



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-2023-24

Effective Date:

20 April 2023

ATA:

24

Type Certificate:

A-236

Subject:

Electrical Power – Variable Frequency Generator (VFG) Power-Feeder Harness Chafing

Applicability:

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

Model BD-500-1A10, serial numbers 50010 through 50047;

Model BD-500-1A11, serial numbers 55003 through 55070.

Compliance:

Before accumulating 12 000 total hours air time, unless already accomplished.

Background:

During maintenance in service on three aeroplanes, two power-feeder harnesses were found damaged due to chafing with wheel bins. An investigation found that the harnesses were not adequately supported to protect from chafing due to vibration. Uncorrected, chafing could lead to a loss of generated power from both VFGs, or to a fire in the case of flammable fluid contact with arcing wires.

Airbus Canada Limited Partnership has released a Service Bulletin (SB) which provides instructions to modify the VFG power-feeder harness routing to prevent chafing.

Originally, the SB was implemented as a managed fleet campaign without the issuance of an AD. Before the end of this campaign, it was determined that certain aeroplanes had not been modified within the planned compliance time. This AD requires the SB to be performed on affected aeroplanes to modify the VFG power-feeder harness routing to prevent chafing.

Corrective Actions:

Modify the VFG power-feeder harness routing, in accordance with Part C of the Accomplishment Instructions of Airbus Canada Limited Partnership SB BD500-534101, Issue 007, dated 2 October 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

This paragraph gives credit for the modification of the VFG power-feeder harness routing performed before the effective date of this AD, in accordance with Part C of the Accomplishment Instructions of Issues 005 or 006 of the above-mentioned SB.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 6 April 2023

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.