



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-2021-13

Effective Date:

15 April 2021

ATA:

30

Type Certificate:

A-131

Subject:

Ice and Rain Protection – Potable Water Line Ribbon Heater Fire Risk

Applicability:

Bombardier Inc. model CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes, equipped with Cox & Co. 3043 or 3044 series ribbon heater(s).

Compliance:

Within 6 years from the effective date of this AD, unless already accomplished.

Background:

Bombardier Inc. has investigated an event where evidence of smoke was detected in the aft cabin during a maintenance activity. This event was determined to be caused by a faulty drain line ribbon heater. The ribbon heater lead wires were found to have been installed with the lead wire termination reversed, which, in combination with a ribbon heater ground fault, led to a continuous ribbon heater heating condition. This condition, if not corrected, could result in an onboard fire.

This AD mandates an inspection of all affected potable water-line ribbon heater installations for insulation and ribbon heater damage and the required corrective action to address the above-mentioned unsafe condition.

Corrective Actions:

Inspect all affected ribbon heater installations for insulation and ribbon heater damage, replace insulation and ribbon heaters, as required, identify ribbon heater lead wires, and add a fuse on the power lead of all affected ribbon heater installations, in accordance with the applicable Bombardier (BA) Service Bulletin (SB) referenced in Table 1 below, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

Table 1: SB References

Aeroplane Model	BA SB
CL-600-2A12	SB 601-0644 Revision 1, dated 29 January 2019
CL-600-2B16	SB 601-0644 Revision 1, dated 29 January 2019
CL-600-2B16	SB 604-30-007 Revision 1, dated 29 January 2019

For aeroplanes with a serial number not listed in the above SBs that have incorporated Cox & Co. 3043 or 3044 series ribbon heaters using BA Engineering instructions in lieu of an Supplemental Type Certificate (STC), contact BA Engineering (SRPSA@aero.bombardier.com) for assistance. BA will provide means to inspect the affected ribbon heater installation for damage and will provide instructions to correct the ribbon heater installation.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Rémy Knoerr
Chief, Continuing Airworthiness
Issued on 1 April 2021

Contact:

Craig McAllister, 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.