



# AIRWORTHINESS DIRECTIVE

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*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-2023-02

**Effective Date:**

25 January 2023

**ATA:**

32

**Type Certificate:**

A-177

**Subject:**

Landing Gear – Nose Landing Gear – Steering Shutoff Valve Slow to Deactivate

**Applicability:**

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9002 through 9998 and 60001 through 60068.

**Compliance:**

Within 66 months or 3200 hours air time, whichever occurs first, from the effective date of this AD, unless already accomplished.

**Background:**

Following a runway excursion on an aeroplane of a different model, an investigation revealed that the nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. A similar SSV is installed on the aeroplanes subject to this AD. In the event of an un-commanded steering input, a slow SSV deactivation could lead to a delayed transition to free castor mode and result in an aircraft runway excursion.

To correct this unsafe condition, this AD mandates the replacement of the affected SSV with a re-designed SSV, which has an improved response time.

**Corrective Actions:**

- A. Replace the SSV part number (P/N) 23600-101 with SSV P/N 23600-103 in accordance with the Accomplishment Instructions of the applicable Bombardier Service Bulletin (SB) listed in Table 1 below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
- B. This paragraph gives credit for the completion of the SSV replacement, indicated in Paragraph A of this AD, before the effective date of this AD, in accordance with the Accomplishment Instructions of the applicable Bombardier SBs listed in Table 1 below at the Basic Issue, dated 24 November 2022.

**Table 1: SB References**

<b>Aeroplane Model</b>	<b>Bombardier SB</b>	<b>Issue Date</b>
BD-700-1A10	700-32-044, Revision 1	7 December 2022
BD-700-1A10	700-32-6021, Revision 1	7 December 2022
BD-700-1A10	700-32-6507, Revision 1	7 December 2022
BD-700-1A11	700-1A11-32-031, Revision 1	7 December 2022
BD-700-1A11	700-32-5021, Revision 1	7 December 2022
BD-700-1A11	700-32-5507, Revision 1	7 December 2022

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Jenny Young  
 Chief, Continuing Airworthiness  
 Issued on 11 January 2023

**Contact:**

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