



# AIRWORTHINESS DIRECTIVE

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*This Airworthiness Directive (AD) is issued pursuant to Civil 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-2019-10

**Effective Date:**

21 March 2019

**ATA:**

34

**Type Certificate:**

A-131

**Subject:**

Avionic System – Airplane Flight Manual Navigation System Limitations – Prohibit Editing CLIMB TO Altitudes and Use of Temperature Compensation on Flight Management System (FMS)

**Applicability:**

Bombardier Inc. model CL-600-2B16 aeroplanes, serial numbers 5301 and subsequent, equipped with FMS-6000 software version 3.3.X through to 4.X.

Note: FMS-6000 with software version 4.X is not part of the Type Certificate configuration but may have been installed via Transport Canada Civil Aviation (TCCA) STC SA09-64 or Federal Aviation Administration (FAA) STC ST01505WI-D.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

If the crew edits a CLIMB TO altitude in a departure or missed approach procedure, either manually or by activating the Temperature Compensation, the FMS will remove the database's turn direction (if any) on the following leg. The FMS will command the aircraft to turn in the wrong direction after sequencing the CLIMB TO leg if the shortest turn direction is different from the required turn direction onto the next leg. This may lead to an increase of crew workload and possible Air Traffic Control airspace violation.

This AD mandates the introduction of a Navigation System Limitation to the Airplane Flight Manual (AFM) or AFM Supplement to address the above mentioned unsafe condition.

**Corrective Actions:**

- A. Within 30 days from the effective date of this AD, amend the applicable AFM or AFM Supplement by incorporating the Navigation System Limitation to prohibit the editing of the CLIMB TO altitudes and use of Temperature Compensation on the FMS:

<b>Aeroplane Model</b>	<b>AFM Procedure</b>	<b>AFM Revision</b>
CL-600-2B16 With TCCA STC SA09-64 or FAA STC ST01505WI-D	Section - 2 Limitations - Flight Management System (FMS)	Rockwell Collins AFM Supplement ACC-09-107 Revision K or later FAA approved revisions
CL-600-2B16 With TCCA STC SA09-64 or FAA STC ST01505WI-D	Section - 2 Limitations - Flight Management System (FMS)	Rockwell Collins AFM Supplement RCA-0289 Revision H or later FAA approved revisions
CL-600-2B16	Limitations - Navigation System Limitation - Flight Management System (FMS)	AFM PSP 604-1 Revision 109, dated May 29 2018, or later revisions of this procedure approved by Transport Canada (TC)
CL-600-2B16	Limitations - Navigation System Limitation - Flight Management System (FMS)	AFM PSP 605-1 Revision 47, dated May 29 2018, or later revisions of this procedure approved by TC

- B. Within 30 days from the effective date of this AD, advise all flight crews of the changes introduced by AFM Revisions listed above.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Remy Knoerr  
Chief, Continuing Airworthiness  
Issued on 7 March 2019

**Contact:**

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