



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-2020-02R1

Effective Date:

25 August 2022

ATA:

22

Type Certificate:

A-131

Subject:

Auto Flight System – Airplane Flight Manual (AFM) Limitations and Procedures – Velocity Decay during Low Level Altitudes Capture (ALTSEL, ASEL or ALTS CAP) in One Engine Inoperative Conditions

Revision:

Supersedes AD CF-2020-02, issued 13 February 2020.

Applicability:

Bombardier Inc. aeroplanes:

Model CL-600-1A11, serial numbers 1001 through 1085,

Model CL-600-2A12, serial numbers 3001 through 3066,

Model CL-600-2B16, serial numbers 5001 through 5194.

Compliance:

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

Background:

It was determined that during ALTSEL, ASEL or ALTS CAP mode, the flight guidance/autopilot does not account for engine failure while capturing an altitude. If an engine failure occurs during or before a climb while in ALTSEL, ASEL or ALTS CAP mode, the airspeed may drop significantly below the safe operating speed. Prompt crew intervention may be required to maintain a safe operating speed.

AD CF-2020-02 mandated the introduction of a Limitation or Procedure to the AFM affecting all models, 600, 601, 604, 605 and 650, as applicable, to address the above-mentioned unsafe condition.

This AD revision, CF-2020-02R1, is required to remove applicability to aeroplane models 604, 605 and 650, as it was determined that these aeroplane models do not utilize ALTSEL, ASEL and ALTS CAP modes in their configurations. Table 1 below has been revised to remove the previous AFM references for aeroplane models 604, 605 and 650.

Corrective Actions:

- A. Amend the applicable Transport Canada approved AFM to add new Limitations or Procedures, as applicable, in accordance with Table 1 below, or later revisions of these Limitations or Procedures approved by Transport Canada.

Table 1

Aeroplane Serial Number	AFM No	AFM Revision
Model CL-600-1A11 (600 variant) Serial numbers 1001 through 1085 for non-winglets	PSP 600	AFM Revision 111, dated 22 April 2019
Model CL-600-1A11 (600 variant) Serial numbers 1001 through 1085 for winglets	PSP 600-1	AFM Revision 102, dated 22 April 2019
Model CL-600-2A12 (601 variant) Serial numbers 3001 through 3066	PSP 601-1A	AFM Revision 126, dated 22 April 2019
Model CL-600-2A12 (601 variant) Serial numbers 3001 through 3066 with Service Bulletin (SB) 601-0360 incorporated	PSP 601-1A-1	AFM Revision 80, dated 22 April 2019
Model CL-600-2A12 (601 variant) Serial numbers 3001 through 3066 with -3A engine	PSP 601-1B	AFM Revision 84, dated 22 April 2019
Model CL-600-2A12 Serial numbers 3001 through 3066 with -3A engine and SB 601-0360 incorporated	PSP 601-1B-1	AFM Revision 82, dated 22 April 2019
Model CL-600-2B16 (601-3A/3R variant) Serial numbers 5001 through 5194	PSP 601A-1	AFM Revision 104, dated 22 April 2019
Model CL-600-2B16 (601-3A/3R variant) Serial numbers 5001 through 5194 with SB 601-0360 incorporated	PSP 601A-1-1	AFM Revision 93, dated 22 April 2019

- B. Advise all flight crews of the changes introduced by the approved Transport Canada AFM Revisions listed above and thereafter operate the affected aircraft accordingly.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Philippe Ngassam
Director, National Aircraft Certification
Issued on 11 August 2022

Contact:

Philip Lynch, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca or any Transport Canada Centre.