



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-2020-33

Effective Date:

13 October 2020

ATA:

34

Type Certificate:

A-234

Subject:

Navigation - Flight Management System (FMS) - Wrong Magnetic Heading Displayed due to Outdated Magnetic Variation (MagVar) Tables

Applicability:

Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20407, equipped with FMC-5000 Flight Management Computers.

Compliance:

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

Background:

Outdated MagVar tables inside navigation systems can affect their performance and result in the presentation of misleading magnetic heading references on the Primary Flight Displays (PFDs) and Multi-Function Displays (MFDs) positioning the aeroplane outside of the terrain and obstacle protection provided by instrument flight procedures and flight route designs. Certain aeroplanes have navigation units with MagVar tables that are obsolete, which can lead to significantly inaccurate heading, course and bearing calculations.

This AD mandates the applicable Airplane Flight Manuals (AFMs) update to the FMS limitations to address the above-mentioned unsafe condition.

Corrective Actions:

- A. Amend the applicable Transport Canada Civil Aviation (TCCA) approved AFM by incorporating the revision to Chapter 02 – Limitations – Systems Limitations – Flight Management System (FMS), as listed in the Table 1 below:

Table 1

Aeroplane model	AFM No.	AFM Revision
BD-100-1A10 (CH-300)	CSP 100-1	Revision 58 dated 15 January 2020, or later revisions of this limitation approved by TCCA.
BD-100-1A10 (CH-300)	CSP 100-1 (METRIC)	Revision 58 dated 15 January 2020, or later revisions of this limitation approved by TCCA.

- B. Following incorporation of the above-mentioned AFM revisions, advise all flight crews of the changes introduced by these revisions and operate the aeroplane accordingly.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 29 September 2020

Contact:

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