



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-2022-50

Effective Date:

8 September 2022

ATA:

35

Type Certificate:

A-131

Subject:

Oxygen – Passenger Oxygen System – Oxygen Dispensing Unit Lanyards Excessively Long

Applicability:

Bombardier Inc. model CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes, serial numbers as indicated in Section 1.A. Effectivity of the applicable service bulletin (SB) listed in Table A of this AD.

Compliance:

Within 5 years from the effective date of this AD, unless already accomplished.

Background:

Passenger mask dispensing units (MDUs) installed in the affected aeroplanes could have lanyards which are too long. This condition, if not corrected, could result in the inability to initiate the flow of oxygen to the mask when required in an emergency situation.

In addition, there will be no indication to the passenger that they are not receiving oxygen.

This AD mandates the replacement of the affected MDU with a unit that meets the necessary ergonomic specifications related to the specific aeroplane configuration.

Corrective Actions:

Part I – Special Check for Validation of Replacement Mask Suitability

Verify the drop-down oxygen box part numbers (P/Ns) in accordance with Section 2.B. of the Accomplishment Instructions of the applicable SB listed in Table A below:

- a. If the drop-down oxygen box P/Ns installed on the aeroplane match any of the P/Ns listed in Table 1 of Section 2.B. of the applicable SB, proceed to Part II of this AD.
- b. If the P/N of the drop-down oxygen box assemblies installed on the aeroplane is not found in Table 1 of Section 2.B. of the applicable SB, contact Bombardier Inc. for assistance.

Part II – Drop-Down Oxygen Mask Testing

Perform the drop-down oxygen mask reach testing in accordance with Section 2.B.(2) of the Accomplishment Instructions of the applicable SB listed in Table A below.

- a) If the test result is PASS, proceed to Part III of this AD.
- b) If the test result is FAIL for any individual seat, mark the failed seat as inoperative in accordance with Section 2.B.(3) of the applicable SB listed in Table A below.

Part III – Replacement of the Oxygen Mask

1. Remove and replace the drop-down oxygen box assembly in accordance with Section 2.C. of the applicable SB listed in Table A below.

2. Test the passenger oxygen supply system in accordance with Section 2.D.(2) of the applicable SB listed in Table A below.

Table A

Aeroplane Model	Variant	SB
CL-600-1A11	600	SB 600-0777, SPECIAL CHECK/MODIFICATION – PASSENGER OXYGEN SUPPLY SYSTEM – VALIDATION AND MODIFICATION FOR INCORRECT LANYARD LENGTH OF THE PASSENGER OXYGEN MASK, Basic Issue, dated 13 December 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
CL-600-2A12	601-1A	SB 601-1109, SPECIAL CHECK/MODIFICATION – PASSENGER OXYGEN SUPPLY SYSTEM – VALIDATION AND MODIFICATION FOR INCORRECT LANYARD LENGTH OF THE PASSENGER OXYGEN MASK, Basic Issue, dated 13 December 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
CL-600-2B16	601-3A/-3R	SB 601-1109, SPECIAL CHECK/MODIFICATION – PASSENGER OXYGEN SUPPLY SYSTEM – VALIDATION AND MODIFICATION FOR INCORRECT LANYARD LENGTH OF THE PASSENGER OXYGEN MASK, Basic Issue, dated 13 December 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.
CL-600-2B16	604	SB 604-35-007, SPECIAL CHECK/MODIFICATION – PASSENGER OXYGEN SUPPLY SYSTEM – VALIDATION AND MODIFICATION FOR INCORRECT LANYARD LENGTH OF THE PASSENGER OXYGEN MASK, Basic Issue, dated 13 December 2021, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Philippe Ngassam
Director, National Aircraft Certification
Issued on 25 August 2022

Contact:

Philip Lynch, 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.