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-2025-70

Effective Date:

5 January 2026

ATA:

27

Type Certificate:

A-276

Subject:

Flight Controls – Elevator and Rudder Power Control Units (PCUs) Rod End Fractures

Replacement:

Supersedes AD CF-2023-03, issued 20 January 2023.

Applicability:

MHI RJ Aviation ULC. (MHIRJ) (formerly Bombardier Inc.) model CL-600-2B19, CL-600-2C10, CL-600-2C11, CL-600-2D15, CL-600-2D24 and CL-600-2E25 aeroplanes, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

Since the issuance of ADs CF-2023-03 and CF-2018-29 MHIRJ has identified additional PCU disconnect findings.

MHIRJ has determined that the PCU rod end spherical bearing could seize, inducing a bending moment on the PCU output rod. This repetitive bending of the rod end will eventually lead to fatigue failure.

This condition, if not corrected, could lead to a disconnect between the PCU and the elevator or rudder control surface resulting in potential loss of the control surface function or inadequate flutter suppression.

AD CF-2018-29 required detailed inspections of the rudder and elevator PCU rod ends to allow timely detection of pitting corrosion.

AD CF-2023-03 required operators to use the appropriate return-to-service tasks following short-term or prolonged and long-term storage. In addition, as applicable to the aeroplane model, AD CF-2023-03 mandated the incorporation of revised Certification Maintenance Requirement (CMR) Task 27-20-00-106 for the operational check of each individual rudder PCU. AD CF-2023-03 also mandated a new CMR Task 27-30-00-107 for the operational check of each individual elevator PCU to improve detection of potential single PCU disconnect cases for certain aeroplane models. The actions required by AD CF-2023-03 are in addition to those required by AD CF-2018-29.

This AD CF-2025-70 retains the requirements of AD CF-2023-03, which is superseded, and requires the Aircraft Maintenance Manual (AMM) Tasks 1 and 2 below be completed for operational checks of each individual Rudder PCU and for the operational test of each individual Elevator PCU to allow earlier detection of potential single PCU disconnect cases.

The changes to the inspections required by this AD, CF-2025-70, affect timing of implementation to the following:

1. AMM TASK 27−23−01−710−802 Operational Check of the Rudder PCUs
2. AMM TASK 27−33−01−710−801 Operational Test of the Elevator PCUs.

Corrective Actions:

Part I – Applicable to Model CL-600-2B19 Aeroplanes

From the effective date of this AD, if returning an aeroplane from prolonged and long-term storage, perform the return-to-service AMM Tasks 27-21-00-710-805 − Operational Test of the Rudder Control System, 27-31-00-710-803 − Operational Test of the Elevator Control System, 27-23-01-220-801 − Detailed Inspection of the Rudder PCU Rod End Spherical Ball and 27-33-01-220-801 − Detailed Inspection of the Elevator PCU Rod End Spherical Ball, in accordance with AMM Revision 66, dated 10 Oct 2022, or later revisions of these tasks.

Part II – Applicable to Model CL-600-2C10, CL-600-2C11, CL-600-2D15 and CL-600-2D24 Aeroplanes

A. For aircraft equipped with Rudder PCU Part Number (P/N) 51300-1 and Elevator PCU P/Ns 51000-7 or 51000-9, within 200 hours airtime or 3 months, whichever occurs first, from the effective date of this AD, perform AMM task 27−23−01−710−802− Operational Check of the Rudder PCUs and AMM task 27−33−01−710−801 − Operational Test of Elevator PCU in accordance with AMM Revision 71, dated 16 Dec 2022, or later revisions of this task. Thereafter, repeat these tasks every 200 hours airtime or 3 months whichever occurs first.

B. From the effective date of this AD, if returning an aeroplane from short-term storage, perform the return-to-service AMM Tasks 27-23-01-710-801 − Operational Test of the Rudder PCU and 27-33-01-710-802 − Operational Test of the Elevator PCU, in accordance with AMM Revision 71, dated 16 Dec 2022, or later revisions of these tasks.

C. From the effective date of this AD, if returning an aeroplane from prolonged and long-term storage, perform the return-to-service AMM Tasks 27-23-01-710-801 − Operational Test of the Rudder PCU, 27-33-01-710-802 − Operational Test of the Elevator PCU, 27-23-01-220-802 − Detailed Inspection of the Rudder PCU Rod End Spherical Ball and 27-33-01-220-801 − Detailed Inspection of the Elevator PCU Rod End Spherical Ball, in accordance with AMM Revision 71, dated 16 Dec 2022, or later revisions of these tasks.

Part III – Applicable to Model CL-600-2E25 Aeroplanes

A. For aircraft equipped with Elevator PCU P/Ns 51000-7 or 51000-09, within 200 hours airtime or 3 months, whichever occurs first, from the effective date of this AD, perform AMM task 27−33−01−710−801 − Operational Test of the Elevator PCU, in accordance with AMM Revision 71, dated 16 Dec 2022, or later revisions of this task. Thereafter, repeat this operational check every 200 hours airtime or 3 months whichever occurs first.

B. From the effective date of this AD, if returning an aeroplane from short-term storage, perform the return-to-service AMM Task 27-33-01-710-802 − Operational Test of the Elevator PCU, in accordance with AMM Revision 71, dated 16 December 2022, or later revisions of this task.

C. From the effective date of this AD, if returning an aeroplane from prolonged and long term storage, perform the return-to-service AMM Tasks 27-33-01-710-802 − Operational Test of the Elevator PCU and 27-33-01-220-801 − Detailed Inspection of the Elevator PCU Rod End Spherical Ball, in accordance with AMM Revision 71, dated 16 December 2022, or later revisions of these tasks.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 22 December 2025

Contact:

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