



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-2021-45

Effective Date:

21 December 2021

ATA:

34

Type Certificate:

A-177

Subject:

Navigation – Radio Altimeter Coaxial Cable Damaged

Applicability:

Bombardier Inc. model BD-700-2A12 aeroplanes, serial numbers 70006 through 70053.

Compliance:

Within 12 months from the effective date of this AD, unless already accomplished.

Background:

Following the display of erroneous radio altimeter data on an aeroplane in service, an investigation revealed that certain coaxial cables in the aft fuselage equipment bay had been damaged. It was concluded that these cables used by the radio altimeter systems may be susceptible to damage by personnel entering/exiting the area due to their lightweight construction and their close proximity routing to the equipment bay hatch door. Damage to or kinks in the coaxial cables could lead to signal loss or degradation, and possibly unannounced loss of terrain awareness warning system aural cues during approach.

To address this unsafe condition, this AD requires the replacement and re-routing of affected coaxial cables.

Corrective Actions:

Replace the affected coaxial cables in accordance with the Accomplishment Instructions of Bombardier Service Bulletin (SB) 700-91-7502 Revision 1, dated 31 August 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Replacement of the affected coaxial cables, before the effective date of this AD, in accordance with the Accomplishment Instructions of SB 700-91-7502 Basic Issue, dated 6 February 2020, also meets the requirements of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 7 December 2021

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.