



# 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-2020-12

**Effective Date:**

1 May 2020

**ATA:**

26

**Type Certificate:**

A-234

**Subject:**

Fire Protection – Fire Detection – Fire Detection and Extinguishing (FIREX) Control Unit Replacement

**Applicability:**

Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20500 and 20501 through 20669, fitted with FIREX control unit part number (P/N) 474112-2.

**Compliance:**

As indicated below, unless already accomplished.

**Background:**

Bombardier has received reports of failure of the FIREX control unit P/N 474112-2. The subsequent investigation determined that the potential cause of these failures is the unit's susceptibility to internal electrical noise. The failure of this control unit may result in the loss of the ability to detect a fire.

This AD mandates the removal and replacement of FIREX control unit P/N 474112-2.

**Corrective Actions:**

**Part I – Replacement**

Within 24 months from the effective date of this AD, remove and replace the FIREX control unit P/N 474112-2 in accordance with the Accomplishment Instructions of the applicable Bombardier service bulletins (SB) listed in Table 1 below or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

**Table 1**

Aeroplane Serial Number	SB Number	Revision number	Date
20003 through 20500	100-26-01	1	5 December 2019
20501 through 20669	350-26-001	1	5 December 2019

**Part II – Prohibit Installation of Affected part**

As of the effective date of this AD, a FIREX control unit P/N 474112-2 is not eligible for installation on BD-100-1A10 aeroplanes.

**Authorization:**

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 17 April 2020

**Contact:**

Philip Lynch, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.