



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2023-02-006	發布日期 Date issued	2023/2/14
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes, all serial numbers.		
主旨摘要 Subject	Flight Controls - Uncommanded Flap Extension		
<div style="text-align: center;">民航局 CAA</div> <input type="checkbox"/> 本國產品 Native product <input type="checkbox"/> 其他個案 Other	<div style="text-align: center;">設計國民航主管機構 Original Authority</div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> FAA <input type="checkbox"/> EASA <input type="checkbox"/> Brazil <input checked="" type="checkbox"/> Transport Canada Civil Aviation <input type="checkbox"/> DGAC </div> <div style="width: 45%;"> <input type="checkbox"/> Germany LBA <input type="checkbox"/> CAA-NL <input type="checkbox"/> UK CAA <input type="checkbox"/> Japan CAB <input type="checkbox"/> CAA of Israel <input type="checkbox"/> Other _____ </div> </div>		
	設計國 AD 編號 Original AD number	CF-2023-07	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ 2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 27. Please see Table 1 - SB References		

註： 1. AD 內容後附。
 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。
 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：adcaa@mail.caa.gov.tw

Note： 1. The AD text is enclosed.
 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval.
 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：adcaa@mail.caa.gov.tw



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-2023-07

Effective Date:

24 February 2023

ATA:

27

Type Certificate:

A-131

Subject:

Flight Controls – Uncommanded Flap Extension

Applicability:

Bombardier Inc. model CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

A model CL-600-2B16 aeroplane experienced an uncommanded flap extension from 0 to 45 degrees accompanied by a FLAPS FAIL caution message during climb. The aeroplane returned to the departure airport without further incident. Investigations found that the flap control system failed to arrest the uncommanded movement due to a failed retract relay. The failed retract relay also caused the flap control system to operate at half speed and this was undetected during previous flights. This condition, if not corrected, could lead to the loss of control of the aeroplane.

The root cause of the uncommanded flap extension remains under investigation. As an interim mitigation, this AD requires the initial and repeat operational tests of the flap control system to verify the functionality of the retract relays.

Corrective Actions:

Part I – Initial Operational Test of the Inboard and Outboard Flaps

Within 100 hours air time or 15 months, whichever occurs first, from the effective date of this AD, perform the initial operational test of the inboard and outboard flaps in accordance with Section 2.B. of the Accomplishment Instructions of the applicable Bombardier service bulletin (SB) identified in Table 1 below.

Table 1 – SB References

Aeroplane Model (Marketing Designation)	Aeroplane Serial Number	Applicable SB
CL-600-1A11 (Challenger 600)	1004 through 1085	600-0780, Basic Issue, dated 29 December 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2A12 (Challenger 601) and CL-600-2B16 (Challenger 601)	3001 through 3066 and 5001 through 5194	601-1112, Basic Issue, dated 29 December 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2B16 (Challenger 604)	5301 through 5665	604-27-040, Basic Issue, dated 29 December 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2B16 (Challenger 605)	5701 through 5988	605-27-011, Basic Issue, dated 29 December 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada
CL-600-2B16 (Challenger 650)	6050 through 6999	650-27-004, Basic Issue, dated 29 December 2022, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada

Part II – Repeat Operational Test of the Inboard and Outboard Flaps

- A. Applicable to models CL-600-1A11 (all serial numbers), CL-600-2A12 (all serial numbers), and CL-600-2B16 serial numbers 5001 through 5194.

Following the initial test, repeat the operational test of the inboard and outboard flaps at the repeat intervals specified in Section 1.D. and in accordance with Section 2.B of the Accomplishment Instructions of the applicable SB identified in Table 1 above.

- B. Applicable to models CL-600-2B16 serial numbers 5301 through 5665, CL-600-2B16 serial numbers 5701 through 5988, and CL-600-2B16 serial numbers 6050 through 6999.

Following the initial test, repeat the operational test of the inboard and outboard flaps at intervals of 400 hours air time in accordance with Section 2.B. of the Accomplishment Instructions of the applicable SB identified in Table 1 above.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 10 February 2023

Contact:

Danilo Verrelli, 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.