



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-2021-29

Effective Date:

1 September 2021

ATA:

32

Type Certificate:

A-234

Subject:

Landing Gear – Nose Landing Gear – Nose Wheel Steering Selector Valve Slow to Deactivate

Applicability:

Bombardier Inc. model BD-100-1A10 aeroplanes, serial numbers 20003 through 20892.

Compliance:

As indicated below, unless already accomplished.

Background:

The nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. A slow SSV deactivation in combination with an un-commanded steering input could lead to a delayed transition to free castor mode and result in an aircraft runway excursion.

This AD mandates the replacement of the affected SSV part number (P/N) 41130-107 with the re-designed SSV P/N 41130-111.

Corrective Actions:

Part I – Installation and Testing of new SSV P/N 41130-111

- A. Within 36 months from the effective date of this AD, replace the SSV P/N 41130-107 with the new SSV P/N 41130-111 in accordance with Paragraph 2.B. of the Accomplishment Instructions of the applicable Bombardier Inc. Service Bulletin (SB) listed in Table 1 below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. Following the installation of the new SSV P/N 41130-111, perform the testing required by Paragraph 2.C. of the Accomplishment Instructions of the applicable Bombardier Inc. SB listed in Table 1 below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Table 1

Aeroplane Model	Service Bulletin	Date
BD-100-1A10 (CH300)	SB 100-32-35, Basic Issue	30 March 2021
BD-100-1A10 (CH350)	SB 350-32-011, Basic Issue	30 March 2021

Part II – Installation Prohibition of Affected Part

As of the effective date of this AD, the installation of SSV P/N 41130-107 on Bombardier Inc. model BD-100-1A10 aeroplanes as a replacement part is prohibited.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 18 August 2021

Contact:

Mihaela Kramer, 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.