



適航指令發布單

Airworthiness Directive Issuance Form

民航局 AD 編號 AD number	CAA-2022-04-001	發布日期 Date issued	2022/4/6
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998, and 60001 through 60046.		
主旨摘要 Subject	Landing Gear - Introduction of New Brake Accumulator Life Limit		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> 民航局 CAA <input type="checkbox"/> 本國產品 Native product <input type="checkbox"/> 其他個案 Other </div> <div style="width: 70%;"> <div style="text-align: center;">設計國民航主管機構 Original Authority</div> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <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: 50%;"> <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> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">設計國 AD 編號 Original AD number</div> <div style="width: 40%;">CF-2022-14</div> </div>		
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	Ref. See Table 1: Applicable TLMC Manuals and SBs.		

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：
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 Aeronautics Administration on Tel：(02)2349-6330 / 6332, Fax：(02)2545-8464, e-mail：
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-2022-14

Effective Date:

14 April 2022

ATA:

32

Type Certificate:

A-177

Subject:

Landing Gear – Introduction of New Brake Accumulator Life Limit

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998, and 60001 through 60046.

Compliance:

As indicated below, unless already accomplished.

Background:

Following the in-service failures of brake accumulators on other types of aeroplanes with similar components, the supplier determined the need to introduce life limits (airworthiness limitations) on three brake accumulator part numbers.

A brake accumulator surpassing this life limit could fail, resulting in loss of hydraulic pressure on the associated hydraulic system, which services the main and emergency/parking brakes on the main landing gear. Loss of either of these hydraulic systems could result in reduced or total loss of available braking, and possibly a runway excursion.

This AD requires incorporation of the life limits into the maintenance schedule, in addition to determining the number of landings already accumulated on the brake accumulators in accordance with Bombardier Service Bulletins (SBs).

Corrective Actions:

A. Within 90 days from the effective date of this AD:

- a. Amend the operator's Transport Canada approved maintenance schedule to incorporate the following tasks, as introduced in Part 2 Section 5-10-11 of the applicable Time Limits/Maintenance Checks (TLMC) manuals as identified in Table 1 below, or later revisions approved by Transport Canada:
 - i. For aeroplane serial numbers 9002 through 9998, and 60001 through 60030: Chapter 5 Task No. 32-43-37-101 Discard the No. 2 Brake Accumulator, Part No. GW415-1250-1; and
 - ii. For aeroplane serial numbers 9002 through 9998, and 60001 through 60046: Chapter 5 Task No. 32-44-05-101 Discard the No. 3 Brake Accumulator, Part No. GW415-1200-1/-3, or Discard the No. 3 Brake Accumulator, Part No. GW415-1200-3 as applicable to the aeroplane's TLMC.
- b. For all aeroplanes identified in the Applicability Section of this AD: Determine the accumulated landings on the installed No. 2 and No. 3 brake accumulators in accordance with the accomplishment instructions of the applicable SB identified in Table 1

below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada. Prior to the effective date of this AD, the use of SBs identified in Table 1 below at Basic Issue, is acceptable.

- B. Initial compliance with the above-mentioned life limits is required by the later of the following:
- Before reaching the life limits indicated in the TLMC for the above-mentioned tasks; or
 - Within 6 months from the effective date of this AD.
- C. Thereafter, replace each component before exceeding the applicable life limit indicated in the TLMC for the above-mentioned tasks.

Table 1: Applicable TLMC Manuals and SBs

Aeroplane Model and TLMC Manual	Chapter 5 Task No. 32-43-37-101 (No. 2 Brake Accumulator) TLMC Revision, dated 17 August 2020	Chapter 5 Task No. 32-44-05-101 (No. 3 Brake Accumulator) TLMC Revision, dated 11 November 2021	SB Number, Revision 1, dated 8 March 2022
BD-700-1A10 GL 700 TLMC	Revision 31	Revision 33	700-32-043
BD-700-1A10 GL XRS TLMC	Revision 18	Revision 20	700-32-043
BD-700-1A10 GL 6000 TLMC	Revision 12	Revision 14	700-32-6020
BD-700-1A10 GL 6500 TLMC	See Note 1	Revision 3	700-32-6506
BD-700-1A11 GL 5000 TLMC	Revision 22	Revision 24	700-32-5020
BD-700-1A11 GL 5000 GVFD TLMC	Revision 12	Revision 14	700-1A11-32-030
BD-700-1A11 GL 5500 TLMC	See Note 1	Revision 3	700-32-5506

Note 1: This task was present at the initial revision of the TLMC for these aeroplanes, therefore no action is required by this AD to ensure compliance.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 31 March 2022

Contact:

Daniel Gosselin, 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.