



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) to ADs.

Number:

CF-2018-03

Effective Date:

2 February 2018

ATA:

35

Type Certificate:

A-131

Subject:

Oxygen System – Cabin Crew and Lavatory Oxygen Masks Deployed Tangled

Applicability:

Bombardier Inc. aeroplanes:
Model CL-600-2B19, serial numbers (S/N) 7003 and subsequent;
Model CL-600-2C10, S/N 10003 and subsequent;
Model CL-600-2D15/CL-600-2D24, S/N 15001 and subsequent;
Model CL-600-2E25, S/N 19001 and subsequent.

Compliance:

As indicated below, unless already accomplished.

Background:

After an in-service cabin oxygen masks deployment on a CL-600-2D24 aeroplane, the crew noted that the forward and aft flight attendant oxygen masks did not deploy correctly. The oxygen hoses were tangled with the pull lanyard and cordage from the oxygen box assemblies. Investigation found the same condition on other aeroplanes. The similarly designed lavatory oxygen box assembly is also affected. It was determined that packing instructions for these oxygen box assemblies were incorrect. If not corrected, inappropriately packed oxygen box assemblies resulting in incorrectly deployed oxygen masks can cause occupant distress and delayed access to oxygen supply during a high altitude emergency.

This AD mandates the repacking of the forward flight attendant, aft flight attendant, and lavatory oxygen box assemblies and the installation of a revised packaging placard.

Corrective Actions:

Part I - Repacking and modification of oxygen box assemblies: applicable to model CL-600-2B19 aeroplanes equipped with Oxygen Box Assemblies part numbers (P/Ns) 3868301 and 3868302 with C&D Zodiac Aerospace Service Bulletin 3868303-25-A-01 installed, and 3868303.

Within 8800 hours air time or 48 months, whichever occurs first, from the effective date of this AD, repack the lavatory oxygen box assembly, replace the packaging placard, and re-identify the assembly in accordance with the accomplishment instructions of Bombardier Service Bulletin (SB) 601R-35-021, dated 30 October 2017, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part II - Repacking and modification of oxygen box assemblies: applicable to aeroplane models CL-600-2C10, S/N 10003 through 10346; model CL-600-2D15/CL-600-2D24, S/N 15001 through 15436; and model CL-600-2E25, S/N 19001 through 19055 equipped with Oxygen Box Assemblies P/Ns 9324601[]505/507/509/511; 9324614[]505/509; D114601[]501/503/505/507/509; D114602[]503/507/511; and D114603[]501, where “[]” indicates the décor finish code letters.

Within 8800 hours air time or 48 months, whichever occurs first, from the effective date of this AD, repack the forward flight attendant, aft flight attendants, and lavatory oxygen box assemblies, replace the packaging placard, and re-identify each assembly in accordance with the accomplishment instructions of Bombardier SB 670BA-35-015, dated 30 October 2017, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Part III - Maintenance Tasks: applicable to models CL-600-2C10, CL-600-2D15, CL-600-2D24, and CL-600-2E25 aeroplanes

After accomplishment of Part II of this AD, if applicable, or within 30 days, whichever occurs later, from the effective date of this AD, it is prohibited to operate the aeroplane with oxygen box assemblies packed using the following Bombardier Aircraft Maintenance Manual (AMM) tasks for aeroplane models CL-600-2C10, CL-600-2D15, CL-600-2D24, and CL-600-2E25:

Superseded AMM Task Number	Superseded AMM Task Subject
35-21-13-860-802	Repack and Stowage of the Flight Attendant Oxygen Mask
35-21-17-860-802	Repack of the Passenger Mask in the Lavatory

Note: the above-mentioned AMM tasks have been replaced by the following tasks:

Replacement AMM Task Number	Replacement AMM Task Subject
35-21-13-860-804	Repack and Stowage of the Forward and Aft Flight Attendant Oxygen Mask
35-21-13-860-806	Repack and Stowage of the Third Flight Attendant Oxygen-Mask
35-21-17-860-803	Repack of the Passenger Mask in the Lavatory

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Craig McAllister
Acting Chief, Continuing Airworthiness
Issued on 19 January 2018

Contact:

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