



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-2016-02

Effective Date:

20 January 2016

ATA:

22

Type Certificate:

A-131

Subject:

Auto Flight – Uncommanded Reference Airspeed Changes

Applicability:

Bombardier Inc. model CL-600-2B19, CL-600-2C10, CL-600-2D15, CL-600-2D24 and CL-600-2E25 aeroplanes, equipped with Flight Control Computer (FCC), as indicated below.

Compliance:

Within 33 months from the effective date of this AD, unless already accomplished.

Background:

There have been numerous reports of uncommanded changes in the Reference Airspeed (RAS) Bug during flight. When the Auto Flight Control System (AFCS) is in a speed mode (CLB, DES, IAS or MACH), the flight director will show vertical guidance to achieve or maintain the reference airspeed. If the autopilot is engaged, the aeroplane will automatically follow that vertical guidance and cause the aeroplane to pitch up or pitch down. Investigation revealed that this uncommanded reference airspeed changes were caused by the FCC that did not correctly read the input data from the Input/Output Concentrator. If not corrected, these uncommanded pitch changes could create hazard for continued safe flight. This AD mandates installation of a new filter to the Input/Output Circuit Card in the FCC.

Corrective Actions:

Replace the FCC from the Integrated Avionic Processor System (IAPS) in accordance with the applicable Bombardier Aerospace SB 601R-22-018, Revision A, dated 3 November 2015 or SB 670BA-22-009, original issue, dated 17 August 2015, or later revisions of these SBs approved by the Chief, Continuing Airworthiness, Transport Canada.

Installation of the affected parts on the aeroplane is limited to 12 months after the effective date of this AD. After that, it is prohibited for anyone to allow the installation of the FCC with P/Ns and S/Ns listed in Section 1A, Effectivity, of Bombardier Aerospace SB 601R-22-018, Revision A, dated 3 November 2015 or SB 670BA-22-009, original issue, dated 17 August 2015 unless number 50 is marked out on the FCC modification plate.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 6 January 2016

Contact:

Gordanko Jeremic, Continuing Airworthiness, Ottawa, telephone 1-888-663-3639, facsimile 613-996-9178 or e-mail AD-CN@tc.gc.ca or any Transport Canada Centre.