



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) with ADs.

Number:

CF-2021-14

Effective Date:

21 April 2021

ATA:

27

Type Certificate:

A-234

Subject:

Flight Controls – Spoiler Electronic Control Unit (SECU) Engine Indication and Crew Alerting System (EICAS) – Intermittent and Repetitive Messages

Applicability:

Bombardier Inc. model BD-100-1A10 aeroplanes, all serial numbers.

Compliance:

Within 60 days from the effective date of this AD, unless already accomplished.

Background:

The design of the spoiler control system is such that certain EICAS messages may be posted intermittently and repetitively, during flight and on the ground. These messages reflect real system behavior and are not considered nuisance, or false, messages; therefore, flight crews must action the appropriate checklist each time these messages appear.

Software upgrades, which eliminate the intermittent and repetitive EICAS messages for certain SECU configurations, are available from Bombardier. Refer to service bulletins (SB) 350-27-003 and SB 100-27-18.

When this situation occurs, the repetitive and intermittent nature of the messaging increases overall workload and introduces a risk that flight crews become desensitized over time, which could result in a required checklist not being carried out or completed.

This AD mandates the revision of the Airplane Flight Manual (AFM) to include a Caution and a Note to the SPOILERS FAULT (C) Non-Normal Procedures, to reinforce the importance of completing the procedure in its entirety each time the message appears.

Corrective Actions:

- A. Amend the applicable AFM in accordance with Table 1 below.

Table 1

Aeroplane Model	AFM Procedure	AFM Revision
BD-100-1A10 CH300	Non-Normal Procedures in Section 05-23	AFM CSP 100-1, Revision 61, dated 25 September 2020, or later revisions of this procedure approved by Transport Canada.
BD-100-1A10 CH350	Non-Normal Procedures in Section 05-23	AFM CH 350 AFM, Revision 27, dated 25 September 2020, or later revisions of this procedure approved by Transport Canada.

- B. Advise all flight crews of the changes introduced by the approved Transport Canada AFM Revisions listed above and thereafter operate the aeroplane accordingly.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 7 April 2021

Contact:

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