



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-2021-43

Effective Date:

13 December 2021

ATA:

57

Type Certificate:

A-236

Subject:

Wings – Slat Track Corrosion and Wear

Applicability:

Airbus Canada Limited Partnership (formerly C Series Aircraft Limited Partnership, Bombardier Inc.) aeroplanes:

Model BD-500-1A10, serial numbers 50001 and subsequent,

Model BD-500-1A11, serial numbers 55001 and subsequent.

Compliance:

As indicated below, unless already accomplished.

Background:

Corrosion and wear has been reported on the slat tracks on a number of in-service aeroplanes. An investigation determined that the likely cause was insufficient grease being applied to the slat tracks in production. Uncorrected, this corrosion and wear can lead to the loss of one or more slat panels or the loss of slat track guidance, which can cause catastrophic structural damage to the wings or other parts of the aeroplane due to slat panels departing the aeroplane.

Airbus Canada Limited Partnership has released a service bulletin (SB) to perform repeat inspections and greasing of all slat tracks. To mitigate the risks associated with slat track corrosion and wear, this AD requires the actions specified in the SB to be performed, including the collection of data required to assist the investigation and possibly develop further corrective actions.

Corrective Actions:

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

The **applicable SB** is defined as Airbus Canada Limited Partnership SB BD500-574001 Issue 001, dated 22 November 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada (TC).

The **vendor SB (VSB)** is imbedded within the applicable SB, and is defined as Spirit SB 500SHW-57-4201 Issue 001, dated 17 November 2021, or later revisions approved by the Chief, Continuing Airworthiness, TC.

- A. Clean and grease all slat tracks, inspecting as applicable and repairing any corrosion or damage found before further flight, in accordance with the applicable compliance time and scope indicated in Table 1 below.

Table 1: Compliance Time and Scope

Aeroplane Total Hours Air Time Accumulated as of the Effective Date of this AD	Compliance Time	Scope
Less than 2550	Before accumulating 2550 total hours air time, or within 850 hours air time from the effective date of this AD, whichever occurs later	Clean then grease all slat tracks in accordance with the applicable SB and only Part A of the VSB.
2550 or greater	Before accumulating 4000 total hours air time, or within 850 hours air time from the effective date of this AD, whichever occurs later	Clean then inspect and grease all slat tracks, repairing any corrosion or damage found before further flight, in accordance with the applicable SB and only Part B of the VSB.

- B. Thereafter, at intervals not to exceed 2550 hours air time, clean then inspect and grease all slat tracks, repairing any corrosion or damage found before further flight, in accordance with the applicable SB and only Part B of the VSB.
- C. Within 30 days from the inspections performed in accordance with Part B of the VSB, complete and return Appendix 1 and Appendix 2 of the VSB to Airbus Canada Limited Partnership in accordance with the instructions contained in the applicable SB and the VSB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 29 November 2021

Contact:

Hilary Ross, 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.