



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-2018-36
Effective Date: 10 January 2019
ATA: 34
Type Certificate: A-131

Subject:
 Navigation – Flight Instruments – Unreliable Air Data in the Cockpit

Applicability:
 Bombardier Inc. model CL-600-1A11 (600 variant), CL-600-2A12 (601 variant), and CL-600-2B16 (601-3A/3R variant) aeroplanes, serial numbers 1001 through 1085, 3001 through 3066, and 5001 through 5194.

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

Background:
 A number of in-service incidents have been reported on CL-600-2C10 aeroplanes regarding the loss of all air data system information provided to the crew. The air data system information was recovered as the aeroplanes descended to lower altitudes. An investigation determined that the root cause in both events was high altitude icing (ice crystal contamination). If not recognized and addressed, this condition may affect continued safe flight and landing.

Due to similarities in the air data systems, similar events could also occur on Bombardier Inc. CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes.

This AD mandates the incorporation of Airplane Flight Manual (AFM) procedures that will allow the crew to stabilize the aeroplane’s airspeed and attitude for continued safe flight and landing.

Corrective Actions:
 Amend the Transport Canada approved AFM by incorporating the Emergency Procedure for Unreliable Airspeed as detailed in the table below, or later revisions of these procedures approved by Transport Canada:

Aeroplane Serial Number	Airplane Flight Manual	AFM Revision	Issue Date
CL-600-1A11 (600 variant) serial numbers 1001 -1085 for non-winglets	PSP 600	Revision A110	31 August, 2018
CL-600-1A11 (600 variant) serial numbers 1001-1085 for winglets	PSP 600-1	Revision 101	31 August, 2018
CL-600-2A12 (601 variant) serial numbers 3001-3066	PSP 601-1A	Revision 125	31 August, 2018

CL-600-2A12 (601 variant) serial numbers 3001-3066 with SB 601-0360 incorporated	PSP 601-1A-1	Revision 79	31 August, 2018
CL-600-2A12 (601 variant) serial numbers 3001-3066 with -3A engine	PSP 601-1B	Revision 83	31 August, 2018
CL-600-2A12 (601 variant) serial numbers 3001-3066 with -3A engine and SB 601-0360 incorporated	PSP 601-1B-1	Revision 81	31 August, 2018
CL-600-2B16 (601-3A/3R variant) serial numbers 5001-5194	PSP 601A-1	Revision 103	31 August, 2018
CL-600-2B16 (601-3A/3R variant) serial numbers 5001-5194 with SB 601-0360 incorporated	PSP 601A-1-1	Revision 92	31 August, 2018

Following incorporation of the above mentioned procedures, advise all flight crew of the changes in the Emergency Procedures for Unreliable Airspeed.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 27 December 2018

Contact:

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