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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2019-0728; Product Identifier 2019-NM-071-AD; Amendment 39-19892; AD 2020-07-13]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc., Airplanes

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

ACTION: Final rule.

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 that during ALTS CAP or (V) ALTS CAP mode, the flight guidance/autopilot does not account for engine failure while capturing an altitude. This AD requires revising the existing airplane flight manual (AFM) to provide the flightcrew with new warnings for “Autoflight” and “Engine Failure in Climb During ALTS CAP.” The FAA is issuing this AD to address the unsafe condition on these products.

DATES: This AD is effective May 18, 2020.

The Director of the Federal Register approved the incorporation by reference of certain publications listed in this AD as of May 18, 2020.

ADDRESSES: 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 phone: 1-866-538-1247 or direct-dial phone: 1-514-855-2999; email: ac.yul@aero.bombardier.com; internet: <http://www.bombardier.com>. 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. It is also available on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0728.

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-2019-0728; 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: Steven Dzierzynski, Aerospace Engineer, Avionics and Electrical Systems Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 516-228-7367; 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-2019-12, dated April 3, 2019 (“Canadian AD CF-2019-12”) (also referred to as the Mandatory Continuing Airworthiness Information, or “the MCAI”), to correct an unsafe condition for certain Bombardier, Inc., Model BD-100-1A10 airplanes. You may examine the MCAI in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0728.

The FAA issued a notice of proposed rulemaking (NPRM) to amend 14 CFR part 39 by adding an AD that would apply to certain Bombardier, Inc., Model BD-100-1A10 airplanes. The NPRM published in the Federal Register on November 6, 2019 (84 FR 59739). The NPRM was prompted by a report that during ALTS CAP or (V) ALTS CAP mode, the flight guidance/autopilot does not account for engine failure while capturing an altitude. The NPRM proposed to require revising the existing AFM to provide the flightcrew with new warnings for “Autoflight” and “Engine Failure in Climb During ALTS CAP.” The FAA is issuing this AD to address the occurrence of an engine failure during or before a climb while in ALTS CAP or (V) ALTS CAP mode, as it could cause the airspeed to drop significantly below the safe operating speed and may require flightcrew intervention to maintain a safe operating speed. 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 comment received on the NPRM and the FAA's response to that comment.

Request for Clarification of Intent of the Required Actions

NetJets asked if the FAA's intent is to require operators to request approval of an alternative method of compliance (AMOC) each time the AFM is revised. NetJets then requested that if the intent is to require approval of an AMOC each time the AFM is revised, to decrease the number of AMOCs necessary, the FAA specifically refer to Revision 19 of Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM. NetJets noted that paragraph (g) of the proposed AD refers to Revision 21 of Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM, but pointed out that the ALTS CAP warning was introduced in Revision 19 of Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM. NetJets also pointed out that the current revision of Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM is Revision 23.

The FAA agrees to clarify the intent of the AD requirement. The FAA has determined that it is appropriate to match the documents referenced in the MCAI, and has therefore revised this AD to refer to those documents: Bombardier Challenger 300 Airplane Flight Manual, Publication No. CSP 100-1, Revision 53, dated September 5, 2018; and Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM, Revision 19, dated September 5, 2018. The information contained in these revisions is the same as that in the later revisions that were referenced in the NPRM. This AD requires including the information that is provided in the referenced AFM revisions.

However, the language in paragraph (g) of this AD is designed to allow incorporating the specific information, regardless of the revision level of the AFM in use, provided the language is identical to the referenced AFM revisions specified in paragraph (g) of this AD.

Conclusion

The FAA reviewed the relevant data, considered the comment received, and determined that air safety and the public interest require adopting this final rule with the change described previously and 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 in the NPRM.

The FAA also determined that these changes will not increase the economic burden on any operator or increase the scope of this final rule.

Related Service Information Under 1 CFR Part 51

Bombardier has issued the following service information, which provides new warnings for the “Autoflight” procedure in Section 02-04, “Systems Limitations,” of the LIMITATIONS section; and “Engine Failure in Climb During ALTS CAP,” procedure in Section 03-32, “Powerplant,” of the EMERGENCY PROCEDURES section; of the applicable AFM.

- Bombardier Challenger 300 Airplane Flight Manual, Publication No. CSP 100-1, Revision 53, dated September 5, 2018.
- Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM, Revision 19, dated September 5, 2018.

These documents are distinct since they apply to different airplane models in different configurations. 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

The FAA estimates that this AD affects 252 airplanes of U.S. registry. The FAA 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
1 work-hour × \$85 per hour = \$85	\$0	\$85	\$21,420

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.

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 adding the following new airworthiness directive (AD):



AIRWORTHINESS DIRECTIVE

www.faa.gov/aircraft/safety/alerts/
www.gpoaccess.gov/fr/advanced.html

2020-07-13 Bombardier, Inc.: Amendment 39-19892; Docket No. FAA-2019-0728; Product Identifier 2019-NM-071-AD.

(a) Effective Date

This AD is effective May 18, 2020.

(b) Affected ADs

None.

(c) Applicability

This AD applies to Bombardier, Inc., Model BD-100-1A10 airplanes, certificated in any category, serial numbers 20003 through 20500 inclusive and 20501 through 20752 inclusive.

(d) Subject

Air Transport Association (ATA) of America Code 22, Auto flight.

(e) Reason

This AD was prompted by a report that during “ALTS CAP” or “(V) ALTS CAP” mode, the flight guidance/autopilot does not account for engine failure while capturing an altitude. The FAA is issuing this AD to address the occurrence of an engine failure during or before a climb while in ALTS CAP or (V) ALTS CAP mode, as it could cause the airspeed to drop significantly below the safe operating speed and may require prompt flightcrew intervention to maintain a safe operating speed.

(f) Compliance

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

(g) Revision of the Existing Airplane Flight Manual (AFM)

Within 30 days after the effective date of this AD: Revise the existing AFM to include the information in the “Autoflight” procedure in Section 02-04, “System Limitations,” of the LIMITATIONS section, and “Engine Failure in Climb During ALTS CAP,” procedure in Section 03-32, “Powerplant,” of the EMERGENCY PROCEDURES section; of the Bombardier Challenger 300 Airplane Flight Manual, Publication No. CSP 100-1, Revision 53, dated September 5, 2018 (for airplanes having serial numbers 20003 through 20500 inclusive); or the Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM, Revision 19, dated September 5, 2018 (for airplanes having serial numbers 20501 through 20752 inclusive).

(h) 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; phone: 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.

(i) Related Information

(1) Refer to Mandatory Continuing Airworthiness Information (MCAI) Canadian AD CF-2019-12, dated April 3, 2019, for related information. This MCAI may be found in the AD docket on the internet at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2019-0728.

(2) For more information about this AD, contact Steven Dzierzynski, Aerospace Engineer, Avionics and Electrical Systems Services Section, FAA, New York ACO Branch, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: 516-228-7367; fax: 516-794-5531; email: 9-avs-nyaco-cos@faa.gov.

(j) 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 Challenger 300 Airplane Flight Manual, Publication No. CSP 100-1, Revision 53, dated September 5, 2018.

(A) Section 02-04, "Systems Limitations," of the LIMITATIONS section.

(B) Section 03-32, "Powerplant," of the EMERGENCY PROCEDURES section.

(ii) Bombardier Challenger 350 Airplane Flight Manual, Publication No. CH 350 AFM, Revision 19, dated September 5, 2018.

(A) Section 02-04, "Systems Limitations," of the LIMITATIONS section.

(B) Section 03-32, "Powerplant," of the EMERGENCY PROCEDURES section.

(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 phone: 1-866-538-1247 or direct-dial phone: 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, email fedreg.legal@nara.gov, or go to: <https://www.archives.gov/federal-register/cfr/ibr-locations.html>.

Issued on April 3, 2020.

Gaetano A. Sciortino,

Deputy Director for Strategic Initiatives, Compliance & Airworthiness Division, Aircraft
Certification Service.

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