



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-2020-52

Effective Date:

14 December 2020

ATA:

32

Type Certificate:

A-234

Subject:

Landing Gear – Missing Secondary Locking Device on Main Landing Gear Side Stay Actuator

Applicability:

Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20780.

Compliance:

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

Background:

A review of manufacturing drawings found that there were no instructions to install lockwire on the main landing gear side stay actuator pin nut, where lockwire would normally be required to be installed. A sampling of production aircraft found lockwire installed in this location, despite the lack of instructions to do so; however, there is no guarantee that all aircraft had the lockwire installed. Installation of lockwire in this location is a double locking feature, intended to mitigate incorrect or improper torqueing of the nut, preventing a loose nut from departing the assembly. The loss of the nut, if undetected, could lead to the collapse of the affected main landing gear.

Corrective Actions:

Inspect the left-hand (LH) and right-hand (RH) main landing gear side stay actuator assembly pin nut in accordance with paragraph 2.B of the Accomplishment Instructions of the applicable service bulletin (SB) in Table 1 to check if lockwire is installed. If the lockwire is missing, install lockwire in accordance with paragraph 2.C of the Accomplishment Instructions of the applicable service bulletin (SB) in Table 1 below.

Table 1

| Aeroplane Model | SB Number | SB Revision |
|---------------------|------------|--|
| BD-100-1A10 (CL300) | 100-32-36 | Basic Issue, dated 25 June 2020 or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada |
| BD-100-1A10 (CL350) | 350-32-012 | Basic Issue, dated 25 June 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 30 November 2020

Contact:

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