



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-2022-05

Effective Date:

10 March 2022

ATA:

36

Type Certificate:

A-177

Subject:

Pneumatic – Air System – Wing Ice Protection System (WIPS) Duct Clearance Low Through Fuselage

Applicability:

Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006, 70007, 70009 through 70019, 70021 through 70029, and 70031.

Compliance:

Within 21 months from the effective date of this AD, unless already accomplished.

Background:

It was discovered in production that insufficient clearance exists between the surrounding structure/skin of the aircraft and select bleed air ducts that supply the wing ice protection system (WIPS) in the rear fuselage on the aircraft. Without sufficient clearance, the high pressure (HP) shroud could interfere with the surrounding structures and possibly compromise the HP ducting shroud's capability to provide bleed air leak routing, which could result in a bleed air leak being undetected. A significant undetected bleed air leak could expose the surrounding structure to heat stress, resulting in reduced structural integrity of the aeroplane.

This AD mandates inspection of the bleed air duct and surrounding structure, adjustment of the ductwork if clearance is below the minimum required and correction of any bleed air duct and surrounding structure damage before further flight.

Corrective Actions:

Inspect the affected bleed air ducts and adjust as required, repairing any damage as required, in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 700-36-7502 Basic Issue, dated 28 October 2020 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 24 February 2022

Contact:

Natasa Mudrinic, 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.