



適航指令發布單

Airworthiness Directive Issuance Form

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|---|--|---------------------|------------|
| 民航局AD編號 AD number | CAA-2024-11-009 | 發布日期 Date issued | 2024/12/09 |
| 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 and Unarrested Flap Movement | | |
| 民航局 CAA <input type="radio"/> 本國產品 Native product <input type="radio"/> 其他個案 Other | 設計國民航主管機構 Original Authority <input type="radio"/> FAA <input type="radio"/> Germany LBA <input type="radio"/> EASA <input type="radio"/> CAA-NL <input type="radio"/> Brazil <input type="radio"/> UK CAA <input checked="" type="radio"/> Transport Canada Civil Aviation <input type="radio"/> Japan CAB <input type="radio"/> DGAC <input type="radio"/> CAA of Israel <input type="radio"/> Other_____ | | |
| | 設計國AD編號 Original AD number | CF-2024-39 | |
| | 1. 直接採用原AD之內容? (Is the original AD directly adopted?) <input checked="" type="radio"/> 是(Yes) <input type="radio"/> 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="radio"/> 需要(Yes) <input checked="" type="radio"/> 不需要(No) | | |
| 備註 Note | ATA 27. please refer to Table 1 - AFM。 | | |

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,
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 Aviation Administration on Tel：(02)2349-6330 / 6332,
Fax：(02)2545-8464, 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-2024-39

Effective Date:

13 December 2024

ATA:

27

Type Certificate:

A-131

Subject:

Flight Controls – Uncommanded and Unarrested Flap Movement

Applicability:

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

Compliance:

Within 60 days from the effective date of this AD, unless already accomplished.

Background:

A model CL-600-2B16 aeroplane experienced an in-flight uncommanded, unarrested flaps movement from 0 to 45 degrees. The uncommanded movement was detected by the flaps control system and annunciated to the crew via a FLAPS FAIL caution message. The crew reduced speed and the aeroplane returned to the departure airport without further incident. The flaps control system should have stopped the flaps at 3 degrees, however, a failed retract relay prevented the system from arresting the uncommanded movement. The aircraft had flown multiple flights with the failed retract relay prior to the event, the failed relay caused the flaps to retract at half speed, but this condition went undetected. The uncommanded and unarrested flap movement, if not corrected, could lead to the loss of control of the aeroplane.

A modification of the flaps control system to reduce the occurrence of uncommanded, unarrested flaps movement is still under investigation. As an interim action, AD CF-2023-07 required repeat operational checks of the inboard and outboard flaps movement and retraction speeds.

This AD requires an Aircraft Flight Manual (AFM) update to provide flight crew with instructions to follow in the event of an uncommanded, unarrested flap movement.

Corrective Actions:

- A. Amend the applicable Transport Canada approved AFM by incorporating the procedures in accordance with Table 1 below:

Table 1 – AFM References

| Aeroplane Model (Marketing Designation) | AFM Procedure | AFM Revision |
|---|--|---|
| CL-600-1A11 (Challenger 600) | Emergency Procedures, Abnormal Procedures, Supplement 14 | Temporary Revision (TR) No. 600/35 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 600) |

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|---|--|---|
| CL-600-1A11 (Challenger 600) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 600-1/31 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 600-1) |
| CL-600-2A12 (Challenger 601) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/42 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601-1A) |
| CL-600-2A12 (Challenger 601) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/28 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601-1A-1) |
| CL-600-2A12 (Challenger 601) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/34 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601-1B) |
| CL-600-2A12 (Challenger 601) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/27 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601-1B-1) |
| CL-600-2B16 (Challenger 601-3A/3R Variants) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/39 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601A-1) |
| CL-600-2B16 (Challenger 601-3A/3R Variants) | Emergency Procedures, Abnormal Procedures, Supplement 14 | TR No. 601/41 dated June 28, 2024, or later revisions approved by Transport Canada (AFM PSP 601A-1-1) |
| CL-600-2B16 (Challenger 604 Variant)-Challenger 604 | Emergency Procedures, Abnormal Procedures, Supplement 8 | AFM PSP 604-1, Revision 133, dated June 27, 2024, or later revisions approved by Transport Canada |
| CL-600-2B16 (Challenger 604 Variant)-Challenger 605 | Emergency Procedures, Abnormal Procedures, Supplement 8 | AFM PSP 605-1, Revision 71, dated June 27, 2024, or later revisions approved by Transport Canada |
| CL-600-2B16 (Challenger 604 Variant)-Challenger 650 | Emergency Procedures, Abnormal Procedures, Supplement 8 | AFM PSP 650-1, Revision 36, dated June 27, 2024, or later revisions approved by Transport Canada |

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

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 29 November 2024

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.