



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-2023-65

Effective Date:

17 October 2023

ATA:

05

Type Certificate:

A-177

Subject:

Time Limits/Maintenance Checks (TLMC) – TLMC Manual Revision to Introduce New or Revised Tasks Affecting the Main Landing Gear (MLG), Nose Landing Gear (NLG) and Pitch Trim Actuator

Applicability:

Bombardier Inc. model BD-700-1A10 and BD-700-1A11 aeroplanes, serial numbers 9001 through 9879, 9998 and 60001 through 60065.

Compliance:

As indicated below, unless already accomplished.

Background:

The Airworthiness Limitations (AWL) for the BD-700-1A10 and BD-700-1A11 aeroplanes are defined and published in the Bombardier TLMC publication, approved by Transport Canada (TC). The AWL instructions contained in the TLMC publication have been identified as mandatory actions for continued airworthiness. Failure to comply with these instructions could result in an unsafe condition.

Tasks have been introduced as new or have changed in interval or scope relative to previous TLMC revisions resulting in new or more restrictive requirements. For the reason stated above, this AD mandates incorporation and accomplishment of the new or revised TLMC tasks identified below.

Corrective Actions:

For the purpose of this AD, the following definitions apply:

Tasks Package 1: TLMC tasks listed in Table 1.

Tasks Package 2: TLMC tasks listed in Table 2.

Tasks Package 3: TLMC tasks listed in Table 3.

Tasks Package 4: TLMC tasks listed in Table 4.

1. Within 60 days from the effective date of this AD, amend the TC approved maintenance schedule to incorporate tasks packages 1 through 4, as introduced in the TLMC manuals identified in Table 5, or later revisions approved by TC.
2. Initial compliance with New or Revised TLMC tasks part of tasks packages 1, 2 and 3 is required before reaching the time limits indicated in the TLMC manuals identified in Table 5, or later revisions approved by TC.
3. Initial compliance with New or Revised TLMC tasks part of tasks package 4 is required by the following:
 - a. Task 32-33-01-111: in conjunction with the next accomplishment of task 32-20-00-208 (Detailed Inspection of the Sliding Tube (Internal), Steering and Axle Assembly);

- b. Task 32-33-01-112: is required by either of the following, whichever occurs first:
- Before accumulating 1500 hours air time from the effective date of this AD;
 - Before accumulating 1500 landings since last accomplishment of task 32-33-01-111, or before accumulating 1500 total landings if task 32-33-01-111 has not been accomplished as of the effective date of this AD.
4. Thereafter, repeat the abovementioned TLMC tasks at the intervals specified in the applicable TLMC manuals identified in Table 5, or later revisions approved by TC.

Table 1: New Life Limits for Certain MLG and NLG Components (Tasks Package 1)

Chapter 5 Task No.	Task Title	Manual Affected Section
32-11-17-106	Discard the Main Landing Gear (MLG) Side-Stay Upper-Pin, Part No. GM227-1725	5-10-10 or 5-10-90 as applicable
32-21-01-103	Discard the Nose Landing Gear (NLG) Shock Strut Main Fitting, Part No. 1286-0101/-0109	5-10-10 or 5-10-90 as applicable
32-21-01-107	Discard the Nose Landing Gear (NLG) Shock Strut Retraction Actuator Bolt, Part No. 1285-0007/-0041	5-10-10 or 5-10-90 as applicable
32-21-01-108	Discard the Nose Landing Gear (NLG) Shock Strut Steering Actuator Bolt, Part No. 1285-0010	5-10-10 or 5-10-90 as applicable
32-21-05-107	Discard the Nose Landing Gear (NLG) Drag Brace Forward Stabilizer Link, Part No. 22580	5-10-10 or 5-10-90 as applicable
32-21-05-108	Discard the Nose Landing Gear (NLG) Drag Brace Aft Stabilizer Link, Part No. 22585	5-10-10 or 5-10-90 as applicable
32-32-01-105	Discard the Main Landing Gear (MLG) Retraction Actuator Assembly, Part No. 21600	5-10-90
32-32-05-107	Discard the Main Landing Gear (MLG) Uplock Assembly, Part No. 21900	5-10-90
32-33-01-105	Discard the Nose Landing Gear (NLG) Retraction Actuator Assembly, Part No. 22400-101/-103	5-10-90
32-33-05-106	Discard the Nose Landing Gear (NLG) Uplock Assembly, Part No. 22600-101/-103	5-10-90

Table 2: Shock Strut Axle and Service Door (Tasks Package 2)

Chapter 5 Task No.	Task Title	Manual Affected Section
32-21-01-101	Discard the Nose Landing Gear (NLG) Shock Strut Axle, Part No. 1286-0201/-0203/-0204	5-10-10 or 5-10-90 as applicable
53-20-00-122	Detailed Inspection of the Machined Fittings and Skin Around the Service Door, FS295.00 to FS310.00 and STR22R to STR24R	5-10-30
53-20-00-140	Detailed Inspection of the External Skin Around the Service Door Cutout, FS295.00 to FS310.00 and STR22R to STR24R	5-10-50

Table 3: New Pitch Trim Actuator Task (Tasks Package 3)

Chapter 5 Task No.	Task Title	Manual Affected Section
27-41-09-107	Restoration of the Pitch Trim Actuator, Part No. GT412-4001-7	5-10-20

Note 1: task 27-41-09-107 replaces task 27-41-09-105, which is no longer required.

Table 4: New Task Affecting NLG Shock Strut Assy to Retraction Actuator Fitting Joint (Tasks Package 4)

Chapter 5 Task No.	Task Title	Manual Affected Section
32-33-01-111	Restoration of the Nose Landing Gear (NLG) Shock-Strut Assembly to Retraction-Actuator Main-Fitting Joint	5-10-20
32-33-01-112	Detailed Inspection of the Nose Landing Gear (NLG) Shock-Strut Assembly to Retraction-Actuator Main-Fitting Joint	5-10-20

Table 5: Applicable TLMC Manuals by Tasks Package

Aeroplane Model and TLMC Manual	Tasks Package 1 Introduction TLMC Revision, dated 11 November 2021	Tasks Package 2 Introduction TLMC Revision, dated 11 November 2021	Tasks Package 3 Introduction TLMC Revision, dated 1 March 2022	Tasks Package 4 Introduction TLMC Temporary Revision, dated 17 August 2022
BD700-1A10 BD-700 TLMC	Rev 33	Rev 33	Rev 34	TR 5-2-52
BD700-1A10 GL XRS TLMC	Rev 20	Rev 20	Rev 21	TR 5-2-14
BD700-1A10 GL 6000 TLMC	Rev 14	Rev 14	Rev 15	TR 5-2-19
BD700-1A10 GL 6500 TLMC	See note 2	Rev 3	Rev 4	TR 5-2-2
BD700-1A11 GL 5000 TLMC	Rev 24	Rev 24	Rev 25	TR 5-2-20
BD700-1A11 GL 5500 TLMC	See note 2	Rev 3	Rev 4	TR 5-2-2
BD700-1A11 GL 5000 GVFD TLMC	Rev 14	Rev 14	Rev 15	TR 5-2-19

Note 2: Tasks were present at the initial revision of the TLMC manuals for these aeroplanes, therefore no action is required by this AD to ensure compliance.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

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Issued on 3 October 2023

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