



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-2024-16

Effective Date:

6 June 2024

ATA:

05

Type Certificate:

A-131

Subject:

Time Limits/Maintenance Checks (TLMC) – Airworthiness Limitations (AWL)

Applicability:

Bombardier Inc. model CL-600-1A11, CL-600-2A12, CL-600-2B16 aeroplanes, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

The AWL for the Challenger 600, Challenger 601, Challenger 604, Challenger 605 and Challenger 650 aeroplanes are defined and published in the Bombardier TLMC publications, approved by Transport Canada Civil Aviation (TCCA). The instructions contained in Part 2, AWL of the TLMC publication have been identified as mandatory actions for continued airworthiness. Failure to comply with these instructions could result in an unsafe condition.

Bombardier has introduced changes to Part 2, AWL of Challenger 600, Challenger 601, Challenger 604, Challenger 605 and Challenger 650 TLMC publications wherein new tasks have been added and a number of existing tasks have been revised to become more restrictive.

This AD requires completion of the new or more restrictive limitations within their thresholds and repeat intervals or within the discard time as applicable.

Corrective Actions:

As of the effective date of this AD, ensure that the new or more restrictive limitations contained in Part 2 AWL of the Bombardier TLMC publications identified in Table 1 below and in the temporary revisions (TRs) identified in Table 2 below are completed within the thresholds and repeat intervals or discard time identified within the tasks.

Note 1: The new or more restrictive limitations may be incorporated within the operator's approved maintenance schedule provided they are identified, for the purpose of traceability, with this AD CF-2024-16. This action ensures the tasks are performed as required by the applicable TLMC. Consequently, after incorporation of the new or more restrictive limitations in the operator's approved maintenance schedule, it is not necessary to record the demonstration of AD compliance after accomplishing each individual task/action on a continued basis.

Tolerances or deviations to the tasks identified with * (one star) in TLMC Part 2 AWL are prohibited without TCCA approval.

Tolerances or deviations to the tasks identified with ** (two stars) in TLMC Part 2 AWL are allowed and can be adjusted in accordance with the operator's approved escalation practices or an approved reliability program. The task cannot be changed or deleted without prior approval from the local airworthiness authority's aircraft certification office.

Certification Maintenance Requirements (CMR) allowable extensions identified in the Challenger 604, Challenger 605 and Challenger 650 TLMC (section 05-10-40) for * (one star) and ** (two stars) tasks are allowed.

Note 2: For the purpose of this AD, the following phase-in can be applied to task 27-42-01-110** Special Detailed Inspection of the Horizontal Stabilizer Trim Actuator (HSTA), Part Number (P/N).604-92305-7 and Subs (Vendor P/N 8454-3 and Subs) * for aeroplanes: Challenger 604 and Challenger 605

1. For HSTA that were reworked to P/N 604-92305-7 (Vendor P/N 8454-3) from either P/N 604-92305-3 (Vendor P/N 8454-1) or P/N 604-92305-5 (Vendor P/N 8454-2) per AD CF-2013-18, perform task 27-42-01-110 within 12 years from the date of the rework.
2. Within 12 years from entry into service for HSTA P/N 604-92305-7 (Vendor P/N 8454-3) manufactured before 1 November 2015, perform task 27-42-01-110.

Note 3: For the purpose of this AD, “the new and more restrictive limitations” include tasks and limitations that are new and all tasks and limitations for which a threshold or repeat interval was reduced, or inspection method was changed, or discard time was reduced and, which were added or revised in the TLMC revisions listed in Table 1 and Table 2.

Table 1: Aeroplane Model CL-600-1A11, CL-600-2A12, CL-600-2B16 TLMC Manual Revision

Aeroplane model (Marketing Designation)	Publication	Aeroplane Serial Number	Revision	Date
CL-600-1A11 (CL-600) (Challenger 600)	PSP 605 TLMC	1004 through 1085	Revision 39	8 January 2018
CL-600-2A12 (CL-601) (Challenger 601)	PSP 601-5 TLMC	3001 through 3066	Revision 46	8 January 2018
CL-600-2B16 (CL-601-3A) (Challenger 601) & CL-600-2B16 (CL-601-3R) (Challenger 601)	PSP 601A-5 TLMC	5001 through 5134	Revision 42	8 January 2018
		5135 through 5194		
CL-600-2B16 (Challenger 604)	CH 604 TLMC	5301 through 5665	Revision 33	22 November 2022
CL-600-2B16 Challenger 605)	CH 605 TLMC	5701 through 6049	Revision 22	22 November 2022
CL-600-2B16 (Challenger 650)	CH 650 TLMC	6050 and subs	Revision 9	22 November 2022

Table 2: Aeroplane Model CL-600-1A11, CL-600-2A12, CL-600-2B16 TRs

Aeroplane model (Marketing Designation)	Publication	Aeroplane Serial Number	TR	Date
CL-600-1A11 (CL-600) (Challenger 600)	PSP 605 TLMC	1004 through 1085	5-164	23 December 2022
			5-165	25 October 2023
CL-600-2A12 (CL-601) (Challenger 601)	PSP 601-5 TLMC	3001 through 3066	5-268	23 December 2022
			5-269	25 October 2023
CL-600-2B16 (CL-601-3A) (Challenger 601) & CL-600-2B16 (CL-601-3R) (Challenger 601)	PSP 601A-5 TLMC	5001 through 5134 & 5135 through 5194	5-282	23 December 2022
			5-283	25 October 2023
CL-600-2B16 (Challenger 604)	CH 604 TLMC	5301 through 5665	5-2-73	25 October 2023
CL-600-2B16 (Challenger 605)	CH 605 TLMC	5701 through 6049	5-2-29	25 October 2023
CL-600-2B16 (Challenger 650)	CH 650 TLMC	6050 and subs	5-2-5	16 October 2023

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 23 May 2024

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.