



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-2025-50

Effective Date:

22 October 2025

ATA:

27

Type Certificate:

A-177

Subject:

Flight Controls – Roll Control Input-Modules (RCIMs) Incorrect Installation

Replacement:

Supersedes AD CF-2020-35, issued 7 October 2020.

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998, and 60001 through 60184.

Compliance:

As indicated below, unless already accomplished.

Background:

There are several in-service reports of a single RCIM being installed incorrectly, and one report of both RCIMs being installed incorrectly. An investigation has determined that it is physically possible for an RCIM to be installed and zeroed 180 degrees from its intended (design) installation orientation. If both RCIMs are installed incorrectly in the same manner, a misrigging condition occurs causing the multi-function spoilers (MFSs) to deploy opposite to the roll command. Misrigging of the MFS in this manner could lead to loss of control of the aeroplane.

To reduce the likelihood of incorrect RCIM installation during maintenance, the Aircraft Maintenance Manual (AMM) has been revised with improved RCIM installation and adjustment tasks. These improved tasks provide additional guidance to ensure proper orientation of the RCIM. A new AMM functional test task was introduced to improve the robustness of post-maintenance checks to confirm proper installation of the RCIMs. AD CF-2020-35 required the use of these latest AMM procedures when performing maintenance involving one or both RCIMs.

Since then, Bombardier Inc. (BA) introduced a new RCIM design in production to prevent incorrect installation. For in-service aeroplanes, BA released Service Bulletins (SB) to replace the left-hand side (LHS) and right-hand side (RHS) RCIMs. This AD, CF-2025-XX, maintains the requirement of AD CF-2020-35, and mandates the replacement and testing of RCIMs when performing the specified maintenance tasks on any aeroplane that has RCIM Part Number (P/N) GT415-6006-5 installed.

Corrective Actions:

For the purpose of this AD, the following definitions apply:

Group A aeroplanes: BA model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998, 60005 through 60007, 60013, and 60015 through 60019.

Group B aeroplanes: BA model BD-700-1A10 and BD-700-1A11 aeroplanes with RCIM P/N GT415-6006-5 installed

Applicable BA SB: Bombardier SB for the corresponding aeroplane model and marketing designation as identified in Table 1, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part I – Adoption of AMM Procedures – Applicable to Group A aeroplanes

When performing maintenance on the RCIM, within 10 days of the effective date of AD CF 2020-35 (21 October 2020), the procedures in the following AMM tasks for the applicable aeroplane AMM must be used, with AMM Task Issue Dates of 21 February 2020 or later.

- a) Task 27-11-13-400-801 Installation of the Roll Control Input-Module
- b) Task 27-11-13-720-801 Function Test of the Roll Control Input-Module
- c) Task 27-11-13-820-801 Adjustment of the Roll Control Input-Module

Part II – Replacement and Testing – Applicable to Group B aeroplanes

If an RCIM with P/N GT415-6006-5 is faulty or failed and must be replaced, or if any maintenance actions require either a) mechanical removal of both RCIMs with P/N GT415-6006-5 from the housing or b) disconnection of both levers from their respective RCIM with P/N GT415-6006-5, before further flight, perform the following:

- A. Replace both the LHS and RHS RCIMs in accordance with Section 2B of the Accomplishment Instructions of the applicable BA SB.
- B. Perform testing to ensure the system is operational in accordance with Section 2C of the Accomplishment Instructions of the applicable BA SB.

Table 1

Model	Marketing Designation	SB	SB Issue	SB Date
BD-700-1A11	Global 5000	700-1A11-27-048	Basic	27 May, 2024
BD-700-1A11	Global 5000 ft. GVFD	700-27-5020	Basic	27 May, 2024
BD-700-1A11	Global 5500	700-27-5510	Basic	27 May, 2024
BD-700-1A10	Global 6000	700-27-6020	Basic	27 May, 2024
BD-700-1A10	Global Express & Global XRS	700-27-090	Basic	27 May, 2024
BD-700-1A10	Global 6500	700-27-6510	Basic	27 May, 2024

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 8 October 2025

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