



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-2023-34

Effective Date:

8 June 2023

ATA:

05

Type Certificate:

A-234

Subject:

Time Limits/Maintenance Checks – Introduction of Certification Maintenance Requirement (CMR) Task

Applicability:

Bombardier Inc. model BD-100-1A10 aeroplanes, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

Bombardier introduced changes to the Time Limits/ Maintenance Check (TLMC) manual Part 2 wherein new CMR Task 27-40-00-108** was added for the Restoration (Inspection) of the Horizontal Stabilizer Trim-Actuator, Part No. C47100-003 and subs. CMR Task 27-40-00-104*, Restoration (Overhaul) of the Horizontal-Stabilizer Trim-Actuator (HSTA), Part No. C47100-004 and subs was revised to add a flight cycle limitation. Time Limits-Supplementary Limitation Task 27-41-05-104*, Restoration (Overhaul) of the Horizontal Stabilizer Trim Actuator (HSTA), Part No.C47100-004/-005 was also revised to add a flight hours limitation.

If the new/revised tasks are not performed at the required intervals, failures or degradation of the HSTA and motor brake assembly could remain undetected and could result in the loss of control of the aeroplane.

Corrective Actions:

1. Within 60 days from the effective date of this AD, incorporate, according to the aeroplane model, the tasks identified in Table 1 or Table 2 below, in the appropriate chapter within Part 2 of the TLMC manuals.
2. Perform the new and revised tasks at their respective threshold and intervals.

Note 1: For the purpose of this AD, the thresholds and intervals as defined in the Part 2 of the Bombardier TLMC include specific initial compliance times (phase-in periods) for certain tasks.

Table 1: New Tasks for Aeroplane Model BD-100-1A10 (Challenger 300)

Chapter 5 Task Number	Task Title	TLMC Chapter	BD-100 TLMC
27-40-00-108**	Restoration (Inspection) of the Horizontal Stabilizer Trim-Actuator, Part No. C47100-003 and subs	5-10-40	TR 5-2-102, dated 31 January 2023
27-40-00-104*	Restoration (Overhaul) of the Horizontal-Stabilizer Trim-Actuator (HSTA), Part No. C47100-004 and subs	5-10-40	Dated 14 June 2022
27-41-05-104*	Restoration (Overhaul) of the Horizontal Stabilizer Trim Actuator (HSTA), Part No.C47100-004/-005	5-10-20	Dated 14 June 2022

Table 2: New Tasks for Aeroplane Model BD-100-1A10 (Challenger 350)

Chapter 5 Task Number	Task Title	TLMC Chapter	BD-100 TLMC
27-40-00-108**	Restoration (Inspection) of the Horizontal Stabilizer Trim-Actuator, Part No. C47100-003 and subs	5-10-40	TR 5-2-31, dated 31 January 2023
27-40-00-104*	Restoration (Overhaul) of the Horizontal-Stabilizer Trim-Actuator (HSTA), Part No. C47100-004 and subs	5-10-40	Dated 14 June 2022
27-41-05-104*	Restoration (Overhaul) of the Horizontal Stabilizer Trim Actuator (HSTA), Part No.C47100-004/-005	5-10-20	Dated 14 June 2022

Compliance with superseding Temporary Revisions (TRs) affecting these tasks or later revisions of the TLMC approved by Transport Canada also meets the intent of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 25 May 2023

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