



**適航指令發布單**  
**Airworthiness Directive Issuance Form**

民航局 AD 編號 AD number	CAA-2021-04-004	發布日期 Date issued	2021/4/8
適用之航空產品 Applied to (models, serial numbers or part numbers, as applicable)	model CL-600-1A11, CL-600-2A12 and CL-600-2B16 aeroplanes, equipped with Cox & Co. 3043 or 3044 series ribbon heater(s).		
主旨摘要	Ice and Rain Protection – Potable Water Line Ribbon Heater Fire Risk		
民航局 CAA <input type="checkbox"/> 本國產品 Native products <input type="checkbox"/> 其他個案 Other	設計國民航主管機構 Original Authorities <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> FAA  <input type="checkbox"/> EASA  <input type="checkbox"/> Brazil  <input checked="" type="checkbox"/> Transport Canada Civil Aviation  <input type="checkbox"/> DGAC             </div> <div> <input type="checkbox"/> Germany LBA  <input type="checkbox"/> CAA-NL  <input type="checkbox"/> UK CAA  <input type="checkbox"/> Japan CAB  <input type="checkbox"/> CAA of Israel  <input type="checkbox"/> Other _____             </div> </div>		
	設計國 AD 編號 Original AD number	CF-2021-13	
	1. 直接採用原 AD 之內容?(Is the original AD directly adopted?) <input checked="" type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No) _ a. 生效日期另訂為(Re-specify the effective date as) : _____ b. 執行時限另訂為(Re-specify the compliance time or period as) : _____ <input type="checkbox"/>		
	2. 使用人是否需要將 AD 執行結果向民航局提出報告?(Do <input type="checkbox"/> Users need to report the status of compliance to the CAA?) <input type="checkbox"/> 是(Yes) <input checked="" type="checkbox"/> 否(No)		
備註 Note	ATA 30, SB References:SB 601-0644 Revision 1, dated 29 January 2019 and SB 604-30-007 Revision 1, dated 29 January 2019.		
註： 1. AD 內容後附。 2. 航空器產品使用人得向民航局提出豁免、替代符合方法、執行時限之展延之申請。 3. 如有任何問題，請聯絡交通部民用航空局初始適航科。Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a> Note： 1. The AD text is enclosed. 2. Exemption, an alternative method of compliance or adjustment of the compliance time may be proposed to the CAA for approval. 3. For further information, please contact Civil Aeronautics Administration on Tel：(02)2349-6331~3, Fax：(02)2545-8464, e-mail： <a href="mailto:adcaa@mail.caa.gov.tw">adcaa@mail.caa.gov.tw</a>			



# 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](mailto: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](mailto:TC.AirworthinessDirectives-Consignesdenavigabilite.TC@tc.gc.ca) or any Transport Canada Centre.