



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-2025-51

Effective Date:

22 October 2025

ATA:

27

Type Certificate:

A-131

Subject:

Flight Controls – Uncommanded and Unarrested Flap Movement

Replacement:

Supersedes AD CF-2023-07.

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.

AD CF-2024-39 was issued in 2024 and required an Aircraft Flight Manual (AFM) update to provide flight crew with instructions to follow in the event of an uncommanded, unarrested flap movement.

As an interim action, AD CF-2023-07 required repeat operational checks of the inboard and outboard flaps movement and retraction speeds. This AD supersedes AD CF-2023-07.

Corrective Actions:

Within the thresholds and repeat intervals identified within the tasks, complete the Functional Tests of the Flap Extension and Retraction (Flap Half-Speed Test) and introduce the life limit for the extension and retraction relays in accordance with the new limitations contained in Airworthiness Limitation (AWL) section of the Bombardier Time Limits/Maintenance Checks (TLMC) publications identified in Table 1 below as applicable to the aeroplane model and configuration.

Compliance with superseding Temporary Revisions (TR) affecting this task or later revisions of the applicable TLMC approved by Transport Canada also meets the intent of this AD.

Table 1 – TLMC References

Aeroplane Model (Marketing Designation)	TLMC Manual	TR #	Date
CL-600-1A11 (Challenger 600)	PSP 605	TR 5-167	dated 25 February, 2025
CL-600-1A11 (Challenger 600)	PSP 605	TR 5-168	dated 25 February, 2025
CL-600-1A11 (Challenger 600)	PSP 605	TR 5-169	dated 25 February, 2025
CL-600-2A12 (Challenger 601)	PSP 601-5 CH601 TLMC	TR 5-272	dated 25 February, 2025
CL-600-2A12 (Challenger 601)	PSP 601-5 CH601 TLMC	TR 5-273	dated 25 February, 2025
CL-600-2B16 (Challenger 601-3A/3R Variants)	PSP 601A-5 CH601A TLMC	TR 5-286	dated 25 February, 2025
CL-600-2B16 (Challenger 601-3A/3R Variants)	PSP 601A-5 CH601A TLMC	TR 5-287	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 604	CL-604	TR 5-2-76	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 604	CL-604	TR 5-2-77	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 605	CL-605	TR 5-2-32	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 605	CL-605	TR 5-2-33	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 650	CL-650	TR 5-2-10	dated 25 February, 2025
CL-600-2B16 (Challenger 604 Variant)-Challenger 650	CL-650	TR 5-2-11	dated 25 February, 2025

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 8 October 2025

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