



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) to ADs.

Number: CF-2019-29
Effective Date: 26 August 2019
ATA: 27
Type Certificate: A-234

Subject:
 Flight Controls – Multi-Function Spoiler (MFS) Jam

Applicability:
 Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20788.

Compliance:
 Within 30 days from the effective date of this AD, unless already accomplished.

Background:
 Transport Canada (TC) has received notice of an in-flight event where a crew observed a SPOILER FAIL message and had difficulties maintaining roll control of the aircraft. They followed the Quick Reference Handbook (QRH) procedure for the SPOILER FAIL message, however, the aircraft experienced a heavy right-wing down roll moment when reducing speed to Vref +8 knots. Post-incident investigation revealed that uncommanded deployment of the MFS at certain positions, in combination with specific flap positions and airspeeds, can create an unacceptably high crew workload in maintaining roll control of the aeroplane.

This AD mandates the incorporation of Airplane Flight Manual (AFM) procedures that will bring the crew workload to an acceptable level during this failure scenario.

- Corrective Actions:**
- A. Amend the applicable TC approved AFM by incorporating Chapter 05 NON-NORMAL PROCEDURES – Flight Controls (section 05-23) as detailed in the table below, or later revisions of these procedures approved by TC:

Aeroplane Serial Numbers	AFM	AFM Revision Number	AFM Revision Date
20003 through 20500	CSP 100-1	Revision 55	8 April 2019
20501 through 20788	CH 350 AFM	Revision 21	8 April 2019

- B. Following incorporation of the above-mentioned procedure, advise all flight crews of these changes.

Authorization:
 For the Minister of Transport,
 ORIGINAL SIGNED BY

Daniel Gosselin
 Acting Chief, Continuing Airworthiness
 Issued on 12 August 2019



Contact:

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