



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-2022-40

Effective Date:

4 August 2022

ATA:

57

Type Certificate:

A-177

Subject:

Wings – Revised Non-Destructive Testing Manual Procedure for Airworthiness Limitation Task Number 57-51-00-109

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9879, 9998 and 60001 and subsequent.

Compliance:

As of the effective date of this AD, unless already accomplished.

Background:

Bombardier Inc. discovered that Non-Destructive Testing Manual (NDTM) procedure ET-57-51-009 did not contain all of the necessary instructions to fulfill the inspection requirements of its associated airworthiness limitation (AWL), which requires a special detailed inspection of the inboard, mid, and outboard flap metallic end ribs. If the inspection requirements of this AWL are not fully satisfied, there is a potential that cracks, which may have developed in this area, will go undetected. This can result in structural failure of the flap, which is considered to be an unsafe condition. Bombardier Inc. has revised the affected NDTM procedure to ensure that the inspection requirements of its associated AWL are satisfied. This AD prohibits use of the previous incomplete NDTM procedure and mandates use of the revised complete NDTM procedure in order to ensure that the safety objectives of its associated AWL are met.

Corrective Actions:

- A. Use NDTM Procedure ET-57-51-009, dated 1 March 2022 or later, when performing AWL Task Number 57-51-00-109.
- B. It is prohibited to use NDTM Procedure ET-57-51-009, dated 6 May 2019 or earlier, when performing AWL Task Number 57-51-00-109.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Robert Ferguson
Acting Director, National Aircraft Certification
Issued on 21 July 2022

Contact:

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