RFA)

The requirements of the RFA do not apply when an agency finds good cause pursuant to 5 U.S.C. 553 to adopt a rule without prior notice and comment. Because the FAA has determined that it has good cause to adopt this rule without notice and comment, RFA analysis is not required.

Comments Invited

This AD is a final rule that involves requirements affecting flight safety, and was not preceded by notice and opportunity for public comment. The FAA invites you to send any written relevant data, views, or arguments about this AD. Send your comments to an address listed under the ADDRESSES section. Include “Docket No. FAA-2019-0578; Product Identifier 2019-NM-111-AD” at the beginning of your comments. The FAA specifically invites comments on the overall regulatory, economic, environmental, and energy aspects of this AD. The agency will consider all comments received by the closing date and may amend this AD based on those comments.

The FAA will post all comments received, without change, to <http://www.regulations.gov>, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this AD.

Costs of Compliance

The FAA estimates that this AD affects 9 airplanes of U.S. registry. The agency estimates the following costs to comply with this AD:

Estimated Costs for Required Actions

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
Up to 4 work-hours × \$85 per hour = Up to \$340	Up to \$27,138	Up to \$27,478	Up to \$247,302.

According to the manufacturer, some or all of the costs of this AD may be covered under warranty, thereby reducing the cost impact on affected individuals. The FAA does not control warranty coverage for affected individuals. As a result, the agency has included all known costs in its cost estimate.

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

The FAA 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, and
- (2) Will not affect intrastate aviation in Alaska.

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 adding the following new airworthiness directive (AD):



2019-15-04 Bombardier, Inc.: Amendment 39-19697; Docket No. FAA-2019-0578; Product Identifier 2019-NM-111-AD.

(a) Effective Date

This AD becomes effective August 23, 2019.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bombardier, Inc., Model BD-100-1A10 airplanes, certificated in any category, serial numbers 20001 through 20337 inclusive.

(d) Subject

Air Transport Association (ATA) of America Code 27, Flight controls.

(e) Reason

This AD was prompted by a report of a mis-installed no-back pawl discovered on a horizontal stabilizer trim actuator (HSTA). The FAA is issuing this AD to address the possible unavailability of the no-back pawl which, in combination with loss of or degraded HSTA motor brake assembly (MBA) braking capability, could lead to a loss of the airplane.

(f) Compliance

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

(g) Inspection

Within 100 flight hours or 60 days, whichever occurs first, after the effective date of this AD: Perform an inspection to verify the part number (P/N) of the horizontal stabilizer trim electronic control unit (HSTECU) installed on the airplane, in accordance with paragraph 2.B.(1) of the Accomplishment Instructions of Bombardier Service Bulletin 100-27-15, Revision 01, dated June 11, 2019. If the installed HSTECU has P/N C47329-007 or subsequent configurations, no further action is required by this paragraph.

(h) Installation of HSTECUs With Upgraded Software

(1) If, during the inspection specified in paragraph (g) of this AD, the installed HSTECU has P/N C47329-003: Within 100 flight hours or 60 days, whichever occurs first, after the effective date of

this AD, remove the HSTECU and install an upgraded HSTECU having P/N C47329-010, C47329-011 or C47329-012, in accordance with paragraphs 2.B.(2) through 2.B.(4) of the Accomplishment Instructions of Bombardier Service Bulletin 100-27-15, Revision 01, dated June 11, 2019.

(2) If, during the inspection specified in paragraph (g) of this AD, the installed HSTECU has P/N C47329-004, C47329-005 or C47329-006: Within 100 flight hours or 60 days, whichever occurs first, after the effective date of this AD, remove the HSTECU, upgrade the HSTECU software, and reinstall the upgraded HSTECU, in accordance with paragraphs 2.B.(2) through 2.B.(4) of the Accomplishment Instructions of Bombardier Service Bulletin 100-27-15, Revision 01, dated June 11, 2019.

(i) Parts Installation Limitation

As of the effective date of this AD, no person may install, on any airplane, an HSTECU having P/N C47329-003, C47329-004, C47329-005 or C47329-006.

(j) No Reporting Requirement

Although Bombardier Service Bulletin 100-27-15, Revision 01, dated June 11, 2019, specifies to submit certain information to the manufacturer, this AD does not include that requirement.

(k) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) Alternative Methods of Compliance (AMOCs): The Manager, New York ACO 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 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 516-228-7300; fax 516-794-5531. 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 corrective actions from a manufacturer, the action must be accomplished using a method approved by the Manager, New York ACO Branch, FAA; or Transport Canada Civil Aviation (TCCA); or Bombardier, Inc.'s TCCA Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

(l) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian AD CF-2019-23, dated June 18, 2019, for related information. This MCAI may be found in the AD docket on the internet at <http://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0578.

(2) For more information about this AD, contact Darren Gassetto, Aerospace Engineer, Mechanical Systems and Administrative Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7323; fax 516-794-5531; email 9-avs-nyaco-cos@faa.gov.

(m) 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.

(i) Bombardier Service Bulletin 100-27-15, Revision 01, dated June 11, 2019.

(ii) [Reserved]

(3) For service information identified in this AD, contact Bombardier, Inc., 200 Côte-Vertu Road West, Dorval, Québec H4S 2A3, Canada; North America toll-free telephone 1-866-538-1247 or direct-dial telephone 1-514-855-2999; email ac.yul@aero.bombardier.com; internet <http://www.bombardier.com>.

(4) You may view this 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.

(5) 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 July 23, 2019.

Dionne Palermo,
Acting Director, System Oversight Division,
Aircraft Certification Service.