



## 適航指令發布單

### Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2022-08-014A	發布日期 Date issued	2022/10/14
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006 through 70129.		
主旨摘要 Subject	Flight Controls - Multi-Function Spoiler - Replacement of MFS 1, MFS 2, and MFS 3 Anti-Rotation Plates		
<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-2022-47R1	
	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	Supersedes AD CF-2022-47(CAA-2022-08-014), issued 16 August 2022.		
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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> 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： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



# 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-2022-47R1

**Effective Date:**

25 October 2022

**ATA:**

27

**Type Certificate:**

A-177

**Subject:**

Flight Controls – Multi-Function Spoiler (MFS) – Replacement of MFS 1, MFS 2, and MFS 3 Anti-Rotation Plates

**Revision:**

Supersedes AD CF-2022-47, issued 16 August 2022.

**Applicability:**

Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006 through 70129.

**Compliance:**

Within 36 months from 30 August 2022, the effective date of AD CF-2022-47, unless already accomplished.

**Background:**

It has been reported that some of the MFS anti-rotation plates failed in-service due to a thin wall design. The MFS anti-rotation plates were designed with overlapping tolerances on the inside and outside diameters, allowing for an extremely thin wall thickness once machined. Failed MFS anti-rotation plates can result in wear and failure of the inboard and outboard hinge pins. Significant wear and fracture of the pins could result in that particular hinge no longer supporting the load.

AD CF-2022-47 was issued to require the inspection of all MFS anti-rotation plates for cracks and hinge bolts for any possible evidence of rotation, and the replacement of all MFS anti-rotation plates with redesigned parts.

After the release of AD CF-2022-47, it was identified that a number of aeroplanes had incorporated the Basic Issue of Bombardier Service Bulletin (SB) 700-27-7504 prior to delivery. This AD gives credit for aeroplanes that incorporated the Basic Issue of the SB prior to the effective date of this AD.

**Corrective Actions:**

In accordance with the Accomplishment Instructions of Bombardier SB 700-27-7504 Revision 1, dated 11 July 2022 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada:

- A. Remove MFS anti-rotation plates part number (P/N) G05770140-103 and P/N G05770160-101, inspect the MFS anti-rotation plates for cracks and the hinge bolts for any possible evidence of rotation. If cracks or evidence of rotation is found, contact Bombardier for an approved disposition and incorporate that disposition before further flight.
- B. Install MFS anti-rotation plates P/N G05770140-105.

Compliance with the above paragraphs of this AD, prior to the effective date of this AD, in accordance with SB 700-27-7504 Basic Issue, dated 2 March 2022, also meets the intent of this AD.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Philippe Ngassam  
Director, National Aircraft Certification  
Issued on 11 October 2022

**Contact:**

Scott W. Wales, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca](mailto:TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca) or any Transport Canada Centre.